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A NEW SPECIES OF *LEPANTHES* (PLEUROTHALLIDINAE) IN HONOUR OF “BACHUÉ”, THE MYTHOLOGICAL MOTHER OF THE INDIGENOUS MUISCA PEOPLE

EDICSON PARRA-SÁNCHEZ^{1,5}, SEBASTIÁN VIEIRA-URIBE^{2,3} & JUAN SEBASTIÁN MORENO^{2,4}

¹University of Sheffield, School of Biosciences, Alfred Denny Building,
Western Bank Sheffield, S10 2TN, UK.

²Grupo de Investigación Schultes, Fundación Ecotonos, Carrera 72 # 13A-56, Cali, Colombia.

³Grupo de Investigación en Biodiversidad Tropical - GIBIOT, Jardín Botánico de Medellín,
Calle 73 # 51D-14. Medellín, Colombia.

⁴Departamento de Biología, Universidad del Valle, Calle 13 # 100-00, Cali, Colombia.

⁵Author for correspondence: edicsonparras@gmail.com

ABSTRACT. During an expedition in which we randomly placed 341 plots across a large elevation range (1100–3880 m) and spatial gradient (~270 km) in the Eastern Cordillera, we found a new species of the genus *Lepanthes* in Santuario de Fauna y Flora de Iguaque, Boyaca, Colombia. We propose *L. bachue* as a new species that is most similar to *L. papallactae* but it differs in its proliferous plants (*vs.* non proliferous), the petals with the upper lobe 2.5 mm long, the lower lobe 4.5 mm long, larger than the upper one, and the margins fimbriate (*vs.* lobes subequal, 4.5 mm long and shortly pubescent) and the lip with the blades oblong, sub-sigmoid, adnate to the middle of the column with a short oblong, bifid, an appendix hiding in the middle (*vs.* blades narrowly elliptical-oblong, adnate to the column above the middle with a recurved pedunculate, biglandular appendix). Our extensive sampling across different areas suggests that this species is geographically restricted and highly specialized in terms of habitat. Thus, it is urgent to protect its natural habitat and population.

RESUMEN. En expediciones en la Cordillera Oriental, durante un muestreo aleatorio de 341 cuadrantes a lo largo de un amplio gradiente elevacional (1100–3880 m) y geográfico (~270 km), encontramos una especie nueva del género *Lepanthes* en el Santuario de Fauna y Flora de Iguaque, Boyacá, Colombia. Proponemos *L. bachue* como especie nueva similar a *L. papallactae* pero difiere por su crecimiento prolifero (*vs.* no prolifero), el lóbulo superior del labelo de 2.5 mm de largo, el lóbulo inferior 4.5 mm de largo, más largo que el lóbulo superior, y márgenes fimbriados (*vs.* lobulos de tamaño similar, 4.5 mm de largo cortamente pubescentes) y las láminas del labelo oblongas, sub-sigmoides, adnado a la mitad de la columna con un apéndice amarillo, corto, oblongo, bífido escondido en la mitad (*vs.* láminas estrechamente elíptico-oblongas, adnado a la mitad de la columna con un apéndice biglandular recurvado). Nuestro amplio muestreo, en términos de elevación y geográfico, evidencia que la nueva especie está geográficamente restringida al Santuario de Fauna y Flora de Iguaque presentando un alto nivel de especialización de hábitat, por tanto, es necesario proteger su hábitat natural y la población conocida hasta ahora.

KEYWORDS / PALABRAS CLAVE: Área protegida, Cordillera Oriental, Eastern Cordillera, endemic, endémico, *Lepanthes bachue*, Neotrópico, Neotropics, Protected area

Introduction. Orchidaceae Juss. is the most hyper diverse plant family in the Andes realm and the second richest family worldwide (Pérez-Escobar *et al.* 2022, WCSP 2019). This diversity has been protected by law in many countries, primarily attending the recommendation of the “Convention on International Trade in

Endangered Species of Wild Fauna and Flora” (Ministerio de Ambiente, Vivienda y Desarrollo Territorial 2010). However, this biodiversity is under constant threat from biological resource use, agriculture, disturbance, and modifications to natural systems (Wraith & Pickering 2018). Recent estimates using an automated

ORCID of the Author: EPS , SVU , JSM 

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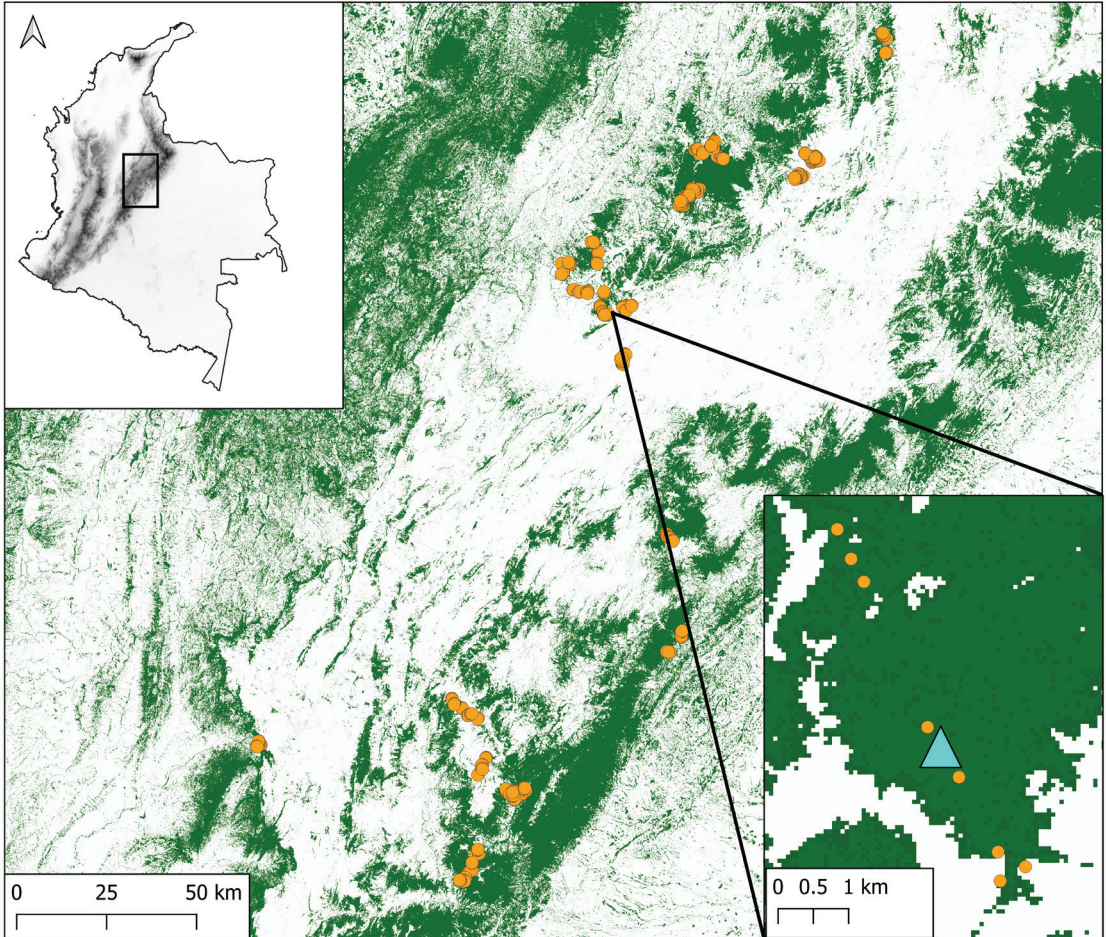


FIGURE 1. Distribution of *Lepanthes bachue* S.Vieira-Uribe, J.S.Moreno & E.Parra in Colombia. Map insets show the elevation across Colombia where dark colours depict higher elevations (top left, ALOS 30-m-resolution digital elevation model; Tadono *et al.* 2014); forest cover across the sampling area (green represents forest cover, white no forests; (Hansen *et al.* 2013); and sampling plots (orange dots) and the location of *L. bachue* (bottom right, blue triangle) at the Santuario de Fauna y Flora de Iguaque. Map composed by E.Parra-Sánchez using QGIS 3.241.

approach suggest that 31.2% of orchid species (4342 out of 13,910 evaluated species) may face extinction (Zizka *et al.* 2021). Local assessments based on IUCN criteria (IUCN 2020) indicate the alarming situation of orchids with unfinished work in threaten categorization and threats in Colombia (207 threatened species in Calderón-Saenz 2007), Peru (300 species, Roque & León 2006), and Ecuador (1421 species, Endara & Jost 2011). This high diversity continues expanding as orchid species are discovered every year because orchidologists are exploring new areas, and taxonomists, along with molecular biologists, are resolving taxo-

nomical puzzles within this specious group (Pérez-Escobar *et al.* 2017).

Lepanthes Sw. (Swartz 1799; Pleurothallidinae) is one of the most species-rich neotropical genera with more than 1164 species with high levels of endemity (Crain & Tremblay 2014, POWO 2022). This high biodiversity seems to respond to a rapid diversification process (Pérez-Escobar *et al.* 2017), despite being a recently evolved genus with a short divergence time (Bogarín *et al.* 2018). Although *Lepanthes* is comprised of many highly restricted species (Bogarín *et al.* 2018, Crain & Tremblay 2014), the genus also has

some widespread species such as *L. mucronata* Lindl. (Lindley 1836, Moreno *et al.* 2020), and *L. wagneri* Rchb. (Luer & Thorerle 2012, Reichenbach 1855). This geographical restriction might be counterintuitive because *Lepanthes* seeds can disperse over long distances primarily through wind-dispersion. Yet, most *Lepanthes* species have limited geographic ranges and exhibit long-tailed dispersal kernels (Fernández *et al.* 2003, Kindlmann *et al.* 2014, McCall 2007, Tremblay 1997). Hence, the geographical restriction of *Lepanthes* might respond to dispersal limitation and species-specific plant pollinator relationships on top of the speciation process (J. Moreno *unpubl. data*). Tremblay (1997) found that seeds can disperse within the immediate 4.8 meters from the mother plant. Furthermore, populations seem to set low number of fruits, with less than one successful migrant per generation and have low thermal tolerance to drought (Acevedo *et al.* 2020). Thus, many *Lepanthes* species seem not only to have small species ranges but also to be highly sensitive to disturbance.

Here, we describe a new species of *Lepanthes* of the eastern cordillera in the Colombian Andes. We randomly sampled 343 plots over 270 km in the eastern cordillera across a large elevational gradient (1100–3880 m) and discovered the species dwelling in only one sampling plot in the Sanctuary of Fauna and Flora of Iguaque (hereafter SFFI) part of the National System of Protected Areas. Our sampling design shows the rarity of the new species even within the same area.

Materials and methods

Study area.— The sampling corresponds to the surveys carried out by the author EPS to understand the forces shaping orchid communities as part of the PARAMO project (Provisioning of ecosystem services and cultural values in the montane tropics). Here is a brief description of the study area and methodology, for further details please consult the author (*unpubl. data*). The study was in the departments of Boyacá, Cundinamarca, Meta, and Santander, in the east and west flanks of the Eastern Andes Cordillera in Colombia (Fig. 1). The study included three habitat types: 1- forests, 2- pasture for cattle, and 3- paramo shrublands, grasslands, and forests of *Polylepis* Ruiz & Pav. All habitats have undergone historical human-mediated disturbance (landowners pers. comm.).

Sampling design.— The sampling was done between January 2018 and November 2021; we sampled 343 plots across 270 km distance covering a wide elevational range (1163–3763 m). We randomly placed 151 plots in Andean forests keeping at least a minimum of 172 m distance apart (range=172.3–2759 m), at a minimum of 30 m from the forest edge or roads. We placed 114 pasture plots, located at least 60 m away from the forest edge and at a minimum of 193 m apart (10 × 30 m each plot; range=193–4225 m). In paramos, we sampled natural shrublands (n=72 plots), along with high-elevation elfin forests (n=6 plots), located at a minimum of 195 m apart (range=195–15,170 m). Each sampling plot consisted of a 10 × 30 m quadrant. We sampled orchids in the understory up to 2 m above ground within each plot. Only adult individuals were recorded. Vouchers were preserved as dried or spirit specimens for future reference at VALLE and JAUM.

Descriptions and drawings.— Living and preserved specimens were examined for morphological and taxonomic comparisons. In addition, the monograph of *Lepanthes* from Colombia (Luer & Thorerle 2012) and other original descriptions from related species were reviewed and compared, specimens from the following herbaria: AMES, COL, CUVC, FMB, HUA, ICESI, JAUM, JBB, TOLI, and MO (online) were consulted. The description and drawings were prepared from living specimens dissected under a Barska AY11234 trinocular stereo microscope. Digital images were taken with a Canon 7d Mark II with a Canon 100 mm f/2.8L macro lens. Sketches from living and preserved specimens were digitized, and the images were used for diagramming a composite draft plate in Adobe Photoshop® 2020. In addition, a digital composite line drawing was made in the Procreate illustration application with an iPad 8th generation tablet. The Botanical terminology used in the manuscript followed Beentje (2010) and Stearn (1992).

TAXONOMIC TREATMENT

Lepanthes bachue S.Vieira-Uribe, J.S.Moreno & E.Parra, *sp. nov.* (Fig. 2–4).

TYPE: Colombia. Boyacá: Municipio de Villa de Leyva, Santuario de Flora y Fauna Iguaque, 3160 m,

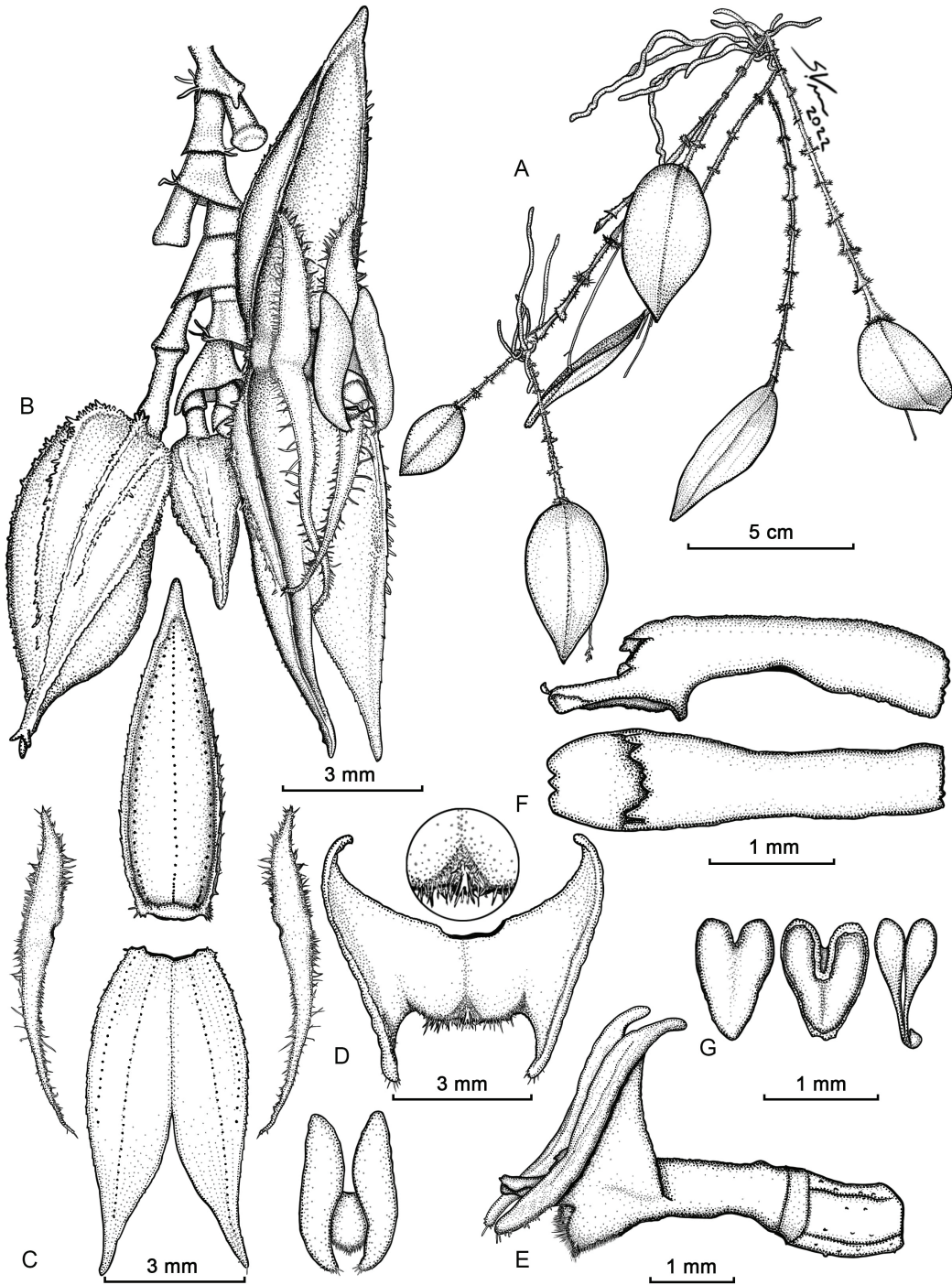


FIGURE 2. Drawing of *Lepanthes bachue* S.Vieira-Uribe, J.S.Moreno & E.Parra. A. Habit. B. Flower, oblique view. C. Dissected perianth. D. Lip, expanded and close-up to the bifid appendix. E. Ovary, column, and lip, lateral view. F. Column, lateral and dorsal views. G. Anther cap and pollinarium. Drawn by S.Vieira-Uribe from the plant that served as type (Parra-Sanchez 2521, VALLE).

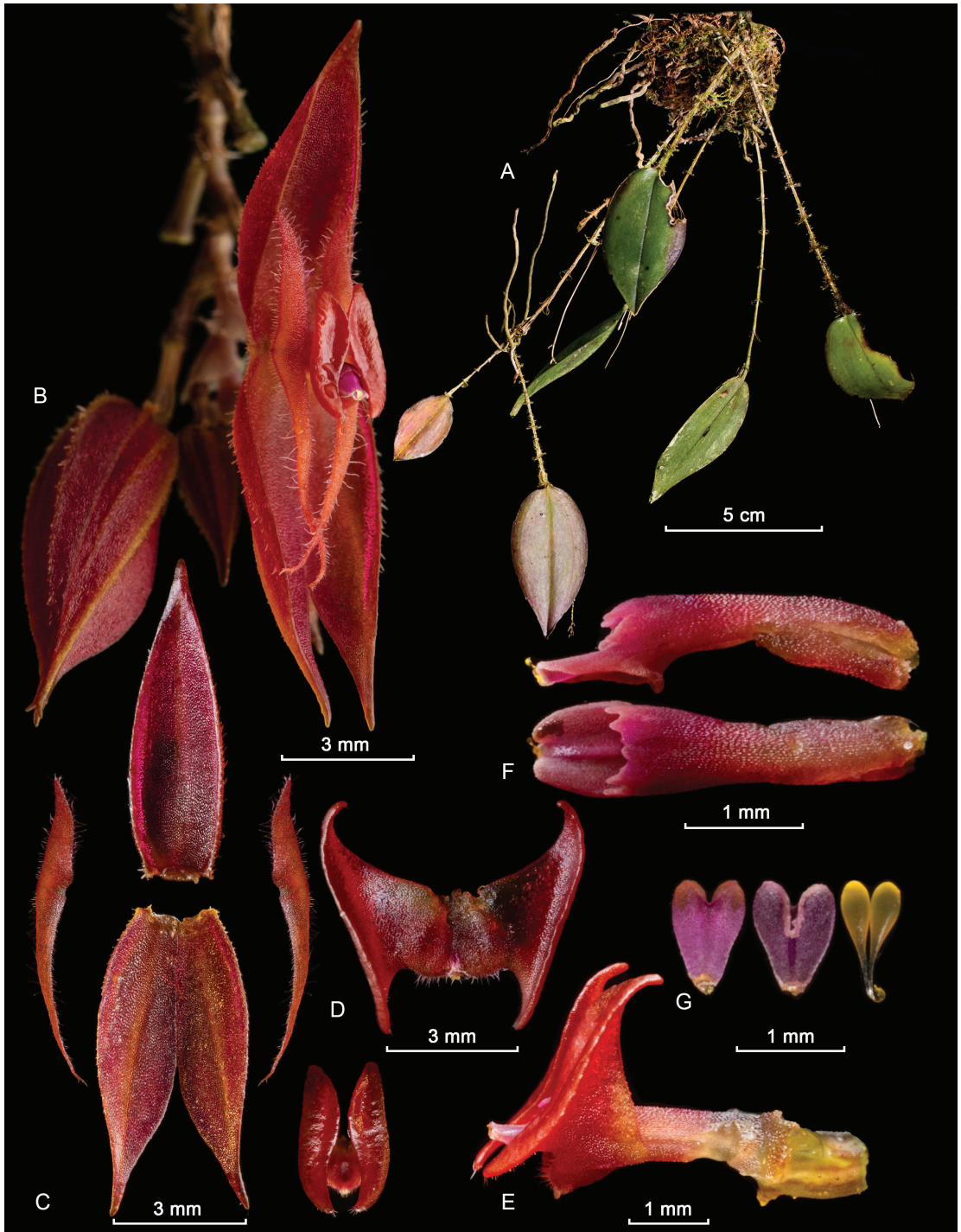


FIGURE 3. Lankester composite dissection plate of *Lepanthes bachue* S.Vieira-Uribe, J.S.Moreno & E.Parra. A. Habit. B. Flower, oblique view. C. Dissected perianth. D. Lip, expanded. E. Ovary, column, and lip, lateral view. F. Column, lateral and dorsal views. G. Anther cap and pollinarium. Photographed and assembled by S.Vieira-Uribe from the plant that served as type (Parra-Sanchez 2521, VALLE).

16 Feb 2021. *Parra-Sánchez 2521 et al.* (holotype: VALLE; isotype: JAUM-Spirit).

DIAGNOSIS: *Lepanthes bachue* is most similar to *Lepanthes papallactae* Luer & Hirtz (Luer 1987), but it can be distinguished by its proliferous plants (*vs.* non proliferous), the lateral sepals connate into an ovate-lanceolate synsepal (*vs.* ovate lateral sepals), the petals with the upper lobe 2.5 mm long, the lower lobe larger than the upper long, 4.5 mm long and the margins ciliate (*vs.* lobes subequal, 4.5 mm long and shortly pubescent) and the lip with the blades oblong, sub-sigmoid, adnate to the middle of the column with a short oblong, bifid appendix hiding in the middle (*vs.* blades narrowly elliptical-oblong, adnate to the column above the middle with a recurved, pedunculate, bi-glandular appendix).

Plant epiphytic, caespitose and proliferous, up to 29 cm tall. *Roots* slender, flexuous, filiform, *ca.* 0.6–1.5 mm in diameter. *Ramicauls* slender, suberect to pendent, 5.0–21.5 cm long, enclosed by 7–14 acuminate, ribbed, pilose sheaths with pilose dilated margins. *Leaves* coriaceous, acrodromous and reticulate-veined, ovate, the apex attenuated, 3.7–7.2 × 1.9–4.1 cm, the rounded base contracted into a 2.0–2.5 mm long petiole. *Inflorescence* a congested, distichous raceme successively many-flowered, up to 10 cm long including the peduncle, hanging below the surface of the leaf by a filiform, terete peduncle up to 5.5 cm long borne near the apex of the ramicaul; *floral bracts* conical, acuminate, sparsely ciliate, up to 1.8 mm long. *Ovary* terete, costate, *ca.* 2.4 mm long. *Flowers* with sepals claret to vermilion, petals and lip vermilion, the column vermilion with the apex claret, the anther cap magenta. *Sepals* lanceolate, concave, margins sparsely serrate, the veins abaxially carinate and covered with filiform papillae. *Dorsal sepal* acute, 3-veined, 7.3 × 2.2 mm, connate at the base to the lateral sepals for *ca.* 0.5 mm. *Lateral sepals* with an attenuate apex, 2-veined, 6.8 × 1.6 mm, connate at the base for *ca.* 3.0 mm into a concave, ovate-lanceolate synsepal. *Petals* transversally bilobed, puberulent, ciliate margins, 0.7 × 7.0 mm, the upper lobes oblong to narrowly triangular, acute, 2.5 mm long, the lower lobes narrowly triangular-linear, subfalcate, acute, 4.5 mm long. *Lip* bilaminar, the blades oblong, sub-sigmoid, the base obtuse, the apex

obtuse, falcate, ciliate, 3.4 × 0.9 mm, supported by cuneate connectives from near the middle, the body orbicular, abaxially pubescent, the sinus with two rounded, pubescent protuberances with a short oblong, bifid, yellow appendix hiding in the middle; adnate to the middle of the column. *Column* cylindrical, 3.3 mm long, the anther and stigma apical. *Pollinia* 2, yellow, clavate, attached to a detachable viscidium, 1.1 mm long. *Anther cap* cucullate, obcordate. *Capsule* not seen.

ADDITIONAL MATERIAL STUDIED: COLOMBIA. Boyacá: Villa de Leyva, Santuario de Fauna y Flora de Iguaque, 3000 m s.n.m. *M Rincón-González et al 1971*, 12/IV/2021 (JBB 35407!).

ETYMOLOGY: In reference to *Bachué* in native Chibcha language “the one with the naked breast”. *Bachué* is the Muisca goddess of humanity. According to Muisca mythology, *Bachué* emerged of the waters in the Iguaque Lake and gave birth to humanity. The Iguaque Lake is a highland lake (3570 m), an important cultural, spiritual, and social landmark of the protected area where the species was found.

TAXONOMIC NOTES: The most similar species to *Lepanthes bachue* is undoubtedly *L. papallactae* (Hirtz 1810, MO; Fig. 5), endemic to Ecuador, with dull red-brown sepals with yellow margins and purple-brown petals (*vs.* claret and vermilion) and with some morphological differences as discussed in the diagnosis. Also, from Colombia and Ecuador, *Lepanthes aries* Luer (Luer 1983), resembles the new species but can be distinguished by its non-proliferous habit (*vs.* prolific habit), oblong leaves (*vs.* ovate), the flowers with the lateral sepals elliptic-lanceolate (*vs.* lanceolate), the petals with the upper lobe elliptical and the lower lobe triangular (*vs.* the upper lobe oblong to narrowly triangular and the lower lobes narrowly triangular-linear); the lip appendix 3-lobed with one lobe beneath the other 2 lobes in the sinus (*vs.* bifid, hiding in the middle of the sinus) and the column 2.5 mm long (*vs.* 3.3 mm long).

HABITAT AND ECOLOGY: The new species is known only from the type locality (Fig. 1, 6) where it grows in groups in shaded areas hanging from tree trunks and



FIGURE 4. Plants of *Lepanthes bachue* S.Vieira-Uribe, J.S.Moreno & E.Parra growing in their natural habitat. Photographed and assembled by S.Vieira-Uribe.



FIGURE 5. Floral comparison of *Lepanthes bachue* S.Vieira-Uribe, J.S.Moreno & E.Parra and *L. papallactae* Luer & Hirtz. Photography of *Lepanthes bachue* taken by S.Vieira-Uribe and *L. papallactae* taken by Andreas Kay under permission of Lou Jost.

branches (Fig. 4). We received a report of a plant photographed by Luis Pina growing in the vicinity of Arcabuco (<10 km distance from SFFI). However, we could not verify the material and the origin of the plant, then it is uncertain whether a population exists in the wild of the photographed plant. Plants of the new species are unfrequently found in a single place at 3150 m where it grows as an epiphytic plant on lianas and fallen trees. The species has been found flowering between April and November, although the park rangers have observed it blooming almost all year round.

CONSERVATION STATUS: *Lepanthes bachue* is known only from its type locality, located in a government-man-

aged protected area. Although the proposed IUCN categorization for this species is data deficient (DD), we provide an overview that can be use as population and distribution information to assess the species.

The species was found growing in large numbers (over 180 adult individuals) in the understory (tree density= 0.16 trees per m²) in only one site out of 343 sampling plots (Fig. 3). Our sampling design allowed us to randomly survey 12 plots (30 × 10 m each plot) within the protected area as well as other forests and pastures nearby (31 plots within 20 km radius), along the 2640 m elevational gradient (1120–3760 m). Furthermore, the staff of the SFFI has been continuously tracking the species for over a year across



FIGURE 6. View of the forests in the Sanctuary of Fauna and Flora of Iguaque where *Lepanthes bachue* grows. Photography by S.Vieira-Uribe.

different parts of the protected area and have not seen it elsewhere. It is expected that the population or the habitat will not decline due to the current protection status (criteria= B–D), however the species has a very restricted geographic range limited to SFFI.

Lepanthes bachue is a rare species that has a narrow geographic distribution, specialized habitat requirements, and a small regional population. It might be facing great danger because rare species are more likely to go extinct than common species (Enquist *et al.* 2019, Pimm *et al.* 2014). Furthermore, unassessed species and DD species are less likely to receive funding for conservation by government and conservation institutions due to the uncertainty of their extinction risk (Bland *et al.* 2017, Sousa-Baena *et al.* 2014). Thus, we suggest the specie must be considered as of conservation concern and actions should be directed to protect its natural habitat and implement propagation *in situ* to improve the chances of survival, as well as to explore other locations within the Sanctuary to extend the potential habitats where the species may dwell.

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AUTHOR CONTRIBUTIONS. SVU, SM and EPS conceived the idea; SVU and SM elaborated the taxonomic treatment of the species; EPS designed the sampling methodology and lead the ecological angle of the paper; SVU designed the Lankester Composite Dissection Plate and line drawing with photographs taken by SVU. All the authors contributed critically to the drafts and gave final approval for publication.

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MASDEVALLIA LEONOR-BAEZIANA (PLEUROTHALLIDINAE): A NEW SPECIES FROM THE ANDEAN-AMAZONIAN FOOTHILLS OF CAQUETÁ, COLOMBIA

OSCAR PERDOMO^{1,2,5}, EDWIN TRUJILLO TRUJILLO² & ADAM P. KARREMANS^{3,4}

¹Laboratory of Systematics of Vascular Plants, Postgraduate Program in Botany,
Universidade Federal do Rio Grande do Sul, Porto Alegre 91509-900, RS, Brazil.

²Laboratorio de Agrobiodiversidad y Malherbología – LAMUA, Universidad de la Amazonia,
Calle 17 Diagonal 17 con Carrera 3F, Florencia, Caquetá, 180001, Colombia.

³Jardín Botánico Lankester, Universidad de Costa Rica, Cartago, P.O. Box 302–7050, Costa Rica.

⁴Naturalis Biodiversity Center, Evolutionary Ecology Group, Sylviusweg 72, 2333 BE,
Leiden, The Netherlands.

⁵ Author for correspondence: oscarperdomobaez@gmail.com

ABSTRACT. We describe and illustrate a new species of *Masdevallia* from the Andean-Amazonian foothills of Caquetá, Colombia. *Masdevallia leonor-baeziana* belongs to *Masdevallia* subsect. *Saltatrices*, within the *M. constricta* group. It is most similar to *M. constricta*, but it can be distinguished by the shorter sepals and sepaline tails that do not surpass the tube length, and the shorter, sigmoid-ovate lip. We proposed categorizing the species as Critically Endangered (CR) based on the B and D IUCN red list criteria.

RESUMEN. Describimos e ilustramos una nueva especie de *Masdevallia* del piedemonte Andino-Amazónico de Caquetá, Colombia. *Masdevallia leonor-baeziana* pertenece a *Masdevallia* subsecc. *Saltatrices*, dentro del grupo *M. constricta*. Es similar a *M. constricta*, pero puede diferenciarse por los sépalos y colas sepalinas más cortos que no sobrepasan el largo del tubo, y el labelo más corto, sigmoide-ovado. Proponemos la categorización de la especie como Críticamente Amenazada (CR) siguiendo los criterios B y D de la lista roja de la IUCN.

Keywords/Palabras clave: Amazonia, Andes, biodiversidad, biodiversity, foothills, neotrópicos, neotropics, piedemonte.

Introduction. The genus *Masdevallia* Ruiz & Pav. with about 640 species is one of the most diverse genera in the Pleurothallidinae subtribe (Karremans 2016, Karremans & Vieira-Uribe 2020), being outnumbered only by *Stelis* Sw. with nearly 1250 species (Karremans 2019) and *Lepanthes* Sw. with over 1150 species (Bogarín *et al.* 2019). *Masdevallia* is distributed from southern Mexico to Bolivia and Brazil, growing from 0 to 4000 m of elevation (Pridgeon *et al.* 2005). The center of diversity is in the Andes of Colombia, Ecuador, and Peru (Bogarín *et al.* 2017, Luer 2003). Despite the long-standing academic and horticultural interest in orchids, and the numerous species inventories, new species of *Masdevallia* are still frequently discovered and described across the neotropics (e.g. Collantes *et al.* 2021, Galindo-Tarazona *et al.* 2021,

Gutiérrez del Pozo *et al.* 2022, Monteros *et al.* 2022, Pessoa & Karremans 2022). Currently, 154 species of *Masdevallia* are known to occur in Colombia, 131 of which are from the Andes, four from Amazonia, eight from the Biogeographic Chocó, four from the Magdalena River valley, two from the Sierra Nevada of Santa Marta, and three from the other natural regions of the country (Bernal *et al.* 2019).

The Andean-Amazonian foothills serve as a transition zone between the Andes and the Amazon biomes, and this region is threatened by agricultural expansion and deforestation. Such threats lead to the loss of the original cover and the consequent habitat fragmentation, soil degradation, and biodiversity loss (Armenteras *et al.* 2006, Hoffman *et al.* 2018). The Caraño river watershed, located in the Andean-Amazonian foothills

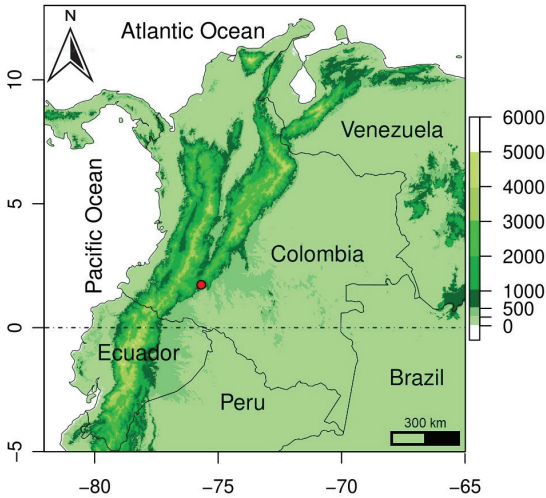


FIGURE 1. Type locality (red point) of *Masdevallia leonor-baeziana* in the Andean-Amazonian foothills of Caquetá, Colombia. Map by O. Perdomo.

of Caquetá, Colombia, covers an area of 69.9 km² and spans elevations from 860 to 2680 m. This area is home to a great diversity of orchids, with more than 120 species registered (O. Perdomo pers. obs.). Therefore, efforts to study and conserve these species and implement policies for the protection and sustainable use of the remaining forests in this area are necessary.

Expeditions in the Caraño River watershed were carried out as part of the research project “*Strategy for knowledge, study, and conservation of the orchid flora of the Andean-Amazonian foothills of Caquetá department.*” A *Masdevallia* specimen bearing a flower with white sepals and yellow tails was found during the fieldwork. The specimen, which is morphologically similar to *M. constricta* Poepp. & Endl., proved to be different from the other species of *Masdevallia*. After an exhaustive comparison of the plant and flowers with previously described taxa (Luer 2002, 2003, Guitérrez del Pozo *et al.* 2022, Monteros *et al.* 2022, Pessoa & Karremans 2022), we determined it is a new species. Here we name the taxon, provide detailed images in the form of a Lankester Composite Digital Plate (LCDP), and compare it with morphologically similar species of the *M. constricta* group.

Materials and methods. The species described here was collected in a botanical expedition carried out in November 2021, in a cloud forest of the Caraño river

basin, in Caquetá, Colombia (Fig. 1). *In situ* notes on the habitat, phenology, distribution, and detailed photographs of the specimens were recorded. The botanical exsiccateae were pressed, dried, and deposited at CUVC and HUAZ. Subsequent expeditions were carried out to search for more individuals in the forest around the type locality and nearby forests, but we didn’t find any more individuals. For the conservation status assessment, we used the geographic range (B criterion) and the number of mature individuals (D criterion) of the International Union for Conservation of Nature categories and criteria (IUCN 2022).

TAXONOMIC TREATMENT

Masdevallia leonor-baeziana Os.Perd., Edwin Trujillo & Karremans, *sp. nov.* Fig. 2, 3F.

TYPE: Colombia. Caquetá: cuenca hidrográfica del río Caraño, Vereda El Caraño, camino real hacia la finca Las Brisas, 926 m, agosto de 2022, O. Perdomo *et al.* OP465 (holotype, CUVC; isotype, HUAZ).

DIAGNOSIS: *Masdevallia leonor-baeziana* is similar to *M. constricta* (Fig. 3A–B), but easily distinguished by the much shorter size of the sepals (dorsal sepal 5.5 vs. 7.0–8.2 cm long), gradually narrowing (vs. abruptly contracted) into notoriously shorter tails (2.0–2.3 vs. 4.0–4.5 cm long), which do not exceed the sepaline tube length (vs. tails significantly longer than the sepaline tube), the petals smaller (5.8–6.1 × 1.9–2.0 vs. 7–8 × 3 mm), the lip sigmoid-ovate, triangular above the middle, gradually narrowing towards apex (vs. sigmoid-ligulate, with a claw above the middle, broadened towards a truncate apex), and shorter (4.9–5.2 vs. 6 mm long).

Plant epiphytic, caespitose, erect, up to 11 cm tall. *Roots* flexuous, to 1.2 mm in diameter. *Ramicals* erect, up to 1.2 cm long, enclosed by 2–3 tubular sheaths 1.0–1.4 cm long. *Leaf* blade bright green, petiole dark purple, erect to suberect, coriaceous, elliptic, obtuse, emarginate, with a short apiculus, 4.0–12.0 cm long including the 1.3–3.0 cm long petiole, 0.7–2.1 cm wide, the base gradually narrowed. *Inflorescence* single flowered. *Peduncle* light green, suberect, to 4 cm long, enclosed by tubular bracts. *Floral bract* tubular, 1 × 8 mm. *Pedicele* light green, cylindric, 14 mm

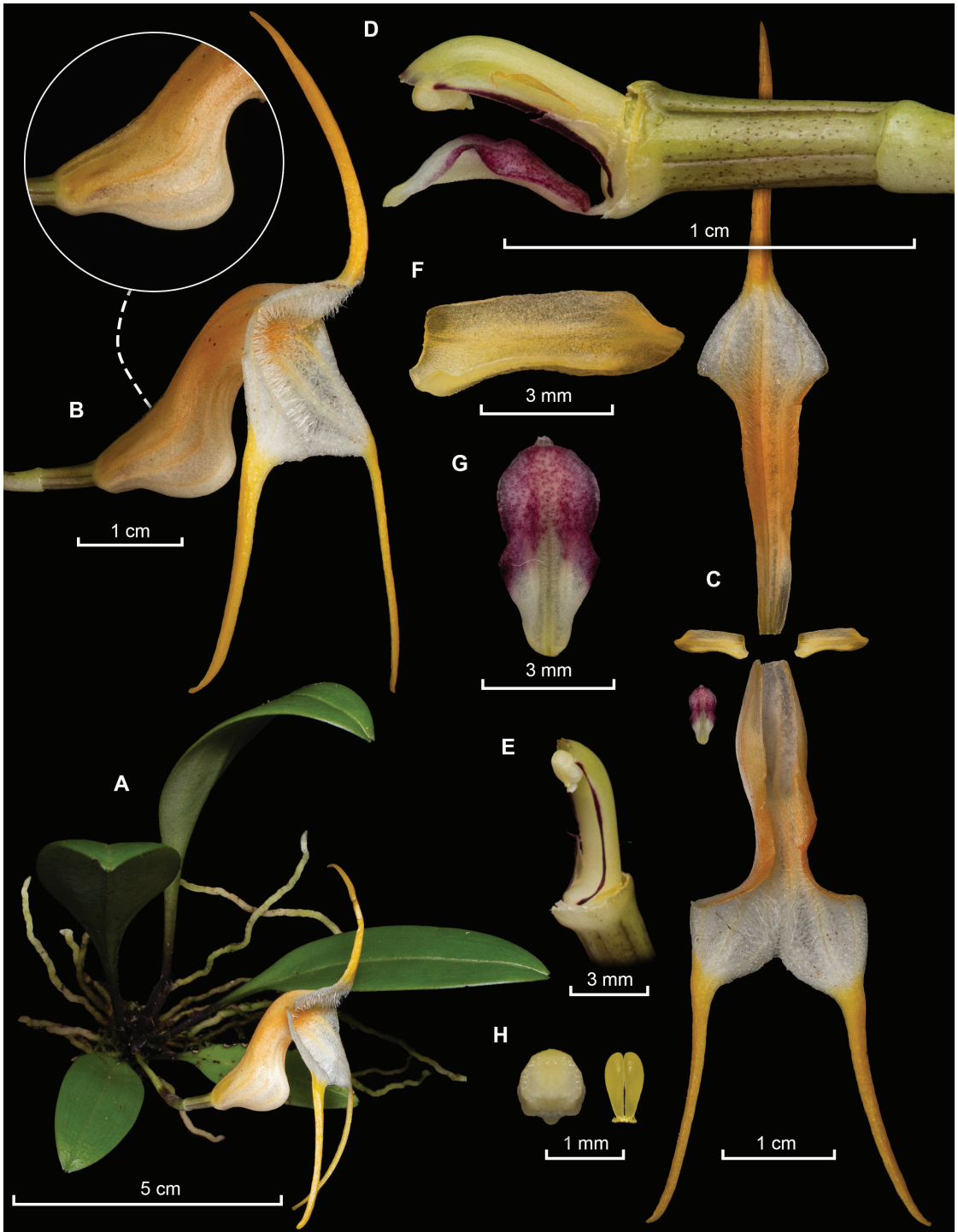


FIGURE 2. Lankester Composite Digital Plate (LCDP) of *Masdevallia leonor-baeziana*. **A.** Habit. **B.** Flower. **C.** Dissected perianth. **D.** Ovary, column and lip, lateral view. **E.** Column, ventral view. **F.** Petal. **G.** Lip, dorsal view. Photographs and plate by E. Restrepo based on the type (*Perdomo et al.* OP465, CUVC).

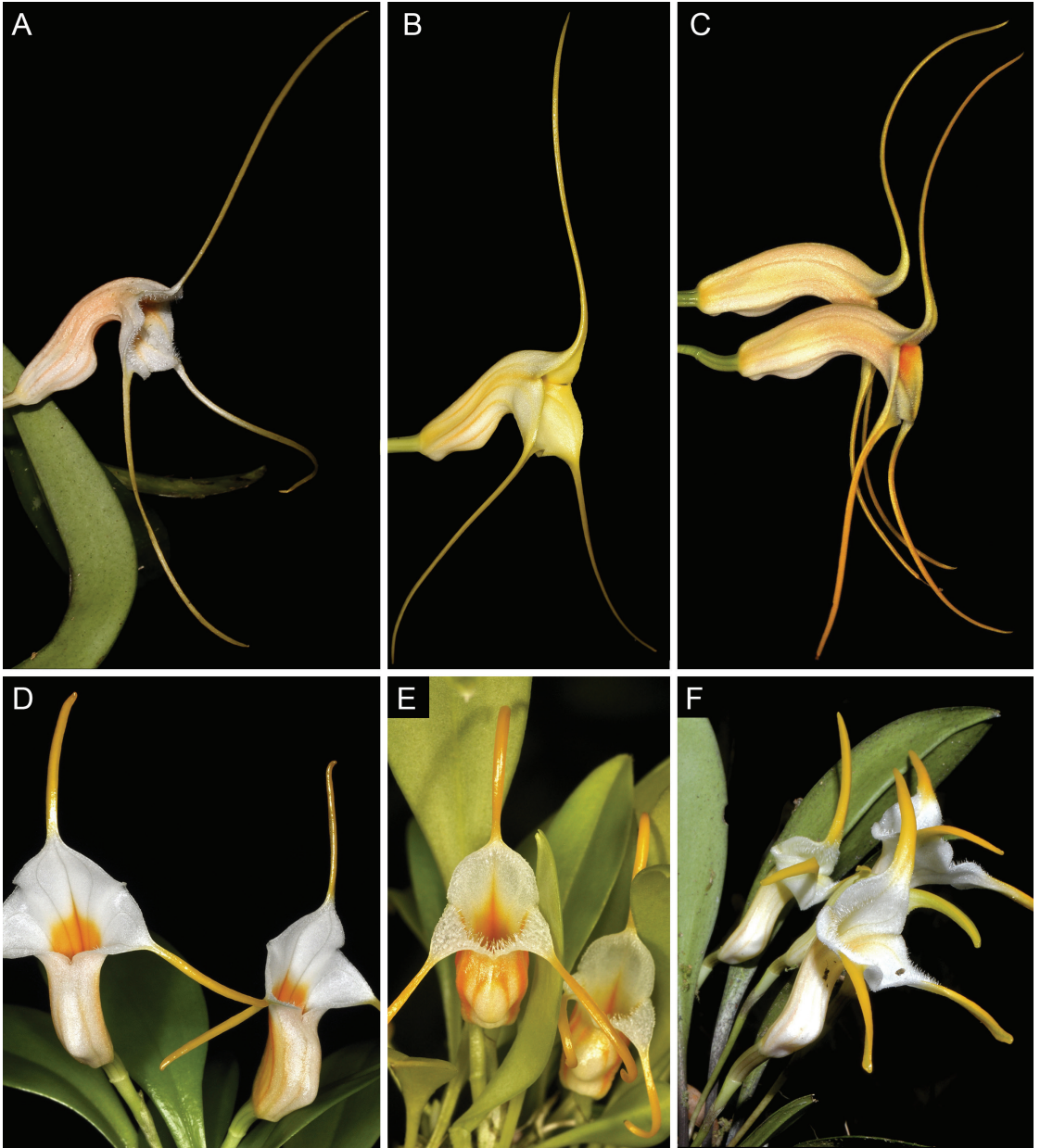


FIGURE 3. Diverse members of the *Masdevallia constricta* group. **A.** *M. constricta* fo. *constricta*, from close to the type locality in Peru. **B.** *M. constricta* fo. *glabra*. **C.** *M. rex*. **D.** *M. fuchsii*. **E.** *M. ampullacea*. **F.** *M. leonor-baeziana*. Photographs by L. Ocupa (A), R. Parsons (B–E), and O. Perdomo (F). Plate by A.P. Karremans.

long. *Ovary* cylindrical, purplish-green 6×2 mm, with 6 straight ribs. *Flowers* fleshy, white suffused with light orange, the sepaline tails yellow, the petals yellowish-orange, the lip white conspicuously spotted fuchsia below the middle, the column greenish with a purple

margin. *Sepals* long-pubescent from the middle of the tube to above the middle of the loose blades. *Dorsal sepal* oblanceolate, 5.5 cm long contracted into a tail of 2.3 cm long, 1.1–1.2 cm wide in the middle, connate for 2.1–2.2 cm to the lateral sepals to form a cylindrical

cal, ventricose sepaline tube, the free portion ovate. *Lateral sepals* oblanceolate, oblique, 5 cm long including the 2 cm long tails, connate for 2 cm to form a lamina 1.5–1.6 cm wide when expanded. *Petals* asymmetrically quadrate, oblique, unguiculate, 5.8–6.1 × 1.9–2.0 mm, the apex acute, the laminar margin with a low, longitudinal callus. *Lip* sigmoid-ovate, base subtruncate, hinged beneath, margin forming a pair of lobes above the middle, centrally convex, lightly channeled, 4.9–5.2 × 2.2–2.5 mm, apex rounded. *Column* semiterete, 5.5–6.0 × 1.5 mm, provided with a foot 1.0 mm long, with a short, incurved extension. *Anther cap* white, cucullate, 1.0 × 0.9 mm; *pollinarium* composed of two yellow obovate pollinia, 1.0 × 0.3 mm, united by minute, granular caudicles.

ETYMOLOGY: The name honors Carmen Leonor Báez de Perdomo, mother of the first author, who inspired his love for nature and led him to study plants and their interactions.

DISTRIBUTION AND HABITAT: *Masdevallia leonor-baeziana* is currently known only from a single population with less than 30 individuals growing as an epiphyte in a primary Andean forest at around 1000 m of elevation. This population is located on the watershed of the Caraño river in the Caquetá department of Colombia.

PHENOLOGY: The plants were observed flowering from August to December in 2022, and April to May 2023.

MORPHOLOGICAL AFFINITIES: The new species is a member of *Masdevallia* subsect. *Saltatrices* (Rchb.f.) Luer, all of which share having deeply connate sepals that form a long sepaline tube, which is often ventricose. *Masdevallia leonor-baeziana* belongs to the *M. constricta* group, which, besides *M. constricta* (Fig. 3A–B), includes *M. aurea* Luer, *M. tubata* Schltr., *M. rex* Luer & Hirtz (Fig. 3C), *M. fuchsii* Luer (Fig. 3D), and *M. ampullacea* Luer & Andreetta (Fig. 3E); none previously known to occur in Colombia. Morphologically, the most similar species are *M. constricta* and *M. fuchsii*. From the former, the new species is easily distinguished by the much shorter size of the sepals (dorsal sepal 5.5 vs. 7.0–8.2 cm long), gradually narrowing (vs. abruptly contracted) into notoriously shorter tails (2.0–2.3 vs. 4.0–4.5 cm long), which do not exceed the

sepaline tube length (vs. tails significantly longer than the sepaline tube), the petals smaller (5.8–6.1 × 1.9–2.0 vs. 7–8 × 3 mm), the lip sigmoid-ovate, triangular above the middle, gradually narrowing towards apex (vs. sigmoid-ligulate, with a claw above the middle, broadened towards a truncate apex), and shorter (4.9–5.2 vs. 6 mm long). *Masdevallia leonor-baeziana* can be distinguished from the Peruvian *M. fuchsii* by longer sepals (dorsal sepal 5.5 vs. 3.3–3.5 cm long), gradually narrowing (vs. abruptly contracted) into longer tails (2.0–2.3 vs. 1.0–1.2 cm long), that are subequal to the length of the tube (vs. tails half the length of the tube), and the sigmoid-ovate lip (vs. oblong-ligulate).

CONSERVATION STATUS: *Masdevallia leonor-baeziana* is endemic to Colombia, currently known from a single population growing in a secondary forest beside a rural road. The surrounding area, composed of secondary forest patches, farmlands, and pastures, is in a continuous deforestation process for new cultivation areas and wood extraction. Therefore, the sole population of *M. leonor-baeziana* comprises 17 individuals growing on the trunk of a big tree (Lauraceae), and its distribution is restricted to the type locality. This implies that the AOO is 4km², and the EOO is considered as the 70 km² of the watershed of the Caraño river, meeting the B1 and B2 criteria for CR category, plus the qualifiers “a” because of the unique population known, and “b” because of the continuing decline observed in the Extent of Occurrence - EOO (i), the Area of Occupancy - AOO (ii), and the quality of the habitat (iii). Furthermore, the number of individuals found indicates a very small population that accomplishes the same category in the D criterion. Therefore, we categorize this species as Critically Endangered (CR) following the B and D red list criteria of the IUCN, under the code B1+2a,b(i,ii,iii)+D1.

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***PINALIA ELATA* (ERIINAE) — TAXONOMIC AND CONSERVATION ASSESSMENTS OF A LESSER-KNOWN NARROW ENDEMIC ORCHID FROM PENINSULAR MALAYSIA**

EDWARD E. BESI^{1,7}, NG Y. JIN¹, MOHD N. GHAZALLI², MOHD R. ENDOT³,
KHAIRUDDIN PERDAN⁴, NORULHUDA ALI⁴, EDEVALDO J. YAPP⁵, EDDIE CHAN⁶ & RUSEA GO^{1,7}

¹Department of Biology, Faculty of Science, Universiti Putra Malaysia, 43400 UPM, Serdang, Selangor Darul Ehsan, Malaysia.

²Resource Utilisation and Agrobiodiversity Conservation Programme (BE2), Agrobiodiversity and Environment Research Centre, Malaysian Agricultural Research and Development Institute (MARDI) Headquarters, 43400 Serdang, Selangor, Malaysia

³Silviculture & Forest Biodiversity Conservation Division, Forestry Department of Peninsular Malaysia, Jalan Sultan Salahuddin, 50660 Kuala Lumpur, Malaysia.

⁴Forest Biodiversity Control Section, Silviculture & Forest Biodiversity Conservation Division, Forestry Department of Peninsular Malaysia, Jalan Sultan Salahuddin, 50660 Kuala Lumpur, Malaysia.

⁵Forest Biodiversity Section, Silviculture & Forest Biodiversity Conservation Division, Forestry Department of Peninsular Malaysia, Jalan Sultan Salahuddin, 50660 Kuala Lumpur, Malaysia.

⁶Environmental Services Department, Resorts World Genting Awana, KM13, 69000 Genting Highlands, Pahang, Malaysia.

⁷Corresponding authors: rusea@upm.edu.my, edwardentalai@upm.edu.my

ABSTRACT. *Pinalia elata* is an attractive endemic species of Peninsular Malaysia, known from only six localities within the Titiwangsa mountain range where it is confined to montane vegetation. However, four of these localities are now threatened by anthropogenic factors, raising concerns about the ongoing survival of this endemic species in the wild. Despite efforts to understand the conservation status of Malaysian orchid species, there remains much work to be done, particularly for endemic species confined to remote and mountainous areas. Therefore, this paper provides a detailed morphological description, photographic illustrations for easy identification of the species, and a conservation assessment based on the IUCN Classification Criteria. Morphologically, *P. elata* can be easily distinguished from the other *Pinalia* species in Peninsular Malaysia by its erect inflorescences with well-spaced, closed flowers along the apical half, subtended by prominently large purplish-brown bracts. The flowers resemble buds with the labellum hidden by the petals and sepals. A preliminary risk-of-extinction assessment categorizes *P. elata* as critically endangered, CR A2acd C2a(i) D, according to the IUCN Red List Categories and Criteria.

KEYWORDS / PALABRAS CLAVE: bosque nuboso, endemism, endemismo, especie de tierras altas, extinction risk, Genting Highlands, highland species, mossy forest, Orchidaceae, riesgo de extinción, taxonomía, taxonomy

Introduction. *Pinalia* Lindl. with the type species, *Pinalia alba* Buch.-Ham. ex D. Don, belongs to subtribe Eriinae Benth. within the tribe Podochileae Pfitzer (Cribb & Ng in Pridgeon *et al.* 2005). It comprises about 21 species in Peninsular Malaysia (POWO 2023). *Pinalia* was previously classified within polyphyletic genus *Eria* Lindl., comprising taxa formerly treated under *Eria* subgenus *Pinalia* and *Eria* sections *Hymeneria*, *Polyura*,

Secundae, and *Urostachya*. The most recent phylogenetic study by Ng (2002), cited in Pridgeon *et al.* (2005) and Wood *et al.* (2011) resurrected *Pinalia* as a distinct genus. Among its sections, only sect. *Urostachya*, sect. *Hymeneria*, and sect. *Pinalia* exhibit a trilobed lip. In general, *Pinalia* is characterized by fleshy stems with enlarged internodes covered by a semi-transparent leaf sheath, with a few leaves near the apex (O'Byrne *et al.*

ORCID of the Author: EEB , MNG , RG 

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2018). *Pinalia* is morphologically similar to *Bryobium* Lindl., but it can be distinguished by its plurifoliate pseudobulbs or stems (2–6 leaves in the upper part) and either resupinate or non-resupinate flowers (only non-resupination has been observed in *Bryobium*). Most of its species, previously under sect. *Urostachya* have long-tapering labellum with basal lobes or a densely lanate inflorescence rachis. Pseudobulbs are clustered, generally about half the length of the leaves or longer, and not sequentially borne on the rhizomes (Pridgeon *et al.* 2005). The flowers are usually small, mostly white, or greenish yellow, with not spreading tepals, but they are attractive in various sorts of forms and arranged in a large cluster on one peduncle, which is why at least two species of *Eria* was commonly called ‘Lily of the Valley Orchid’ [*Pinalia bicolor* (Lindl.) Kuntze (Internet Orchid Species Encyclopedia 2023); *Pinalia spicata* (D. Don) S.C. Chen & J.J. Wood (Lindley 1841)]. While easy to grow, these species are not as popular as other species and orchid growers seldom cultivate them compared to other orchid species, such as the slipper orchids of genus *Paphiopedilum*, or butterfly orchids of *Phalaenopsis*, due to their less showy features. Their gross floral and vegetative morphology is important for distinguishing sections and species. The shapes of floral parts (especially the labellum) are critical in sectional delimitation, while the pollinia shapes are useful for species differentiation (Go & Tang 2007). However, the sectional treatment is as subjective and insufficient for both *Pinalia* and *Eria* (O’Byrne *et al.* 2018). Nevertheless, assessing diversity, geographic distribution, and conservation status of a species requires the taxonomic expertise of the assessor.

Apart from the unclear taxonomic circumscription, species of *Pinalia* are rare, endemic, and confined to the highland areas, and their conservation should be a high priority both globally and regionally (Besi *et al.* 2020a, Brundu *et al.* 2017, Juiling *et al.* 2020, Schmeller *et al.* 2008). Orchids with narrow and limited distribution ranges can be severely threatened, even if they are locally abundant, especially in this era of prevalent anthropogenic disturbance (Dixon *et al.* 2003). Therefore, this article focuses on *Pinalia elata*, an endemic species, recorded in only six localities in Peninsular Malaysia. Unfortunately, previous descriptions of *P. elata* in Hooker’s protologue of *Eria elata* (the homotypic synonym of *P. elata*) and in Ridley’s monograph were brief and lacked

a detailed description of the floral colour variation and size. A major problem with endemic species occurring in very few populations is the very low chance of finding individuals with a complete floral structure. The lack of fertile individuals, combined with declining habitat quality results in a lack of knowledge about this species. In the case of *Pinalia elata*, for example, only six populations are known, with four occurring on the summit of Genting Highlands. This area is the most accessible cloud forest habitat in Peninsular Malaysia and nourishes high abundance of orchid species and endemism. Unfortunately, the summit area has been seriously disturbed since the development of Genting Highlands began in 1967. The development, which includes hotels, casinos, and a theme park, has led to habitat destruction (Besi *et al.* 2020b, Go *et al.* 2015, Ng *et al.* 2012, Stone 1981). Fragmentation of the montane forests can have a damaging impact on biodiversity, which is a key indicator of ecosystem stability (Chua & Saw 2001, Korner 2002). Recognising the role of experts under the IUCN Species Survival Commission (SSC), and with assistance from the Awana Genting Highland’s Conservation Management Group, this paper provides taxonomic notes of the less-known *Pinalia elata*, as well as primary *in situ* data on its local distribution, habitat ecology, phenology, and microclimate. These data are relevant for a conservation assessment of this endemic species.

Materials and methods. The morphological description was based on the specimens collected from a cloud forest habitat of the summit area in Genting Highlands. An existing trail was used in the forest to access the orchids comprehensively. The specimens were deposited in the Herbarium of the Department of Biology, Faculty of Science, Universiti Putra Malaysia (UPM). The measurement and morphological examination of spirit-preserved floral specimens were performed using the AM4113ZT Dino-Lite Digital Microscope (AnMo Electronics Corporation, Taiwan). The identification of specimens was based on their macro-morphological characteristics: (1) vegetative characters: life form, growth type, rhizome, stem or pseudobulb, leaf number, leaf arrangement, leaf marking, leaf shape, leaf size, leaf surface appearance; (2) floral characters: inflorescence type, inflorescence position, flowers arrangement, flower size, flower colour, perianth appearance, labellum shape, column shape. Morphology and distribution

studies were done by examining the type specimens, monograph, and protologue. The specimen details were compared in detail with original drawings and descriptions provided in the protologue of *Eria elata* (homotypic synonym of *P. elata* in Hooker 1889), and description of the species in the monograph of Seidenfaden & Wood (1992), and several type specimens deposited in both local and international herbaria. The second author examined materials in KEP and KLU herbaria. Meanwhile, the herbarium study for specimens deposited in the international herbaria, CAL, K, NHN, and SING, was limited to the study of digital images. Herbarium collections, botanical drawings, and records deposited in the National Herbarium of the Netherlands (NHN) were accessed through Browse Dutch Natural History Collections: BioPortal (Naturalis) (<http://bioportal.naturalis.nl/>), Herbarium of Singapore Botanic Gardens (SING) were accessed through BRAHMS Online managed by University of Oxford (<http://herbaria.plants.ox.ac.uk/bol/sing>), Botanical Survey of India, Indian Virtual Herbarium (<https://ivh.bsi.gov.in/>), Kew Herbarium Catalogue (<http://apps.kew.org/hercat/gotoSearchPage.do>), and Plants of the World Online (POWO) (<http://www.plantsoftheworldonline.org/>) were studied and cited in the taxonomic treatment. In some cases, unavailable digitised images in the online portals were assessed by image sharing via email with the curators. Orchid species have undergone nomenclatural changes over time. Therefore, the accepted name was based on POWO.

The conservation assessment was based on information collected during the field survey and herbarium collections. The endemism of the species was also checked via the POWO (2023). The conservation status was assessed following the IUCN Red List of Threatened Species Version 2021-3 (IUCN 2022). The range of distributions and distribution maps of the species were assessed using Geospatial Conservation Assessment Tool (GeoCAT) (<http://geocat.kew.org/>) (Bachman *et al.* 2011). The extinction risk for the species was determined based on Criteria A, C and D. To allow the underlying data to be analysed, a set of standard terms (Classification Schemes) (<https://www.iucnredlist.org/resources/classification-schemes>) developed by IUCN for documenting taxa on The IUCN Red List was followed. Additionally, a heatmap for the mean temperature trend of Peninsular Malaysia from January 2012 to April 2022 was designed us-

ing Inverse Distance Weighting (IDW) interpolation method di QGIS 3.10 [Copyright(c) 2004–2020 QGIS Development Team, Website: <https://www.qgis.org/>] with distance coefficient of 2 and pixel size 0.001, and interpolation of 11 climate stations or temperature stations data (Sitiawan, Lubok Merbau, Ipoh, Cameron Highlands, Batu Embun, Muadzam Shah, Temerloh, Kuantan, Subang, Petaling Jaya, and KLIA Sepang) from Malaysia Meteorology Department. It is important to note that these weather stations were placed under artificial shade, not within vegetation cover.

TAXONOMIC TREATMENT

Pinalia elata (Hook.f.) Kuntze, Revis. Gen. Pl. 2: 679 (1891). ≡ *Eria elata* Hook.f., Hooker's Icon. Pl. 19: t. 1848 (1889) (Hooker 1889, Ridley 1924). Type: PENINSULAR MALAYSIA. Perak: *B. Scortechini 569b* (**lecto-type designated here**: K-photo!; barcode: K000827353; **isoelectotypes designated here**: CAL-photos!; barcodes: CAL0000000280, CAL0000000281).

SPECIMEN EXAMINED: PENINSULAR MALAYSIA. Pahang: Mount Ulu Kali, ca. 1700 m elev, 24 October 2018, *E.E. Besi, D. Sandin, P.J. Satap & R. Go EDW147* (UPM!) (Fig. 1–2).

ADDITIONAL SPECIMENS EXAMINED: PENINSULAR MALAYSIA. Pahang: Ulu Kali, 6 November 1969, *E.F. Anderson* (GH-photo!; barcode: 02126402); Ulu Kali, 12 October 1974, *M.M.J. Balgooy 2141* (NY-photo!; barcode: 04088049); Bentong, Genting Highlands, Mount Ulu Kali, 24 August 1971, *J.B. Lowry 450* (KLU!); Bentong, Genting Highlands, Mount Ulu Kali, mossy forest, 29 January 1978, *B.C. Stone BCS13553* (KLU!); Bentong, Genting Highlands, Mount Ulu Kali, montane elfinwood thickets, 21 December 1982, *B.C. Stone BCS15362* (KLU!); Bentong, Genting Highlands, Mount Lari Tembakau, trail to the summit, 1,720 m a.s.l., 15 January 1994, *A. Noorsiha, S. Kamarudin, B. Baya FRI41043* (KEP!); Bentong, Genting Highlands, trail to Batu Tunggul, 17 January 1994, *B. Perumal, C.L. Gan, Angan, Bedul FRI41658* (KEP!); Bentong, Genting Highlands, Mount Ulu Kali, roadside near telekom tower, 24 March 2008, *S.N. Phoon FRI60489* (KEP!); Bentong, Genting Highlands, Mount Chin Chin, 14 November 2009, *A. Faiz FA007* (UPM!); Ben-

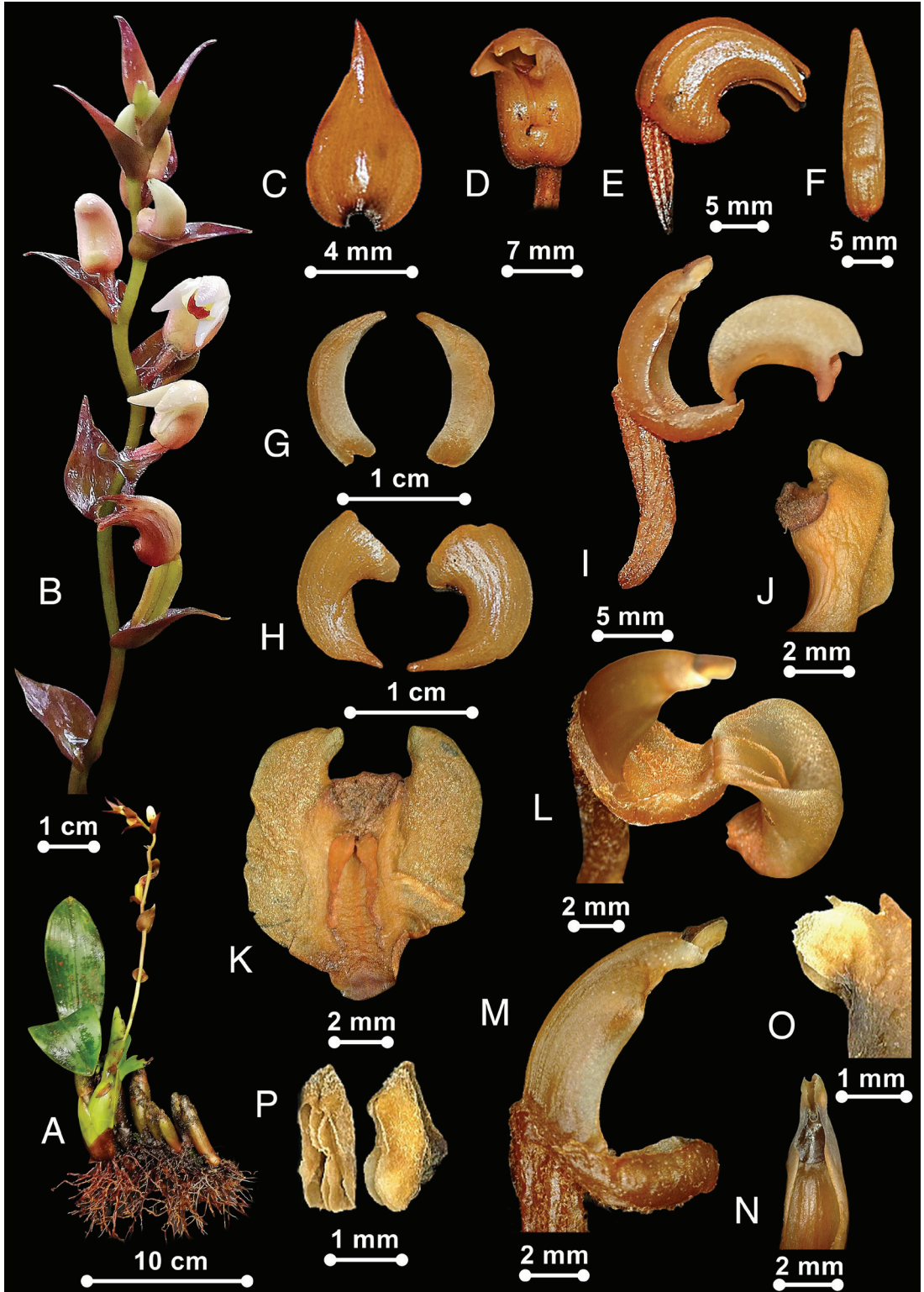




FIGURE 2. Plant of *Pinalia elata* growing in-situ, in a montane habitat that is always cloaked by mist, cold, and experiencing high rainfall is an ideal habitat for *P. elata*. **A.** A plant growing on *Leptospermum* branch. **B.** A plant showing an erect inflorescence. **C.** Front view of the flower. **D.** Lateral view of the flower. Images by Edward Entalai Besi and Rusea Go.

LEFT, FIGURE 1. *Pinalia elata*. **A.** Plant. **B.** Raceme showing floral bracts. **C.** Floral bracts. **D.** Flower, front view. **E.** Flowers, lateral view. **F.** Dorsal sepal. **G.** Petals. **H.** Lateral sepals. **I.** Column + labellum, lateral view, showing non-saccate base. **J.** Labellum, lateral view. **K.** Labellum, flattened. **L.** Column + labellum, top view, showing labellum base hinged to the shortly pubescent column foot. **M.** Column with anther attached. **N.** Column apex, front view, showing concave with two wing-like stelids. **O.** Stellidia, lateral view, showing dentate outer margin. **P.** Flat anther-cap, front, and lateral views. Images by Edward Entalai Besi.

tong, Genting Highlands, Mount Chin Chin, 15 December 2009, *A. Faiz, FA019* (UPM!); Bentong, Genting Highlands, Mount Lari Tembakau, 12 June 2009, *Shahrudin SHA007* (UPM!); Bentong, Genting Highlands, Mount Lari Tembakau, 21 October 2009, *Shahrudin SHA058* (UPM!); Bentong, Genting Highlands, Mount Lari Tembakau, 18 December 2009, *Shahrudin SHA064* (UPM!); Bentong, Genting Highlands, Mount Lari Tembakau, 21 October 2009, *Y.J. Ng NYJ039* (UPM!); Bentong, Genting Highlands, Mount Lari Tembakau, 29 June 2010, *Y.J. Ng NYJ169* (UPM!); Bentong, Genting Highlands, Mount Ulu Kali, 3 September 2010, *Y.J. Ng NYJ200* (UPM!); Cameron Highlands, Mount Irau, 12 March 2023, *Q.A. Mad Jabar, E.E. Besi, R. Go, I. Mat Esa, S.H. Tan, M.N. Ghazalli EDW148* (UPM!); SELANGOR. Mount Mengkuang Lebar, 20 January 1913, *H.C. Robinson s.n.* (SING-photo!; barcode: 0138302).

ETYMOLOGY: According to Pridgeon *et al.* (2005) and Schultes & Peace (1963), *Pinalia* was named after Chevalier Pinal, a French botanist who collected plants in the 19th century and paid particular attention to the smaller species. However, the neotropical genus *Pine-lia* was named after Chevalier Pinel, not Pinal. Naive & Ormerod (2018) discussed the origin of *Pinalia* in their description of *Pinalia jimcootesii*, where we find: “The genus *Pinalia* was proposed by John Lindley in *Orchidearum Sceletos* in 1826, based on an unpublished name coined by Francis Buchanan-Hamilton that was derived from a local Nepalese term for an orchid species called ‘*Bun Pinali*.’ ‘*Bun*’ meaning forest, and ‘*Pinalu*’ or ‘*Pinali*’ meaning a type of forest yam (Raskoti, pers. comm.).” The specific epithet derives from the Latin ‘*elatus*’, meaning tall. Although Hooker did not specify what ‘*elata*’ refers to, it likely denotes the plant’s combined height of pseudobulb and inflorescence.

Plant epiphyte and sympodial. *Rhizome* present but not clear and aggregate. *Stems* to 3–6 cm tall, 1–2 cm wide, oblong, clustered, 2 to 3-leaved, slightly tapering towards apex, greenish brown, covered by greenish-brown, triangular and overlapping sheath, sheath 2–4 cm long; internodes present about 1.5 cm long. *Leaves* 8–10 × 3.4–3.7 cm, elliptic to oblanceolate, apex obtuse, green, venation prominent at both abaxial and adaxial surfaces, sometimes shortly petiolated or subsessile. *Inflorescence* 20 cm long, 1–2 per stem, raceme, half of the length flow-

erless with sterile bracts, emerging laterally near the base of the stem, weakly flexuous, twice longer than the vegetative part, porrect to erect, glabrous, 5–6-flowered, peduncle yellowish green with pedicel brownish and pubescent, basal part covered by 2–5 cm long, rather thick sheaths; floral bracts 1.7–2.0 × 1–1.4 cm, ovate to triangular, apex attenuate to acute, purplish brown, base reniform, clasping to the peduncle. *Flowers* 11 × 8 mm, resupinate, always closed, dorsal surface keeled, yellowish brown with the apex of the petals and sepals white, petals and sepals pointy with basal parts fused to the column foot, the apex of the lateral sepals resemble a tusk, labellum enclosed by the petals and sepals, hardly appear, except the protruding, reddish and hairy apex, scentless. *Mentum* 3 mm long, sessile, shortly blunt. *Pedicel-with-ovary* 1 cm long, clavate, greenish brown, pubescent, reddish indumentum, ribbed. *Dorsal sepal* 19 × 4 mm, hooded, lanceolate, apex acute, mostly pointing downward. *Lateral sepals* 12 × 6 mm, 6 mm wide at base, oblong, apex acute to acuminate, concave, subfalcate. *Petals* 12 × 3 mm, oblong, apex acute, subfalcate, concave, dorsal surface keeled. *Labellum* 7 × 4 mm, trilobed, distally trilobed, curved in general outline, when flat, almost rhombic (looks like a bat spreading its wings when flattened), 8 × 7 mm when flat, enclosed by lateral sepals, immobile; claw 2 mm long, decurved, rectangular, hinged to the column foot; side lobes 2.5 × 1.4 mm, large, rounded to oblong, apex free, separated from triangular mid lobe by a distinct sinus, indumentum along the upper margins, free portion 1.5 mm long; mid lobe 1.7 mm long, rounded, apex decurved, thick, papillose, papillose callus 1.5 mm wide, margin revolute, base hinged to column foot, base not saccate, with three raised keels or ridges (middle keel shorter and indistinct) continuous from the base to 2/3 length of the blade, 3 mm long, deeply furrowed on the basal half; claw 1.7 mm long, more or less rhomboid. *Column* 8 mm long (including foot), somewhat fusiform, narrower and flat towards both ends; apex 2.9 × 1.7 mm, stiff, concave with two wing-like stellidia that create the shape of the trap and dentate outer margins, resembles a venus fly trap when anther-cap removed; stellidia rounded, apex margin dentate, 1 mm long; flap 0.4 mm, triangular; foot 6 mm long, 1 mm wide at the middle, curved halfway, 3 mm wide gutter-like structure with sides raised, swollen at the basal end, basal end shortly pubescent; anther-cap 1.7 × 0.6 mm, flattened, 1.7 × 2.0 mm, orbicular when flat; pollinia not seen. *Capsules* 2 cm long, winged.

DIAGNOSTIC CHARACTERS: Fortunately, our collection of a healthy fertile individual with good-condition floral structure enabled a detailed morphological description of the species to be made. The morphological description is accompanied with additional notes on vegetative and floral parts, which are not available in the protologue. Although the sectional circumscription of *Pinalia* is still at an early stage with unresolved delineation, based on the traditional classification, *P. elata* belongs to the former *Eria* sect. *Hymeneria* by having the labellum claw attached by a hinge to the column foot and non-saccate labellum base. The basal margins of the labellum are not fused to the column margins as observed in some *Pinalia* species placed in the *Eria* sect. *Urostachya*. The lateral lobes of the labellum are not tapering and are rather widely rounded or rectangular in the middle of the labellum. The inflorescence, floral bracts, petals, sepals, and labellum were used to distinguish the taxon from others. The fertile plant is easily comparable to the other *Pinalia* species in Peninsular Malaysia by having an inflorescence with flowers well-spaced, subtended by rather large and brownish bracts, and always closed with labellum is completely enclosed by the petals and sepals. Moreover, the flowers are very distinctive due to the lateral sepals being incurved with pointy apices that somehow the form resemble a sorceress wearing a horned headdress and bat wing-like cloak with a pointed collar. Also, the labellum of the plant that we discovered is very similar to the Hooker's description of the holotype, especially on the morphology of the labellum "the orbicular lip is very peculiar; the side lips being directed inwards towards the small mid lobe forming a large sinus, and embracing the latter", as illustrated in Plate 1848, in Hooker (1889). In addition, the flower and labellum morphologies are also similar to the illustration given on one of the type specimens deposited in the Kew Herbarium (K), *B. Scortechini* 569b (barcode: K000827353). Although there is no specific designation on which type specimen, it was collected by Father Scortechini, the same collector of the holotype, in 1897, several years after the species was published. Therefore, this specimen in K is here designated as the lectotype of the name. It is clearly the basis for the name, because the specimen matches the plate in Hooker's *Icones Plantarum* and has Hooker's original sketches. Also, the two herbarium sheets in

CAL (barcodes: CAL0000000280, CAL0000000281) would become isolectotypes. The image of holotype specimen (barcode: K000827475) used in POWO for *P. elata* is wrongly assigned and must be rectified, which it is the holotype of another different species of a different section, *Cylindrolobus elatus* J.J.Wood.

HABITAT AND ECOLOGY: *Pinalia elata* grows on thick moss pads on boughs of an intermediate tree in cloud forest or mossy upper montane forest and elfin forest, at an elevation of 1600–1800 m of altitude (Fig. 2). In Genting Highlands, based on genus and family dissimilarities, the forest at an elevation of 1100–1700 m can be classified as an upper montane forest (Nakashizuka *et al.* 1992). The upper montane and elfin forests are often referred to as 'cloud forest', since they are constantly intercepted with clouds and are often drizzling, even in the afternoon, contributing to the high moisture in the area. The elfin forest is characterised by having stunted, twisted trees with its canopy of 5–7 m tall, dense, flattened crown with coriaceous leaves (Stone 1981), such as *Dacrydium comosum* Corner, *Leptospermum javanicum* Blume, and *L. polygalifolium* Salisb., where the latter *Leptospermum* species or *gelam bukit* are the common phorophytes for *P. elata*. *Leptospermum amboinense* Blume is also seen growing within the same summit area. All three of these previous of *Leptospermum* were often misidentified as *L. flavescens* Sm.

Studies conducted on *P. elata* in the wild have shown that plants typically flower in October–November. Despite observations made during the visits, no pollinators were observed in its natural habitat. Information on pollinator visitation in the natural habitat for many orchid species remains limited as it is often accidental. However, crab spiders from the family Thomisidae were sometimes seen probing and feeding on plant materials or exudates on the floral parts of orchids, including *P. elata* in its natural habitat. However, no pollinarium removal or deposition by the crab spider was observed in *Pinalia* flowers (Fig. 3). Crab spiders are known to be insectivorous predators that prey on insects visiting the flowers. So, their presence on the flowers is not surprising. They may catch pollinating insects or discourage them from visiting the flowers. But spiders can benefit plants as they also eliminate plant-eating insects and

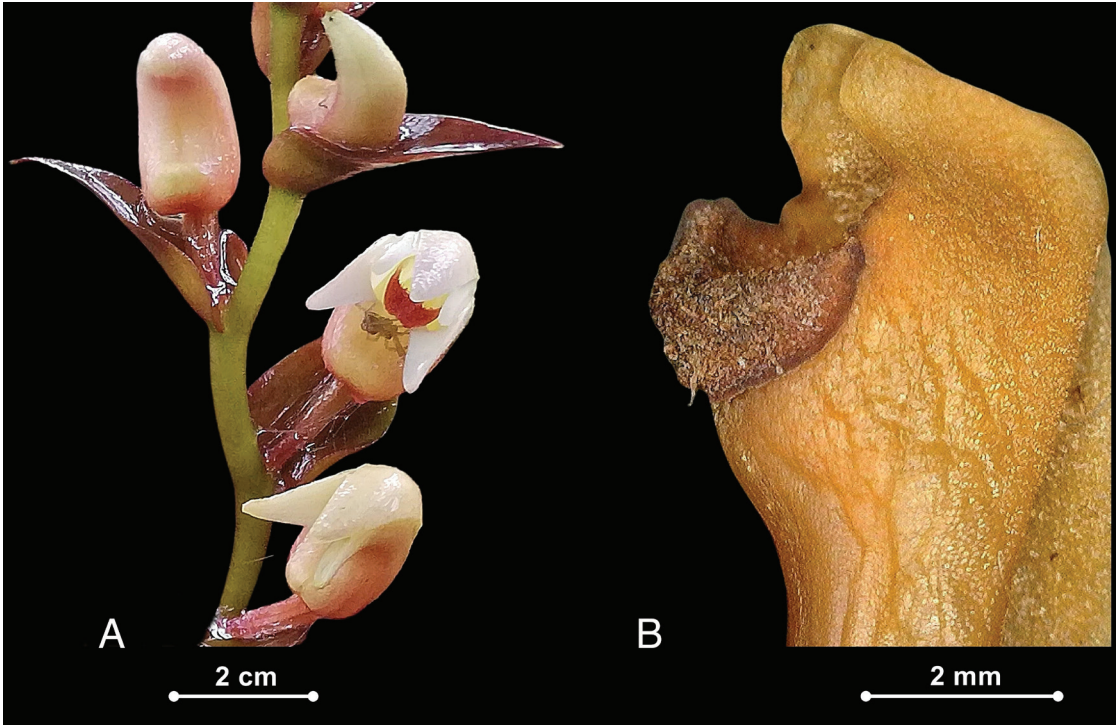


FIGURE 3. Flower of *Pinalia elata*. **A.** Rachis showing an opened flower with a prominent reddish and papillose labellum midlobe, and a crab spider can be seen feeding on exudate on the lower surface of the labellum. **B.** Lateral view of the spirit-preserved labellum showing papillose midlobe. Images by Edward Entalai Besi.

their larvae that feed on the floral parts and damage the plant (Knauer *et al.* 2018, Vasconcellos-Neto *et al.* 2017). Information on plant-spider relationships is scattered throughout the literature, but a question remains: are crab spiders or spiders capable of cross-pollinating the ‘almost’ unopened flowers of *P. elata*? While unopened flowers such as those of *P. elata* are capable of autogamy resulting in fruit production, further study is needed to verify if crab spiders can remove the pollinia by fitting through the small opening of the *P. elata* flowers. The flat-shaped anther can be easily removed from the column apex; however, the narrow openings of the thecae may hinder pollinia removal. Also, the flowers did not emit any notable scent; suggesting that pollinator visitation was mostly triggered by the contrast of the bright reddish labellum. It can be supposed that the pollination strategy of *P. elata* is by both deception and reward.

DISTRIBUTION AND ENDEMISM: It is a narrow endemic species confined to montane forests in Titiwangsa Range

in Peninsular Malaysia. The primary specimen was found in the summit area of Genting Highlands, and the exact locality is withheld in this paper to protect the population from illegal collections. The summit area in Genting Highlands is located within Bukit Tinggi Forest Reserve to the east and Batang Kali Forest Reserve to the west. Bukit Tinggi Forest Reserve covers an area of 27,791.72 ha in Bentong district, Pahang, with most of its forest with elevations of 700 m to 1000 m. However, Batang Kali Forest Reserve covers a very large area located in Hulu Selangor District, Selangor, with most of its forest above 1000 m in elevation (Ng 2012). The geographical distribution of *P. elata* in Peninsular Malaysia is as shown in Fig. 4.

CONSERVATION ASSESSMENT: Assessing the conservation status of an individual species, especially the narrow endemic ones, is often inadequate. Once the species is identified, it is necessary to relocate them in the field. *Pinalia elata* is assessed as Critically Endangered (CR), as four out of the only six known localities are

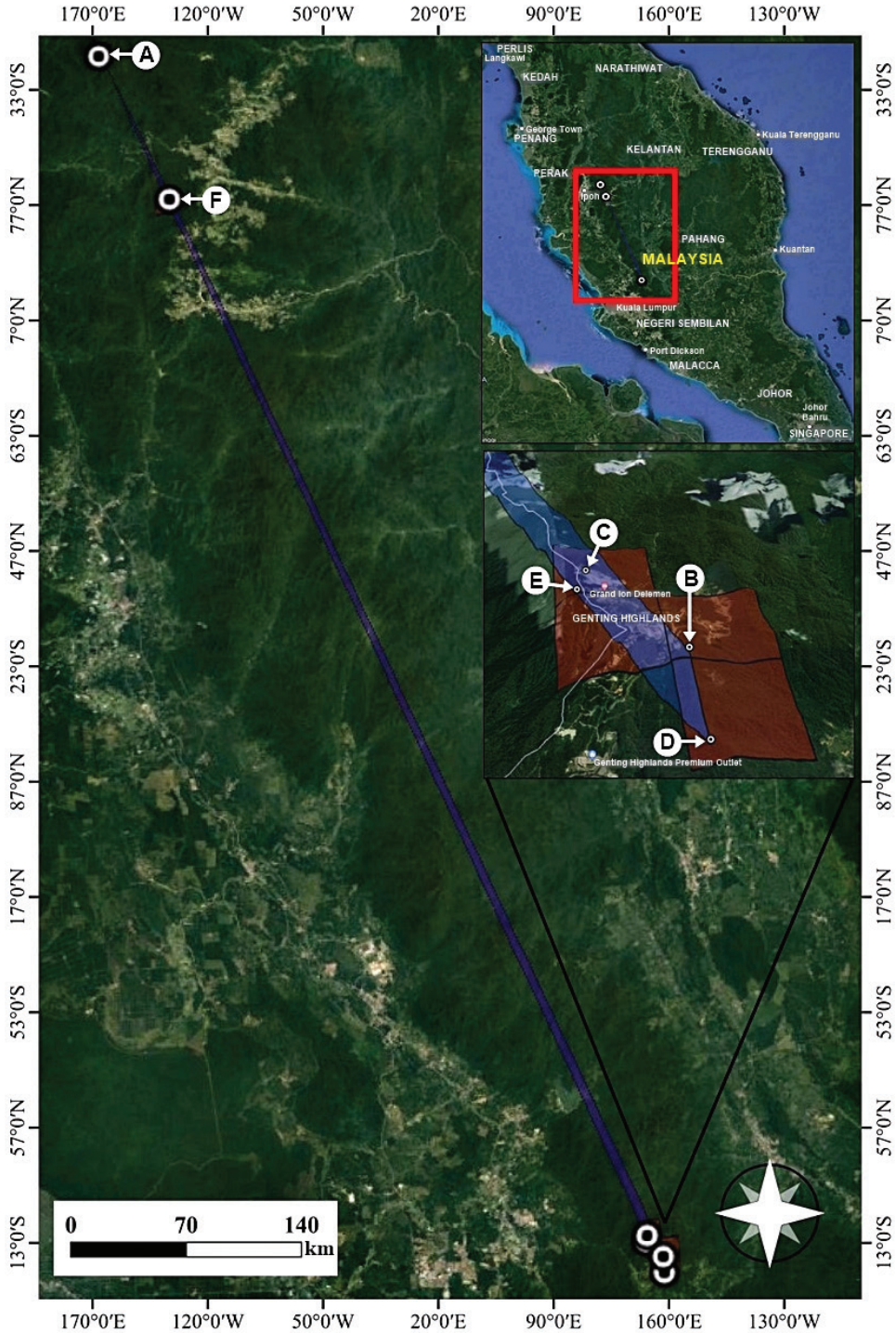


FIGURE 4. Distribution of the endangered *Pinalia elata* in Titiwangsa Range in Peninsular Malaysia. **A.** Mount Korbu, Perak. **B.** Mount Mengkuang Lebar, Pahang. **C.** Mount Chin Chin, Pahang. **D.** Mount Lari Tembakau, Pahang. **E.** Mount Ulu Kali, Selangor. **F.** Mount Irau, Pahang. Map was designed by Edward Entalai Besi and Aqlima Amiri.

TABLE 1. IUCN Red List Assessments of *Pinalia elata* (at regional and global levels) follow the IUCN protocol. Notes: CR A2acd C2a(i) D: Critically endangered with population size estimated to number fewer than 250 mature individuals and continuingly decline with no subpopulation estimated to contain more than 50 mature individuals.

Classification Criteria	Assessments
Occurring localities (Global)	6 (Peninsular Malaysia - endemic)
Occurring localities (Regional/ Malaysia)	6
Plant growth forms	Epiphyte
EOO	112.252 km ² (EN)
AOO	24 km ² (EN)
Threats	1.1 (Tourism and recreation areas); 6.1 (Recreational activities)
Severely fragmented	Yes, so far it has only been recorded in six localities within a mountain range in Peninsular Malaysia, four of which are highly fragmented due to the development of a highland tourism spot
Extreme fluctuations	No
Continuing decline	Yes (quality of habitat and number of mature individuals)
CITES Appendix	II
Previous assessment (IUCN)	NE
New assessment (IUCN criteria A, C, D)	CR A2acd C2a(i) D

now highly disturbed. The estimated extent of occurrence (EOO) and area of occupancy (AOO) are narrow (Table 1) and fall below the threshold for threatened IUCN category. Additionally, there is a continuing decline in the extent and quality of habitat.

The imminent threat faced by this endemic species is the loss of habitat due to tourism development. The development in Genting Highlands has significantly affected the cloud forest in the summit area of Genting Highlands, which comprises Mount Ulu Kali, Mount Chin Chin, Mount Mengkuang Lebar, and Mount Lari Tembaku. These four of six localities for *P. elata* are under threat. For instance, the summit of Mount Mengkuang Lebar has now been entirely developed into a theme park. The impact of development on this region

is clear when we consider the findings of Chua & Saw (2001), who found that at least four out of nine plots established by Stone had been replaced with buildings after 25 years. Chua & Saw (2001) observed changes in species composition and identified severe environmental changes in the summit area in Genting Highlands. Similarly, Bedawi *et al.* (2009) reported that 80.5% of the terrestrial pteridophytes previously recorded by Piggott (1977), were no longer found in the area. This indicates a significant loss of original biodiversity in the region. Fragmentation of forests may have negative impacts on some plant species, while others may not be affected (Chua & Saw 2001). The hypothesis is that climate change did occur in the summit area of Genting Highlands. This assumption is based on the fact that climate change is a global and regional phenomenon, even in Peninsular Malaysia. Globally, the average temperature has increased by approximately 0.6°C (Root *et al.* 2003). Data from the Malaysian Meteorology Department (2022) shows that Peninsular Malaysia has experienced a mean temperature increase of 0.01°C to more than 0.04°C per decade between 2012 and 2022, based on 11 stations (Fig. 5). The map illustrates that the mean temperature of the six localities of *P. elata* has increased by 0.01–0.02°C in their respective areas (Fig. 5).

Similar to other mountains in central Peninsular Malaysia, such as those in the Titiwangsa Range, Cameron Highlands has also experienced a slight increase in its temperature. The mean daily temperatures at Cameron Highland Station have increased by 0.7°C over the past ten years (Malaysian Meteorology Department 2022). Furthermore, the mean minimum temperature has shown a warming trend of 0.2°C over that period when compared to the last 25 years. At Habu Station, daily temperatures have increased by 1.5°C and 0.6°C at Tanah Rata Station over the last 25 years. Moreover, the mean minimum temperature has shown a warming trend of about 2°C over this period (Barrow *et al.* 2010). All these supported the claim that the summit area in Genting Highlands and Cameron Highlands most likely have undergone climate change since the areas do not stand on their own. Forest fragments in the upper montane forest are susceptible to drought and lack the resilience to withstand high temperatures and increased exposure to dry winds (Smith 1979). As a result, many of the epiphytic orchids and bryophytes

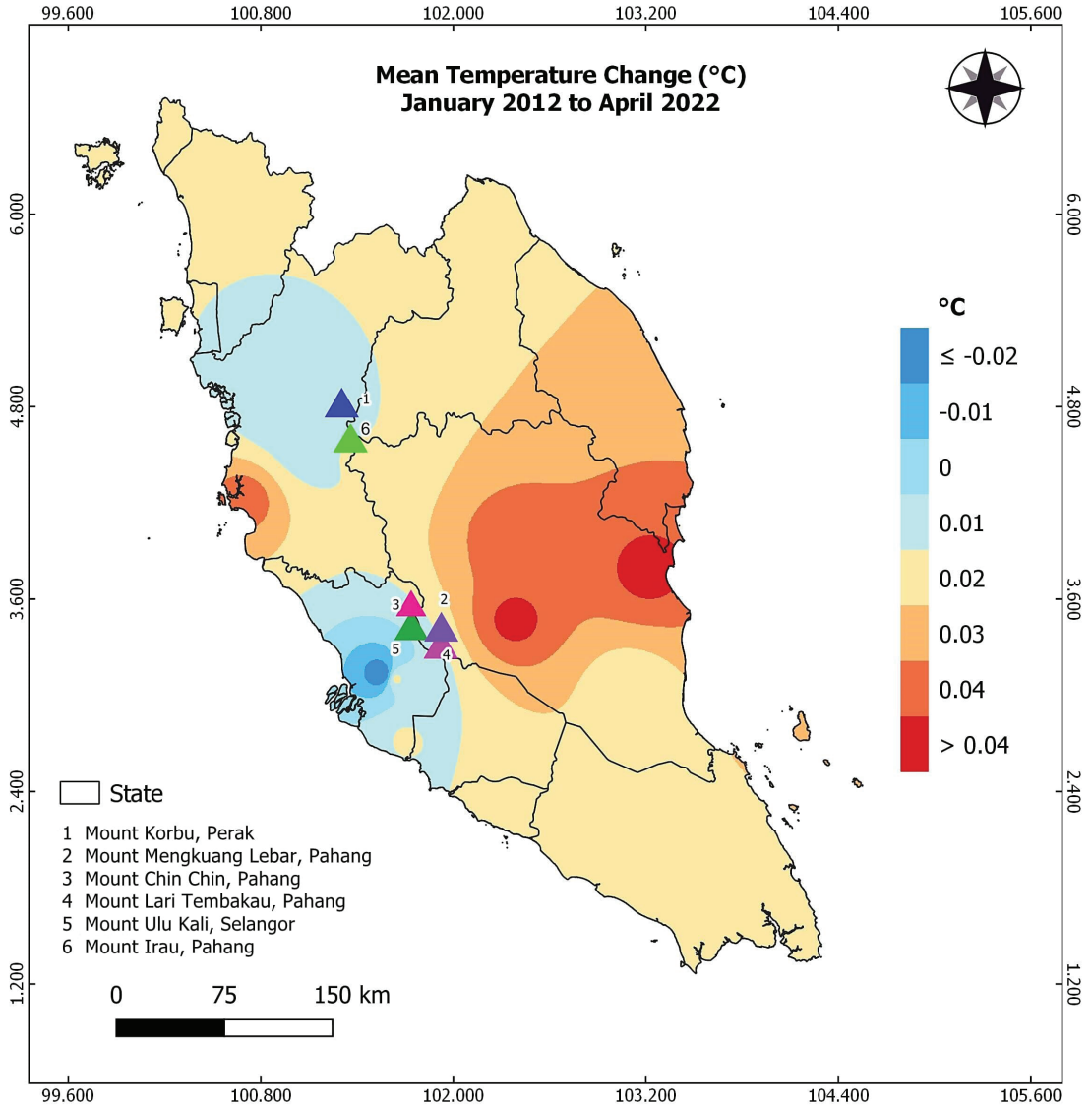


FIGURE 5. Map showing the mean temperature trend of Peninsular Malaysia from 2012 to 2022 (Source of the raw data: Malaysia Meteorology Department), with particular focus on the current localities of *Pinalia elata*. Data validation and map design were by Edward Entalai Besi and Suzika Juiling.

in the summit area turn yellowish or brownish because of sudden drops in moisture levels. Highland epiphytic orchids require high-moisture environments and often colonize the constantly moist trunks and branches covered by mosses and lichens. The change signifies their sensitivity to atmospheric changes (Foster 2001). Also, trees in the montane forest are susceptible to decay due to the sudden fluctuations in temperature and moisture stress at anthropogenically created forest edges. For

instance, one of the very few known phorophyte trees of *Hymenorchis javanica* (Teijsm. & Binn.) Schltr. in Malaysia died and collapsed, and its occurrence in the country has only been recorded in Genting Highlands.

Even worse, the construction of a private helipad and public car park near Chin Swee Caves Temple in Genting has caused the extermination of the only known population of critically endangered *Paphiopedilum lowii* (Lindl.) Stein. in the Genting Highlands

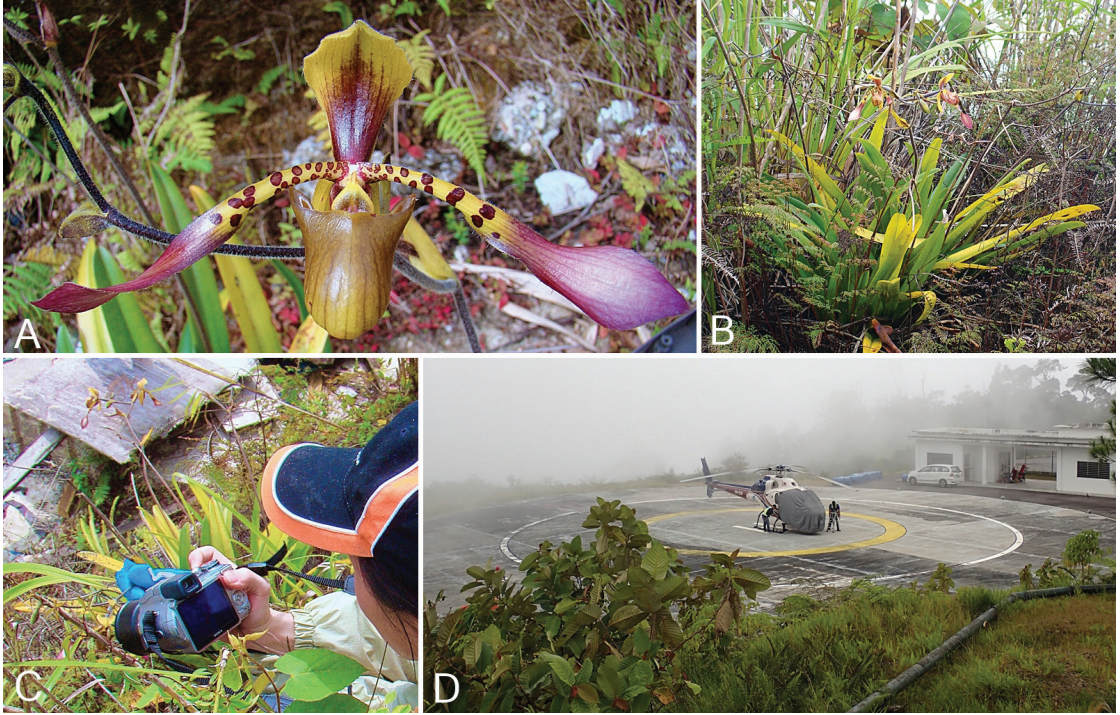


FIGURE 6. Previously known habitat of endangered wild orchids in Genting Highlands, showing the degraded montane forest in Peninsular Malaysia over a period. Here, for example, clearance of the *Paphiopedilum lowii* habitat for constructing a helipad and car park area in Genting Highlands. A–C. A flowering plant of *P. lowii* captured in its natural habitat at the Chin Swee Caves Temple area in 2009. D. 12 years later, the natural habitat of *P. lowii* is cleared for a helipad and car park area. Images by Rusea Go.

area (Fig. 6). While many orchids are successful colonisers throughout the elevation gradient, hyper-endemic and highland species are much more specialized in their habitat requirements. Consequently, the failure to take conservation action - both *in situ* and *ex situ* - to protect the habitat and population of these rare species has put them at grave risk of extinction. Habitat destruction and fragmentation, combined with climate change, threaten to extirpate these endemic species locally or drive them to extinction altogether. It is therefore urgent to prioritize the conservation of the summit area in Genting Highlands, as many species can only thrive in this unique environment with its distinctive climate conditions.

To support the IUCN Resolutions and Recommendations, and to meet the goals of the Convention on Biological Diversity (CBD) Aichi Biodiversity Targets, it is crucial for management or advisory groups, as well as developers, to recognize the significant risks associated to unrestrained and poorly governed

downgrading, downsizing, and degazettement of the protected areas. Such actions can have a detrimental impact on biodiversity and exacerbate the effects of climate change. To combat habitat loss, targeted approaches should be taken, including: (1) assessing of the population size and structure of a species to determine whether the populations can sustain themselves; (2) identifying and assessing the current and future threats to a particular site; and (3) collecting seeds or cuttings for germplasm conservation purposes. Mapping the distribution of endangered species is an essential step in identifying areas that require protection. These can be put forward as areas for protection. The detailed assessments following the IUCN Classification Schemes are shown in Table 1. The best protects endangered plants, it is necessary to safeguard their habitat, especially those habitats that are rich in endemic species, such as Gunung Chin Chin and Gunung Ulu Kali in Genting Highlands (Ashton 2008). The Forest Department of Peninsular Malaysia (FDPM)

has implemented various measures to conserve highly endangered populations, including the establishment of Virgin Jungle Reserves (VJRs) and Key Biodiversity Areas (KBAs). VJRs are particularly effective for protecting small areas that contain rare species (Laidlaw 1998). The long-term conservation goal is to promote the biodiverse mountain areas as KBAs. VJR are ideally suited to protecting small areas, particularly those containing rare species (Laidlaw 1998). The long-term conservation goal is to promote the biodiverse mountain areas as KBA. These conservation approaches could play a significant role in supporting the rapid socio-economic development of ecotourism in Genting Highland. In line with the IUCN One Plan Approach, *in situ* conservation should be prioritized, with *ex situ* conservation serving as a supplementary or alternative option when *in situ* conservation is not possible. Many ecotourism areas in Peninsular Malaysia lack professionally organized and accredited *ex situ* conservatories, botanical gardens, and/or orchards as sources for germplasm. Given the World Conservation Congress (WCC) 2020 Resolution 079, which emphasizes the importance of linking *in situ* and *ex situ* efforts to save threatened species, *ex situ* conservation is becoming more crucial as back-up for conserving plants in the wild. This is especially important when many plants are facing threats in their natural habitats (Heywood 1990). *Ex situ* conservation involves not only taking whole plants to be planted in a botanical garden, but can also include certain plant parts, such as seeds, tissues, or genetic materials, including field gene banks, clonal collections, and germplasm banks (Ashton 1987) in order to secure the genetic materials. In the case of orchid species found in the summit area in Genting Highlands, *ex situ* conservation may be particularly relevant for narrow endemic species or populations that are vulnerable to extinction in their natural habitat. Some parts of the summit area in Genting Highlands are highly accessible to the public for recreational purposes. In addition to the summit area, the lowland and hill forest areas within the Batang Kali have become hotspots for illegal collection. However, this claim lacks substantial evidence and is based only on casual and personal observation. Coupled with habitat destruction, the illegal harvesting of orchids from the wild, especially the attractive and rare species with high commercial demand, has put these species under

extreme pressure and led to significant reductions of their populations. Recently, one of the entrances to the mossy forest, which is also one of the known habitats of *P. elata*, but was previously a popular hiking spot, has been gazetted as privately managed conservation area by Environmental Services Department, Resorts World Genting Awana. The Environmental Services Department has stepped up its commitment to nature tourism and the conservation and sustainable use of this pioneering discovery area of biodiversity and is now introducing and consolidating conservation practices. Since 2015, they have started conducting proper botanical inventories and research to locate the flagship species and understand population fluctuations prior to *in situ* and *ex situ* conservation.

Conclusions. The identification of the lesser-known *P. elata* is complemented here by a detailed morphological description and clear photographic evidence. This information is useful for subsequent taxonomic studies of this taxonomically complex genus. Additionally, the photographic evidence of the plant in its natural habitat can serve as a basis for subsequent phenological studies. *Pinalia elata* represents a notable example of local endemism and a threatened species in Malaysian flora, with a narrow distribution and habitat niche confined to montane forest area. Therefore, protection of the montane forest area should be considered as a matter of the highest priority. Although the current conservation status assessment was partly based on an herbarium study, an approximation of the extent of occurrence, area of occupancy, and threats can be obtained. As one of the most famous tourist sites in Peninsular Malaysia, the development of Genting Highlands is inevitable, and the consequence is that its natural habitat will be affected. Nevertheless, conservation can still be carried out in the area. Conservation actions are crucial ensure the sustainability of this ecosystem and its biodiversity. This study provides the information needed and suggestions for conservation efforts in the summit area in Genting Highlands, especially towards orchid species. The current information is essential to further inform knowledge of biodiversity and conservation through its application in assessment for the IUCN Red List, IUCN Green List, and proposal for Key Biodiversity Area (KBA).

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**ORCHIDS OF THE SOUTHERN CONE (1830–2000) – PART III.
KARL FRIEDRICH REICHE’S *ORCHIDACEAE CHILENSIS*
AND A COMMENTARY ABOUT FRIEDRICH WILHELM LUDWIG
KRAENZLIN’S *ORCHIDACEARUM GENERA ET SPECIES* (VOL. 2, PART I)**

CARLOS OSSENBACH

Orquideario 25 de Mayo, Sabanilla de Montes de Oca, San José, Costa Rica
cossenbach@opbarquitectos.com

ABSTRACT. Karl Reiche (1860–1929), a German botanist, arrived in Chile in 1889 as a professor at the Lyceum in the city of Constitución. He was attracted by the country’s climate and its traditional friendliness to German immigrants. A few years later, in 1897, Federico Philippi, Director of the Museo Nacional de Historia Natural, welcomed Reiche as the new Head of the Botanical Section, a position he held until 1910. During his 21 years in Chile, Reiche worked intensively on the Chilean flora and was a prolific writer. Besides six volumes of the *Estudios críticos de la Flora de Chile* (1896–1911), several editions of Reiche’s Plant Geography of Chile were published (1907, 1934–1937, 2013), a magnificent essay on Chiles’ Orchidaceae, *Orchidaceae Chilensis* (1910, reprint 2007), and several other minor works. On Reiche’s suggestion, The Museo Nacional engaged Friedrich Kraenzlin (1847–1934) to write a treatment of the orchids of the Southern Cone. It was published in 1904 as the second volume of *Orchidacearum Genera et Species*. This work was widely criticized by many botanists, including Reiche himself.

Keywords / Palabras clave: Karl Reiche, Friedrich Kraenzlin, Federico Philippi, Museo Nacional de Historia Natural de Chile, National Museum of Natural History of Chile, Orchidaceae.

“No product of those provided by the fertile Chilean soil to its enthusiastic investigators, seemed worthier to me to salute the country on the Centenary of its Independence than the Orchids, whose tender and showy flowers shine in its fields and mountains. The National Museum has understood that it was its duty to offer to the sons and daughters of this country a detailed study of these still little-known plants, to contribute, in turn, even modestly, to exalt the Chilean name.”

(Karl Reiche, in the introduction to his *Orchidaceae Chilensis*, 1910)

“One morning in 1897 at the Quinta Normal, Santiago: The Director of the Museo Nacional de Historia Natural, Federico Philippi welcomes the new German botanist responsible for taking the reins of the botanical section, Dr. Karl Reiche. He has been committed to maintain the National Herbarium, promoting exchanges, analyzing, increasing, and organizing the collections of the Herbarium” (Moreira Muñoz 2011).

Karl Friedrich Reiche (1860–1829) (Fig. 1), known in Chile as Carlos Reiche, was born in Dresden, the capital of the former German Kingdom of Saxony. Little is known about his early years except

that he went to the Gymnasium in Chemnitz where he participated in many excursions organized by his natural sciences professor. In 1882 he continued his studies in the nearby city of Leipzig, where he earned his doctorate in 1885.

In 1886, Reiche became a high school professor in Dresden. He remained there until 1889, when he received an offer by the Chilean government to teach mathematics, physics, natural sciences, and illustration at the recently founded lyceum in Constitución, in Chile’s central region of Maule (Fig. 2–3) (after Gunckel 1961). Reiche had applied without success for a position as a university professor in Dresden and



FIGURE 1. Karl Friedrich Reiche (1860–1929), in Ross, 1929: frontispiece.

was motivated to travel to South America, especially attracted by the rich diversity of the Chilean flora and the country's German-friendly population (Ross 1929).

From the moment he set foot on Chilean soil Reiche was drawn to the study of its local flora, to which he would dedicate the next twenty years of his life. He undertook numerous excursions throughout the country, not only collecting specimens but also conducting investigations for his future publications. Among others, Reiche went on botanical expeditions in 1896 to the rivers Manso and Palena (Fig. 4), in the south, and explored Caldera (Fig. 5), Paposo, and the Camarones and Vitor rivers in the north, several photographs of Chilean vegetation were taken during Reiche's excursions and published in 1904 in his *Grundzüge der Pflanzenverbreitung in Chile* (Fig. 6–7).

In 1897, Reiche moved to Santiago (Fig. 8) and took up the position as Director of the Botanical Section of the National Natural History Museum.

“Chilean botanical knowledge showed still many gaps, in spite of the great achievements of Claudio Gay and R. A. Philippi, this latter the father and mentor of the Museum's Director Federico Philippi” (Moreira Muñoz 2011).

Karl Reiche is considered as one of the foreign botanists to whom Chile is profoundly in debt for his botanical studies. He had studied the ample collections contained in the Museum, including those of Claudio Gay, Bertero, R. Philippi and his son Federico, working during more than 14 years to systematize, revise and add the necessary information that finally encompassed the six volumes of the *Flora de Chile*, published first as *Estudios Críticos de la Flora de Chile*, in the *Anales de la Universidad de Chile* and edited later as a separate text with the title *Flora de Chile* (Jaksic *et al.* 2012) (Fig. 9). Reiche published six volumes of this work between (1896–1911) with the help of F. Philippi and F. Johow, but it was never completed, since Reiche abruptly ended his work at the Museum in 1911, when he travelled to Mexico. Reiche's manuscripts on the Chilean monocotyledons, among them the Orchidaceae, were not included in the first six volumes of the unfinished *Flora*.

One of Reiche's professors during his time in Leipzig had been Karl George Oscar Drude (1852–1933) (Fig. 10), a German botanist and plant geographer, who would later write, together with countryman Heinrich Gustav Adolph Engler (1844–1930) (Fig. 11), the famous series of fifteen phytogeographical monographies entitled *Die Vegetation der Erde* ('The Vegetation of the Earth'), in collaboration with many outstanding experts. The work was published in Leipzig between 1896 and 1923.

When Reiche was already familiar with the Chilean flora, he was asked to author a book about Chilean plant geography for Drude and Engler's series *Die Vegetation der Erde* (= The vegetation of the earth).

Reiche completed the assignment, encompassing 222 pages with two maps and several photographs (*Vegetationsbilder*) (Fig. 12), which was published in 1907 as volume VIII of this series *Grundzüge der Pflanzenverbreitung in Chile* (Moreira Muñoz 2011). This was the first (and so far, the only) plant geography of Chile. This significant effort, which highlighted the Chilean flora in a renowned publication, was only translated into Spanish 30 years later in two volumes as



FIGURE 2. Panoramic view of Constitución, ca. 1900. In *Imágenes de Chile del 1900* (Plaza V. 2013).



FIGURE 3. Street in Constitución, ca. 1900. Unknown photographer.



FIGURE 4. Port of Raul Marín Balmaceda on the delta of the Palena River. Unknown photographer.



FIGURE 5. Harbor of Caldera, ca. 1900. Unknown photographer.



FIGURE 6. Specimens of *Araucaria imbricata* Pav. Near Tolhuaca. Photograph by Manuel Rivera. In Reiche 1907, Fig. 6.



FIGURE 7. Karl Reiche with surveying equipment on the lower course of the Corcovado River. Photograph by Paul Krüger. In Reiche 1907, Fig. 49.



FIGURE 8. Horse carriages waiting for passengers in front of Santiago's Central Station in 1890. Unknown photographer.

FLORA DE CHILE

TOMO PRIMERO

FAMILIAS 1-30

POR EL

DR. CÁRLOS REICHE

SANTIAGO DE CHILE
 IMPRENTA CERVANTES
 BANDERA, 73
 1898

Jeografía Botánica de Chile 1934–1937, thanks to G. Looser, a botanist and notable scientific communicator.

“Reiche’s long first-hand acquaintance with the Chilean flora makes this contribution a masterpiece, and all the more since fourteen years of effort had been spent with this volume in mind” (Cowles 1909). And Moreira Muñoz and Muñoz Schick added in 2013: “This work is a monument to its author and raises him to the level of his predecessors Claudio Gay and Rodolfo Amando Philippi. It is the fundamental work on which the most modern publications on the botany of Chile would later develop, such as the *Sinopsis de la Flora Chilena* of Carlos Muñoz Pizarro (1959) and the recent *Flora de Chile*, edited by the University of Concepción (1995)” (Moreira Muñoz & Muñoz Schick 2013).

The geographic distribution of the Chilean Orchidaceae is mentioned by Reiche in detail, with the general mention that there are no epiphytic orchids in the country and that terrestrial orchids are distributed in seven genera: *Altensteinia* Kunth, *Asarca* Lindl., *Bipinnula* Comm. ex Juss., *Chloraea* Lindl., *Habenaria* Willd., *Pogonia* Juss. (= *Codonorchis* Lindl.), and *Spiranthes* Rich. Orchids are mostly found in the region comprised between Chile’s central provinces in

FIGURE 9. Title page of Reiche’s *Flora de Chile*.

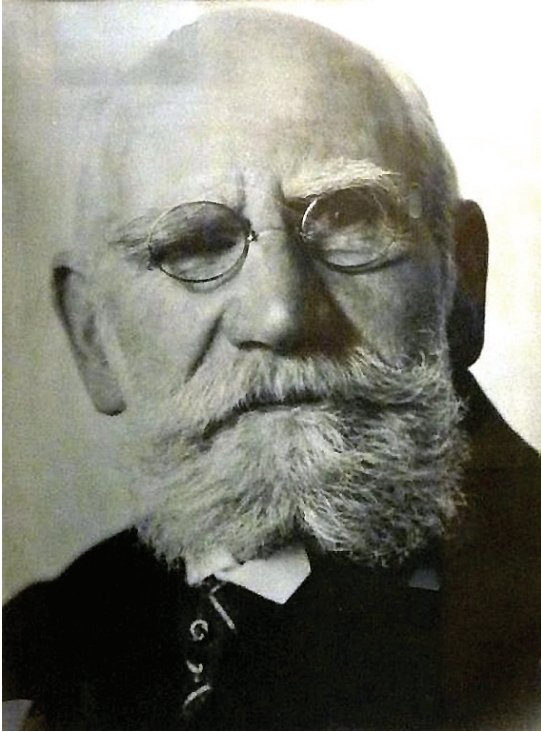


FIGURE 10. Karl Georg Oscar Drude (1853–1930). Unknown photographer.



FIGURE 11. Heinrich Gustav Adolph Engler (1844–1930). Unknown photographer.

the north (ca. 32°S), and Patagonia and the strait of Magellan in the south (Reiche 2007).

Both Drude and Engler would exert an important influence on Reiche's future work in Chile and Mexico. German botanists of the second half of the 19th century such as Oscar Drude established maps as an indispensable element of botanical observation (Güttler 2011) and Reiche would follow his former mentor closely during his later time in Chile. Reiche's interest in phytogeography became a fundamental part of his future publications (Reiche 1895a, 1895b, 1895c, 1898a, 1898b, 1903, 1907).

In 1911, after the death of Federico Philippi, Reiche had hope of being chosen to be the next director of the museum. However, the post was assigned to the professor of natural sciences Federico Fuentes. Disappointed, Reiche accepted an offer from the Mexican School of Higher Studies, as professor of botany and biology and as head of the Botanic Department of the "Instituto Médico Nacional" (Ross 1929). He returned to Germany in 1924 where he worked in Munich as a researcher at the

Staatssammlung museum. Aside from a brief return to Mexico in 1926 to complete his teaching and research, he remained in Munich and was named curator of the phanerogamic collections in the same museum (M) in 1928, the year before his death.

Reiche is commemorated in the epithet of the Hectorellaceae genus *Reicheella* Pax, as well as *Reichea* Kausel of the Myrtaceae.

KRAENZLIN'S *ORCHIDACEARUM GENERA ET SPECIES*
(volume 2, part 1, 1904)

Friedrich Wilhelm Ludwig Kraenzlin (1847–1934) (Fig. 13) was a well-known German botanist and orchidologist, closely connected to the Botanical Garden and Museum of Berlin, and with London's Natural History Museum. Kraenzlin studied chemistry and botany at Berlin and Königsberg, receiving his doctorate in 1867. He later worked as assistant to Wilhelm Hofmeister in Heidelberg and under Johannes von Hanstein at the University of Bonn. From 1872 to 1906 he was a professor and director of the botanical

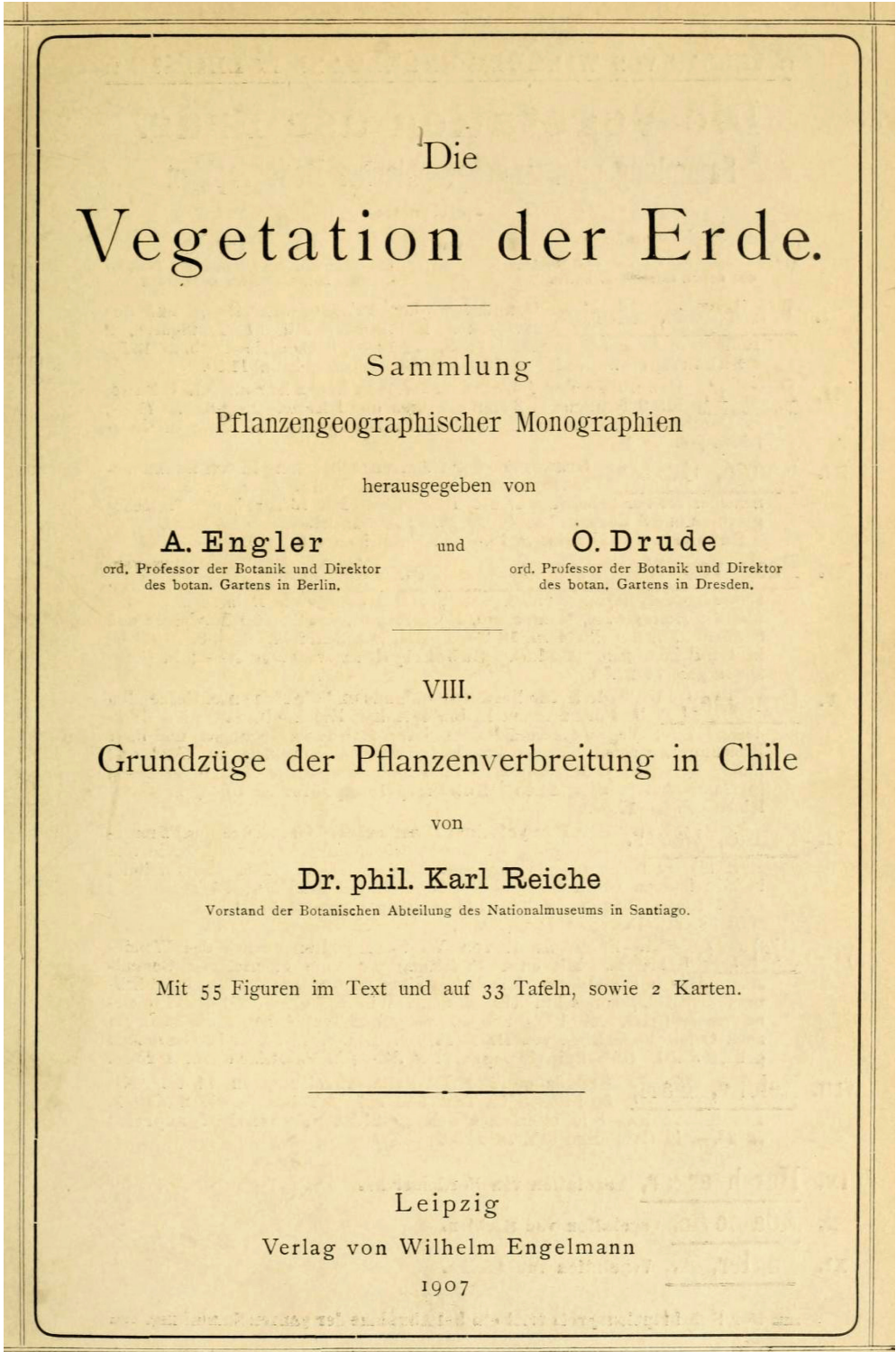


FIGURE 12. Title page of Reiche's *Grundzüge der Pflanzenverbreitung in Chile*.

garden at Heidelberg (Ossenbach & Jenny 2019). In the first edition of *Die Natürlichen Pflanzenfamilien* (= The natural families of plants), a work by Adolf Engler and Karl Prantl, Kraenzlin collaborated with Ernst Pfitzer in the treatment of Orchidaceae.

After the death of Heinrich G. Reichenbach in 1889, Kraenzlin continued with his work until the first years of the 20th century, when Rudolf Schlechter (1872–1925) took over as the leading orchidologist in the world until his own death.

In 1904, Kraenzlin published *Orchidacearum Genera et Species* (volume II, part I) (Fig. 14) which was his only direct involvement with the orchids of Chile and had its origin in an invitation from Chile's Natural History Museum. In Kraenzlin's words, "the author received from the Museo Nacional in S. Jago [sic] de Chile the commission to prepare a monograph on this group [Orchidaceae], as well as extraordinarily abundant and well-prepared material." (Kraenzlin 1897–1901, preliminary remarks to volume II). Kraenzlin limited this first part of the second volume to the Neottiinae, Chloraeae and the Monandrae, treating the genera *Asarca* Lindl., *Bipinnula* Commers., and *Chloraea* Lindl.

Kraenzlin illustrated his work with 16 plates, which show, with few exceptions, only the labellum of each species (Fig. 15). His illustrations were, however, often criticized, by Reiche among others. "Of even greater importance in the charges formulated against this book are that the labella do not always correspond to the respective illustrations. Although admitting that the contour of the labellum is sometimes variable, I will have to demonstrate that the same object, drawn by Kraenzlin, does not correspond to the illustration prepared by myself with help of the prism." (Reiche 1910). F.A.S. in 1970 views Kraenzlin's work again from a critical point of view, giving however the author the benefit of the doubt: "Kraenzlin's work was not undisputed at the time, also perhaps even at the turn of the century it had become clear that a monographic treatment of the orchids down to the species level was no longer an assignment to be undertaken by a single person" (FAS 1870).

Kraenzlin was in many regards a respectable botanist, his main weakness was therefore not a lack in preparation or general botanical knowledge, but perhaps simply the carelessness of his determinations. The

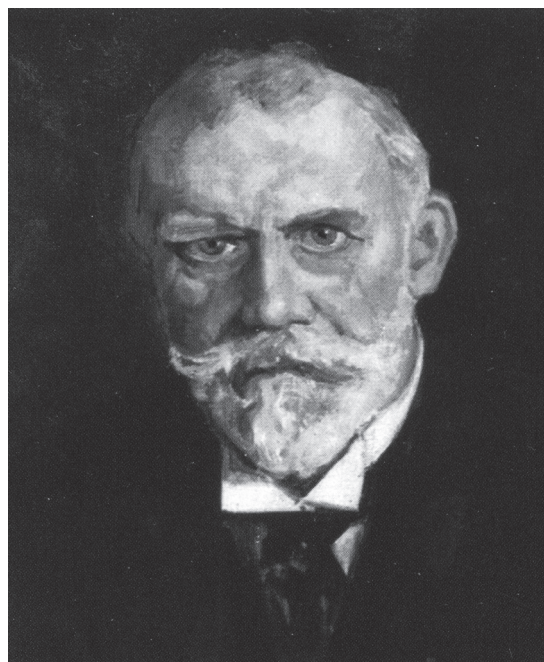


FIGURE 13. Friedrich Wilhelm Ludwig Kraenzlin (1847–1934). Courtesy of Rudolf Jenny.

condition imposed by the National Museum in Chile, that the publication should be ready as soon as possible, might have also played a negative role (Kraenzlin 1897–1901, preliminary remarks to volume II).

Rudolf Schlechter was perhaps his most severe critic. Writing to Oakes Ames on September 12, 1910, he gave his opinion on Kraenzlin's monograph of *Dendrobium*: "I am very curious to see what Kraenzlin's monograph of *Dendrobium* will be like; from what I see in the Berlin Herbarium in the way of his determinations there will be quite a lot of ridiculousness in it and this work will be the crown of foolishness in a man who really has not given a single usable work to science in spite of his long years of work. Sometimes it almost appears to me as if he is not actually determining his plants, but raffling them out." And Ames was equally critical. On December 4, 1910, he replied to Schlechter on the same subject: "I have just received Dr. Kraenzlin's monograph of *Dendrobium*. I have not yet put it to the test, but in several places, I have detected errors which are unpardonable and in every way avoidable" (Ossenbach & Jenny 2019).

Another reason to mistrust Kraenzlin's determinations is the fact that while Rodríguez *et al.* (2018) mention a total of 55 orchid species for Chile, Kraenzlin lists no less than 116 distinct species, among

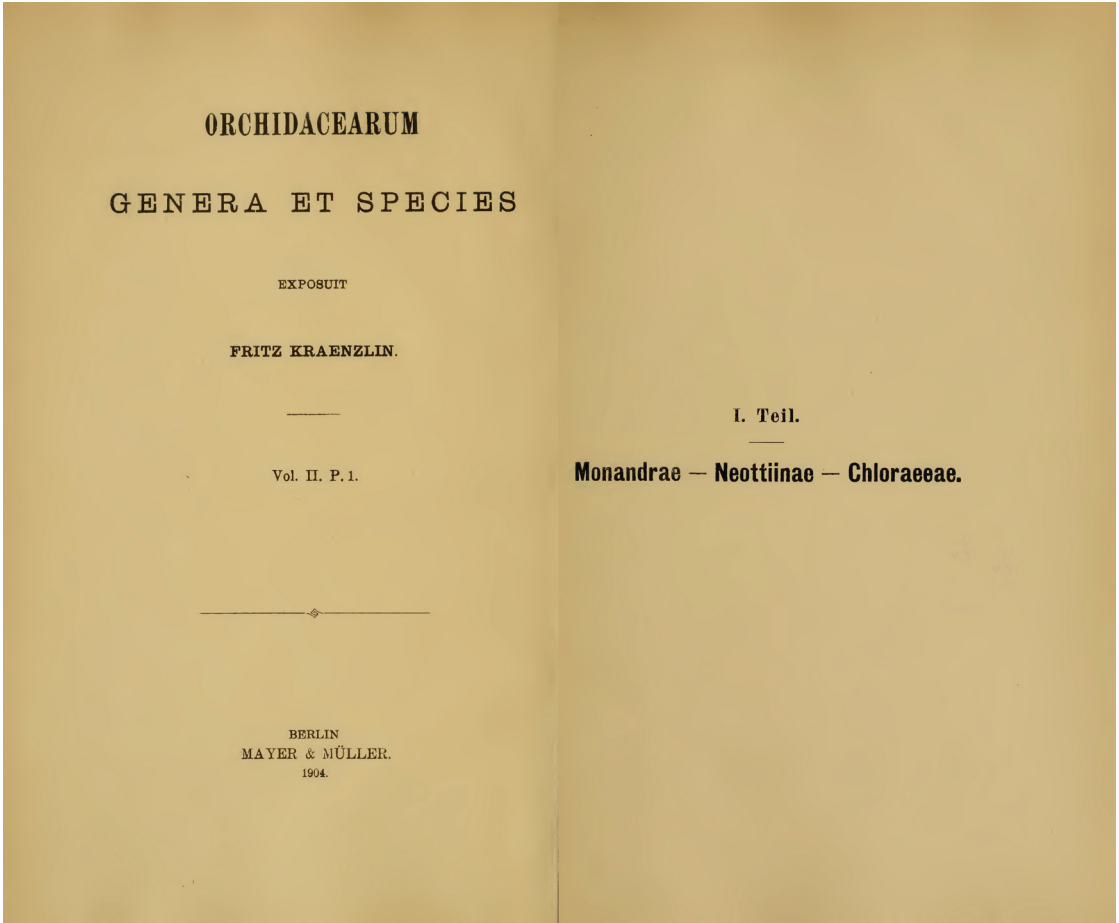


FIGURE 14. Title pages of Kraenzlin's work.

them 93 species of *Chloraea*! Table 1 lists therefore only those Chilean species which Kraenzlin considered to be new to science.

This list speaks for itself. From a total of 19 species described by Kraenzlin as new to science, only one is considered today a valid name. The rest consists of one unresolved name, and one that is found only in Argentina. The remaining 16 species were, without exception, synonyms of species described (before and after Kraenzlin) by Lindley, Poeppig, Reichenbach *filius*, R. Philippi, Correa, Hauman, and Garay and Ormerod.

Reiche's and F. Philippi's disappointment with Kraenzlin's work was so bitter, that it led Reiche to dedicate himself in depth to the orchids of Chile and to publish a few years later his own monograph on the Chilean species of Orchidaceae.

Reiche's explained his decision to publish *Orchidaceae Chilenses* (1910) describing the high hopes that had led to the National Museum's relation with Kraenzlin, and his disappointment with the results: "It is a fact, as deplorable as difficult to understand, that all publications related to the flora of Chile are deficient with respect to the orchids. Already in the first flora of Chile published by Claude Gay, the treatment of the Orchidaceae is one of the weakest. The same must be said about the most recent publication, my own *Geografía Botánica de Chile* (1907), which includes a most insufficient account of these plants. There are however few plant families which deserve such an evident neglect, since with approximately 75 species distributed in 3 genera, they play a significant role in the catalogue of the Chilean flora and the distribution of the country's vegetation.

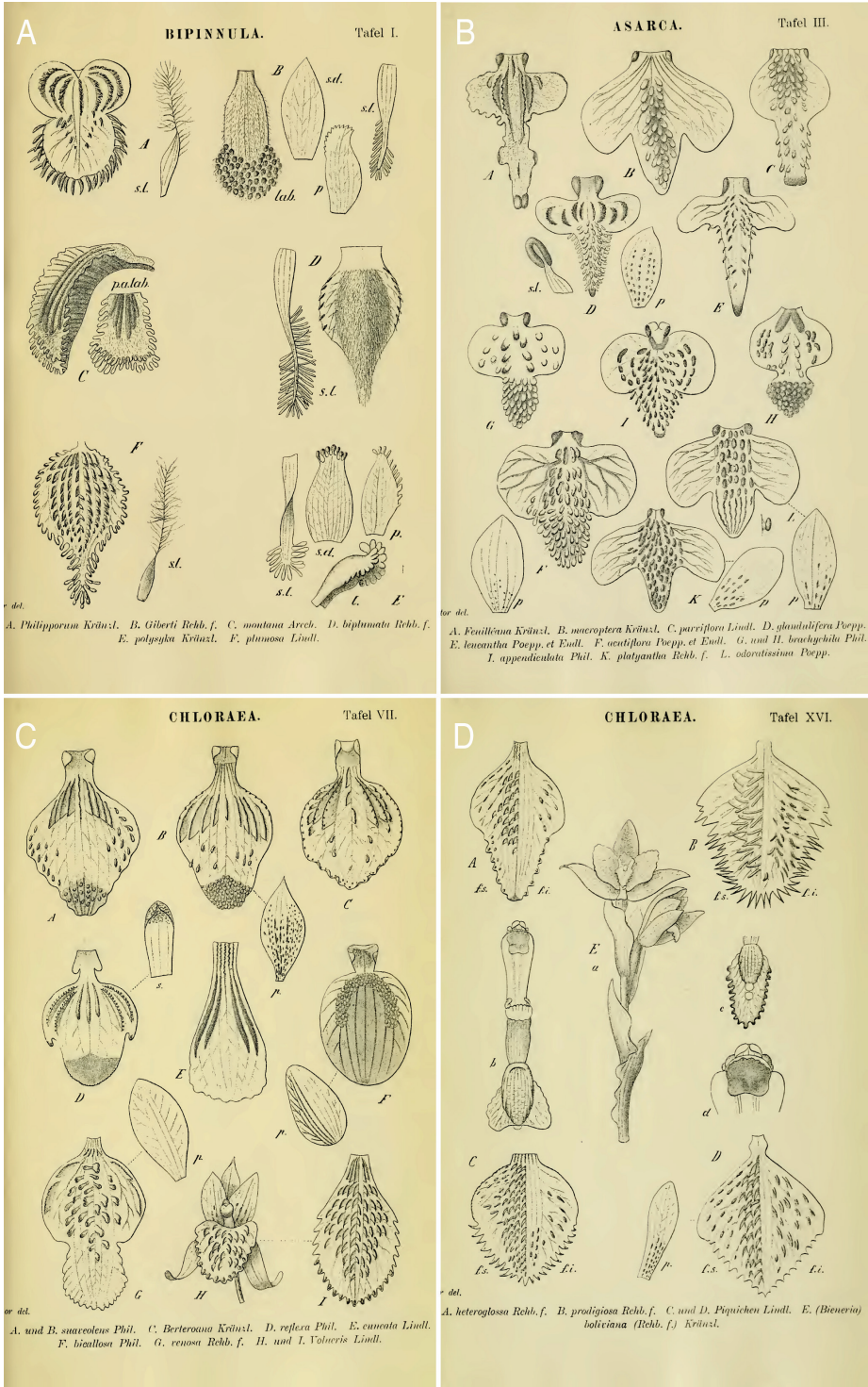


FIGURE 15. Plates in Kraenzlin's work (1897). A. Plate I (*Bipinnula*). B. Plate III (*Asarca*). C. Plate VII (*Chloraea*). D. Plate XVI (*Chloraea*).

TABLE 1. Chilean orchid species described by Friedrich Kraenzlin's in *Orchidacearum Genera et Species*, vol. II, part I which he considered to be new to science.

Name as given by F. Kraenzlin	Original collector (date)	Currently accepted name	Notes
I. <i>Chloraea</i> Lindl.	Type: Feuillée (1712–1714)	<i>Chloraea</i>	
<i>Chloraea berteriana</i> Kraenzl.	Bertero (?)	<i>Chloraea galeata</i> Lindl.	
<i>Chloraea boliviana</i> Kraenzl.	Cuming ex Rchb.f. (?)	<i>Bieneria boliviana</i> Rchb.f.	(*1)
<i>Chloraea cholilensis</i> Speg. & Kraenzl.	Spegazzini (?)	<i>Chloraea alpina</i> Poepp.	(*2)
<i>Chloraea grandis</i> Kraenzl.	(?)	<i>Chloraea bletiooides</i> Lindl.	
<i>Chloraea hemichloris</i> Kraenzl.	Neger, Spegazzini (?)	<i>Chloraea chrysochlora</i> Phil.	
<i>Chloraea hookeriana</i> Speg. et Kraenzl.	Spegazzini (?)	<i>Chloraea alpina</i> Poepp.	
<i>Chloraea johowiana</i> Kraenzl.	(?)	<i>Chloraea johowiana</i> Kraenzl.	(*1) (*4)
<i>Chloraea leucjiliflora</i> Kraenzl.	Antonio de Solís (?)	<i>Chloraea nudilabia</i> Poepp.	(*1)
<i>Chloraea liliacea</i> Kraenzl.	(?)	<i>Chloraea longipetala</i> Lindl.	
<i>Chloraea modesta</i> Kraenzl.	Philippi (?)	<i>Chloraea philippi</i> Rchb.f.	
<i>Chloraea praecincta</i> Speg. & Kraenzl.	Spegazzini (?)	<i>Chloraea praecincta</i> var. <i>intermedia</i> Hauman	(*3)
<i>Chloraea pseudocampes-tris</i> Kraenzl.	(?)	<i>Chloraea multiflora</i> Lindl.	
<i>Chloraea reicheana</i> Kraenzl.	(?)	<i>Chloraea longipetala</i> Lindl.	
<i>Chloraea stenantha</i> Kraenzl.	(?)	<i>Chloraea multiflora</i> Lindl.	
<i>Chloraea trachysepala</i> Kraenzl.	(?)	<i>Chloraea trachysepala</i> Kraenzl.	(*5) (Fig. 16)
II. <i>Asarca</i> Lindl.	Types: <i>Asarca</i> Pavón (1782–1783) (<i>Chloraea pavonii</i>) <i>Chloraea</i> Feuillée (1712–1714) <i>Gavilea</i> Poepp (1833)	<i>Chloraea</i> Lindl. and <i>Gavilea</i> Poepp.	
<i>Asarca feuilleana</i> Kraenzl.	(?)	<i>Gavilea venosa</i> (Lam.) Garay & Ormd.	
<i>Asarca macroptera</i> Kraenzl.	(?)	<i>Gavilea litoralis</i> (Phil.) M.N. Correa	
III. <i>Bipinnula</i> Comm. ex Juss.	Type: Commerson (1767–1768)	<i>Bipinnula</i> Comm. ex Juss.	
<i>Bipinnula philipporum</i> Kraenzl.	(?)	<i>Bipinnula plumosa</i> Lindl.	
<i>Bipinnula volkmanni</i> Kraenzl.	(?)	<i>Bipinnula volkmannii</i> Kraenzl.	(*6) (Fig. 17)

Notes: Rodríguez *et al.* (2018), as the most recent work on the flora of Chile, has been used as the main reference for the names of Kraenzlin's orchids as accepted today. Correa (1956, 1969), Novoa *et al.* (2006), Chemisquy (2012), and Bravo-Caballero *et al.* (2014) are indicated in the Literature section as other bibliographical references.

(*1): Only listed in the Tropicos database of the Missouri Botanical Garden (TROPICOS) and the International Plant Name Index (IPNI)

(*2) Carlo Luigi Spegazzini (1858-1926, Argentinian botanist.

(*3) Today only accepted for Argentina.

(*4) Unresolved name.

(*5) Considered a doubtful species by Correa (1969).

(*6) Kraenzlin's determination and name is valid today.



FIGURE 16. A variation of *Chloraea gaviu* Lindl. Photograph by Christian Romero.

The reason for this sad omission lies in the difficulty to describe these plants from dried herbarium specimens, and to recognize living specimens on the base of the materials in our museums. Only the cooperation between a resident researcher and a specialist related to the European museums could solve this problem.

Guided by these considerations, and having spent long years studying the local flora, in 1899 I proposed professor doctor F. Kraenzlin [Friedrich Wilhelm Ludwig Kraenzlin (1847–1934)], a reputed orchidologist from Berlin, to review the Chilean orchids based on herbarium specimens, while I personally would undertake the necessary complementary studies. The direction of the National Museum, in just appreciation of the evident necessity of such a work, had no objection to supply [Kraenzlin] with a vast collection, selected among the material that had accumulated in the Museum since 1850. This collection was enriched with drawings and watercolors from the skilled hands of R. Philippi and with ecological data resulting from my own studies.



FIGURE 17. *Bipinnula volkmannii* Kraenzl. Photograph by Diego Reyes Arellano.

As the result of the investigations on said material and a precedent work prepared by him during the years 1901 and 1902 based on specimens from Argentina and Uruguay, Kraenzlin published in Berlin in 1904 *Orchidacearum genera et species*. Vol. II p. I: *Monandrae, Neottiinae, Chloraeae*” (Reiche 1910).

Reiche explained: “Herewith [Kraenzlin’s publication] we had seemingly reached our desired goal of possessing a monograph on the Chilean orchids which would serve as a solid base for future studies” (Reiche 1910).

But Reiche’s and Philippi’s hopes soon turned into frustration. “Various attempts by Philippi and myself to classify the orchids during our expeditions with the help of this book led to a revision of Kraenzlin’s work which revealed so many errors in the analytical keys as well as in the geographical indications -without speaking of the horrendous spelling of the names of the localities- that with great sentiment we were left with serious doubts about the usefulness of this book [...].

It is equally interesting to observe that Kraenzlin's monographs on the orchids of the genus *Habenaria* (Kraenzlin 1892, 1897) again failed to provide a clear determination of the Chilean specimens.

On the other side, Dr. Kraenzlin's work has some undisputable merits, especially his arguments against the alleged synonymy of the genera *Asarca* and *Chloraea*, still proclaimed by Pfitzer (Pfitzer 1889) [Lindley, 1830–1840, had disputed the validity of *Asarca* on the basis on insufficient evidence to separate it from *Chloraea*. Correa (1956) and Chemisquy returned to Lindley's argument, transferring several species of *Asarca* back to *Chloraea* and a few others to *Gavilea*. Since then, it is widely accepted that *Asarca* is not valid as valid genus].

With this all but flattering results I began in 1907 a careful study of the orchids of Chile, expecting to describe them in the fifth volume of the *Flora de Chile*. I made in part use of course of Dr. Kraenzlin's work. But to avoid the errors of that author, I analyzed again all the vast material that had been revised by Kraenzlin [...]. The systematic part of this work [*Orchidaceae Chilenses*] is based on this research" (Reiche 1910).

KARL REICHE'S ORCHIDACEAE CHILENSES (1910)

Already in his early years in Chile Reiche had been attracted by the orchids of his adoptive country. A few types of new orchid species collected by Reiche are kept at the National Museum in Santiago, and other specimens at the Harvard University Herbaria, all dated between 1872 and 1897 (Muñoz Schick 1971): *Asarca cardioglossa* Phil. ex Reiche (Fig. 18–19), *Asarca grandulifera* var. *illapelina* Reiche, *Chloraea leptopetala* Phil. ex Reiche, and *Chloraea viridiflora* var. *reticulata* Phil. ex Reiche. One additional orchid species, *Asarca littoralis* was later described by Reiche based on *Chloraea littoralis* (Phil.).

Reiche's *Orchidaceae Chilenses* remained as the most reliable reference work on Chilean orchids for some fifty years. A total of 75 different species in seven genera from Chile were described. Most of the Chilean genera and species were not revised until many years later, by Correa (1956, 1969), Novoa *et al.* (2006), and Rodríguez *et al.* (2018). The number of accepted Chilean species dropped from Kraenzlin's 135, to 75 by Reiche, 53 by Novoa *et al.* (2006) and climbed slowly to 54 in Rodríguez *et al.* (2018) as shown in Table 2.

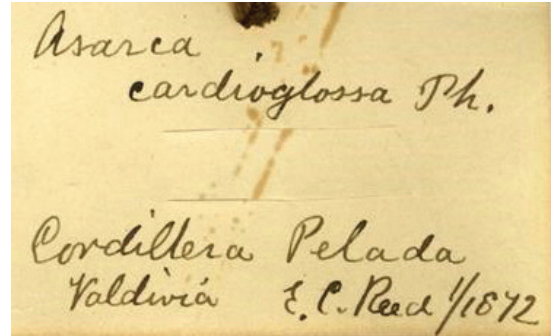


FIGURE 18. *Asarca* (= *Gavilea*) *cardioglossa* (Reiche) Mart. Specimen label at HUH 00217892.

This table is again an example of the well-known fact that while in the epiphytic world of tropical orchids dozens of new species are discovered and described every year, it often takes decades until a new species is found among the subtropical terrestrial orchids (Ossenbach & Jenny 2021).

Karl Reiche made a careful revision of all previous studies and herbarium specimens of Chilean orchids kept at the rich herbarium of the Natural History Museum. He went far back, to include orchids collected by Feuillée, Commerson, Bertero, Cuming, and those described by Gay and both father and son Philippi. But Reiche gave far more importance to the study of plants in the field. In his well-known work "*Método para el estudio de la flora de Chile*" (= Method for the study of the flora of Chile), published in 1894, he laid out the methods with which he had approached his study of the botany of Chile: "Whatever the purpose when studying the flora of a country, the fundamental problem will always be present and has to be approached immediately: the analysis and classification of the genera and species which are peculiar [to a particular region]. The method required for this purpose is to explore the country in all directions and in all seasons, to collect consciously whatever plants that can be found. As can be seen, this occupation demands more passion and interest than a thorough study of the botanical sciences. However, for the classification of all collected specimens, one needs not only a certain knowledge of the vegetal system and the morphology but have at hand the resources of libraries and museums" (Reiche 1894).

Reiche had to be particularly careful, since he was not an orchid specialist and his main interest was never the discovery of new species, but to bring order and



FIGURE 19. *Asarca* (=Gavilea) *cardioglossa* (Reiche) Martic. In Chemisquy 2012, fig. 6.

TABLE 2. Chilean orchid genera and species as accepted by different authors between 1904 and 2018. Names of genera and (in parenthesis) number of species.

Kraenzlin <i>Orchidacearum genera et species</i> (1904)	Reiche <i>Orchidaceae Chilenses</i> (1910)	Novoa <i>et al.</i> <i>Guía de campo de las orquídeas chilenas</i> (2006)	Rodríguez <i>et al.</i> <i>Catálogo de las plantas vasculares de Chile</i> (2018)
<i>Bipinnula</i> Commers. (8)	<i>Bipinnula</i> (3)	<i>Bipinnula</i> (5)	<i>Bipinnula</i> (5)
<i>Asarca</i> Lindl. (15)	<i>Asarca</i> (11)		
<i>Chloraea</i> Lindl. (93)	<i>Chloraea</i> (50)	<i>Chloraea</i> (31)	<i>Codonorchis</i> (1)
	<i>Altenstenia</i> Willd.: (1)		
	<i>Habenaria</i> Willd. (8)	<i>Habenaria</i> (1)	<i>Chloraea</i> (26)
	<i>Pogonia</i> Juss. (1)		
	<i>Spiranthes</i> L. (1)		<i>Habenaria</i> (1)
	<i>Codonorchis</i> Lindl. (3)	<i>Aa</i> Rchb.f. (1)	
		<i>Brachystele</i> Schltr. (1)	<i>Brachystele</i> (1)
		<i>Codonorchis</i> (1)	
		<i>Gavilea</i> Poepp. (13)	<i>Gavilea</i> (17)
			<i>Myrosmodes</i> Rchb.f. (1)
			<i>Ulantha</i> Hook. (2)
			<i>Correorchis</i> Szlach. (1)
Total: 3 genera with 116 species	Total: 8 genera with 78 species	Total: 7 genera with 53 species	Total: 9 genera with 55 species

clarify the endless synonymy produced during the last century (and brought to its climax by Kraenzlin in 1904) and which encompassed a large part of the orchids of Chile, from the genus to the species and varieties level. The final purpose of *Orchidaceae Chilenses* was to serve both as a monograph of this plant family in Chile, and as a field guide for future explorers of the rich Chilean flora.

Reiche's work was widely accepted by the botanical community, but perhaps the most important compliment was that of Rudolf Schlechter. In the introduction to his well-known series about the orchid floras of the South American Andean countries, he wrote: "Since not too long ago a very useful orchid flora of Chile was published by K. Reiche, I have decided not to go again into an enumeration of the orchids of this country, especially since nothing of importance can be added." (Schlechter 1919).

Although Reiche's importance in the history of Chilean botany can never be denied, he was not a particularly gifted illustrator. *Orchidaceae Chilenses*

shows several anatomic details of orchids, concentrating on lineal drawings of petals, sepals, and labella, and two plates at the end of the book with coloured illustrations of a total of 18 orchid flowers. The reprint in 2007 of Reiche's shows slightly improved lineal drawings (Fig. 20–21). The color illustrations illustrate the following orchid species: *Asarca sinuata* Lindl., *Chloraea ulantheidoides* Lindl., *Asarca odoratissima* Poepp. & Endl., *Chloraea galeata* Lindl., *Chloraea multiflora* Lindl., *Chloraea cylindrostachya* Poepp., *Chloraea fonckii* Phil., *Chloraea disoides* Lindl., *Chloraea grandiflora* Poepp., and *Chloraea nudilabia* Poepp. in Plate I (Fig. 20); and *Chloraea crispa* Lindl., *Chloraea cristata* Lindl., *Chloraea cygnaea* Phil., *Chloraea chrysantha* Poepp., *Spiranthes diuretica* (Willd.) Lindl., *Habenaria paucifolia* Lindl., *Bipinnula plumosa* Lindl., and *Pogonia lessonii* Rchb.f. in Plate II (Fig. 21).

Reiche is remembered in the following orchid names: *Chloraea reicheana* Kraenzl. (Fig. 22) and *Microstylis reichei* Schltr. (from Mexico).



FIGURE 20. Plate I of *Orchidaceae Chilenses* (original). 1. *Asarca sinuata* Lindl. 2. *Chloraea ulanthoides* Lindl. 3. *Asarca odoratissima* Poepp. & Endl. 4. *Chloraea galeata* Lindl. 5. *Chloraea multiflora* Lindl. 6. *Chloraea cylindrostachya* Poepp. 7. *Chloraea fonckii* Phil. 8. *Chloraea disoides* Lindl. 9. *Chloraea grandiflora* Poepp. 10. *Chloraea nudilabia* Poepp.

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FIGURE 21. Plate II of *Orchidaceae Chilenses* (original). 1. *Chloraea crispa* Lindl. 2. *Chloraea cristata* Lindl. 3. *Chloraea cygnaea* Phil. 4. *Chloraea chrysantha* Poepp. 5. *Spiranthes diuretica* (Willd.) Lindl. 6. *Habenaria paucifolia* Lindl. 7. *Bipinnula plumose* Lindl. 8. *Pogonia lessonii* Rehb.f.

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FIGURE 22. *Chloraea reicheana* Kraenzl. as *Chloraea longipetala* Lindl. Photograph by Jason Hollinger.

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COLOMBIAN ORCHIDACEAE: A CATALOGUE OF THE PLEUROTHALLIDINAE

ADAM P. KARREMANS^{1,2,10}, JUAN SEBASTIÁN MORENO^{3,4}, KAREN GIL-AMAYA^{1,4},
NICOLÁS GUTIÉRREZ MORALES^{4,5}, FELIPE ESPINOSA⁴, SANTIAGO MESA^{4,6},
EUGENIO RESTREPO^{4,7}, MILTON RINCÓN-GONZÁLEZ^{4,8}, ALEJANDRA SERNA^{1,4},
MARIO SIERRA-ARIZA⁴ & SEBASTIÁN VIEIRA-URIBE^{4,9}

¹Jardín Botánico Lankester, Universidad de Costa Rica. PO Box 302–7050, Cartago, Costa Rica.

²Naturalis Biodiversity Center, Evolutionary Ecology Group, Sylviusweg 72, 2333 BE, Leiden, The Netherlands.

³Departamento de Biología, Universidad del Valle, Calle 13 # 100–00, Cali, Colombia.

⁴Grupo de Investigación Schultes, Fundación Ecotonos, Valle del Cauca, Cali, Colombia.

⁵Instituto de Biociências de Rio Claro, Departamento de Botânica, Universidade Estadual Paulista - UNESP, Av. 24 A 1515, Bela Vista, 13506–900, Caixa Postal 199, Rio Claro, São Paulo, Brazil.

⁶Instituto de Biología, Facultad de Ciencias Exactas y Naturales, Universidad de Antioquia, Calle 67 #53–108, Medellín, Antioquia, Colombia.

⁷Programa de Biología, Facultad de Ciencias Exactas y Naturales, Universidad de Caldas, Calle 65 #26–10, Manizales, Colombia.

⁸Herbario JBB, Subdirección Científica, Jardín Botánico de Bogotá José Celestino Mutis, Bogotá D.C., Colombia.

⁹Grupo de Investigación en Biodiversidad Tropical - GIBIOT, Jardín Botánico de Medellín, Calle 73 # 51D-14, Medellín, Colombia.

¹⁰Author for correspondence: akarremans@gmail.com

ABSTRACT. Colombia is a major biodiversity hotspot, having one of the richest orchid floras in the world. The country spans over a million square kilometers of land, hosting a multitude of different ecosystems thanks to the complexity of its mountainous systems and influences from neighboring countries in Central and South America, as well as the Atlantic and Pacific coastlines. Prior studies found an estimated 3591–4270 species of orchids occurring in Colombia, making it the most species-rich plant family in the country. About 35% of those orchids are members of the Pleurothallidinae subtribe, the largest group in the family and also that with the highest rate of species discovery. Here we record 1862 species of pleurothallids for the country, a significant increase from the 1286–1529 range estimated just a few years ago. We expect Pleurothallidinae to represent close to half the Colombian orchid flora. Colombia hosts roughly one-third of all currently known taxa in the subtribe, and close to 60% of these species are found nowhere else in the world. These are clear indicators that the country is a highly important center of pleurothallid diversity and a key target for their conservation. The most species rich genera in the country are *Stelis* (521 species), *Lepanthes* (377 species), *Pleurothallis* (248 species) and *Masdevallia* (171 species). Country-level distribution is given for each accepted species. The closest floristic affinity is found with Ecuador, with which Colombia shares over 76% of the non-endemic Pleurothallidinae species, followed in the distance by Venezuela and Peru, with just above one-quarter of the non-endemics being shared. Numerous new country records are presented in the catalogue, many of which are illustrated with color photographs. We provide a full list of homotypic synonyms for each accepted taxon, as well as an annotated list of excluded taxa and newly proposed synonyms. Heterotypic synonyms are not listed, unless they are based on Colombian material. Typification for each accepted species is presented, with lectotypes, neotypes and epitypes being selected whenever necessary and available, as well as information regarding published illustrations.

RESUMEN. Colombia es uno de los mayores centros de biodiversidad, y cuenta con una de las floras de orquídeas más ricas del mundo. Ocupa más de un millón de kilómetros cuadrados de territorio, albergando una gran diversidad de ecosistemas gracias a sus complejos sistemas montañosos, la cercanía a varios países vecinos de Centro y Sudamérica, y la influencia de las costas sobre el Atlántico y el Pacífico. Estudios previos estimaron que Colombia cuenta con alrededor de 3591–4270 especies de orquídeas, siendo la familia de plantas de mayor diversidad en el país. Alrededor de un 35% de las orquídeas reportadas de Colombia son miembros de la subtribu Pleurothallidinae, el grupo más diverso de la familia y aquel con la mayor tasa de novedades descritas. Aquí registramos 1862 especies de esta subtribu en el país, un incremento significativo del rango de 1286–1529 especies estimado solo unos pocos años atrás. Esperamos que las especies de Pleurothallidinae representen cerca de la mitad de la flora de orquídeas Colombiana. Colombia alberga cerca de una tercera parte de todas las especies que se conocen en la subtribu, y casi el 60% de estas no ocurren en ningún otro lugar del mundo. Estos son indicadores claros que Colombia es un importante centro de diversidad de estas plantas y un sitio clave para su conservación. Los géneros más diversos en el país son *Stelis* (521 especies), *Lepanthes* (377 especies), *Pleurothallis* (248 especies) y *Masdevallia* (171 especies). Para cada especie aceptada se indica la distribución a nivel de país. La afinidad florística más estrecha se encuentra con Ecuador, con quien Colombia comparte más del 76% de las especies no endémicas de Pleurothallidinae. Le siguen a distancia Venezuela y Perú, con los que se comparten poco más de un cuarto de las especies no endémicas. En el catálogo presentamos numerosos nuevos registros para el país, muchos de ellos ilustrados con fotografías. Se proporciona una lista completa de sinónimos homotípicos para las especies aceptadas, así como una lista anotada de taxones excluidos y nuevas sinonimias. Los sinónimos heterotípicos no se listan a menos que sean basados en material colombiano. Se presenta la tipificación para cada especie aceptada, con lectotipos, neotipos y epítipos siendo seleccionados cuando es necesario y hay material disponible, y se incluye información sobre ilustraciones representativas publicadas.

KEYWORDS / PALABRAS CLAVE: Andes, biodiversidad, biodiversity, conservación, conservation, endemism, endemismo, *Lepanthes*, *Masdevallia*, *Pleurothallis*, *Stelis*, tipificación, typification

Introduction. Colombia is a major biodiversity hotspot, it has one of the richest orchid floras in the world and it represents a major diversity center for the Pleurothallidinae. It is conveniently situated in the northwestern corner of South America, being the only country in that subcontinent to have both Atlantic and Pacific coasts, a terrestrial connection with Central America, and borders with Ecuador, Brazil, Peru and Venezuela. A third of its 1,141,748 km² of land is mountainous, a preferred ecosystem for pleurothallids, with the Andes splitting into three main branches known as the Eastern, Central and Western cordilleras. Isolated mountain ranges in both the Atlantic (Sierra Nevada de Santa Marta) and Pacific (Serranía del Baudó) regions, along with fragments of the Guiana Shield in the Amazon (Serranía del Chiribiquete, Serranía de la Macarena), also contribute to this outstanding plant diversity. Colombia's National Park System consists of 56 protected areas, covering 113,910 km² of land (9.98% of the country's land area).

Orchidaceae is by far the most species-rich of all plant families of the Colombian flora (Bernal *et al.*

2016). Estimates range from 3591–4270 species of orchids in the country (Bernal *et al.* 2016, Betancur *et al.* 2015), that is up to three times as many species as the second most specious family: the Asteraceae. The cited studies find that close to 35% of all Colombian orchids are members of the Pleurothallidinae subtribe, which is the largest subtribe in the Orchidaceae (Karremans 2016, Pérez-Escobar *et al.* 2017, Pridgeon 2005). This exclusively neotropical group has one of the highest evolutionary diversification rates in the orchid family (Pérez-Escobar *et al.* 2017), and grows at a rate of little less than 100 new species recognized per year (Karremans & Davin 2017). About half of all the Orchidaceae species described yearly in the world belong to this subtribe. This means that, this is also the fastest growing group, in species numbers, of all orchids. Of the top ten most diverse plant genera in Colombia four are orchid genera, and three of them belong to the Pleurothallidinae. Orchidaceae is also the family with most species endemic to Colombia, two thirds of those are pleurothallids (Bernal *et al.* 2016, Betancur *et al.* 2015).

Organizing the wealth information regarding pleurothallid diversity in a country such as Colombia represents a real challenge. An important effort of systematically compiling the information from previous works, herbaria and libraries was made by Viveros & Higgins (2007), who recognized 1112 species in their *Checklist of Pleurothallidinae from Colombia*. Subsequent works led by the Universidad Nacional de Colombia and the Colombian Government offered exhaustive compilations of the orchids of Colombia (Betancur *et al.* 2015), followed by the even more ambitious catalogue of plants and lichens of Colombia (Bernal *et al.* 2016). Betancur *et al.*'s *Plan para el estudio y la conservación de las orquídeas en Colombia* offered a notorious increase in the number of Pleurothallidinae recorded previously, listing 1529 names. However, not all of them were supported by voucher specimens. Bernal *et al.*'s *Catálogo de Plantas y Líquenes de Colombia*, the most comprehensive checklist ever compiled of the plants in the country, resulted in a more conservative estimate of 1286 species for the subtribe.

The striking differences in species numbers between these catalogues published within a decade reflects not only how actively Colombian Pleurothallidinae have been worked on in recent years, but also how difficult it is to recover, revise and reconcile the enormous body of information on these orchids that comes from botanical databases, herbaria, monographic works and other publications around the world. An unpublished compilation of all names attributable to Pleurothallidinae by the first author today includes 5639 accepted species and almost 13 thousand described taxon names (Karremans 2016, Karremans & Vieira-Urbe 2020); close to a third of those names are referable to Colombian pleurothallids. However, the preparation of a carefully crafted catalogue of the Pleurothallidinae of Colombia can only be achieved through a collaborative effort with a network of multiple local experts, and it has to be continuously revised and updated, as there is always room for improvement.

Here, we have extracted and reviewed all the pleurothallid taxa attributable to Colombia and recognize 1862 accepted species occurring in the country (Fig. 1), with *ca.* 60% of them (1103 species) being endemic. Colombia, according to our assessment, hosts more or less a third of all the species currently recognized in the subtribe, and is by all means one of the most

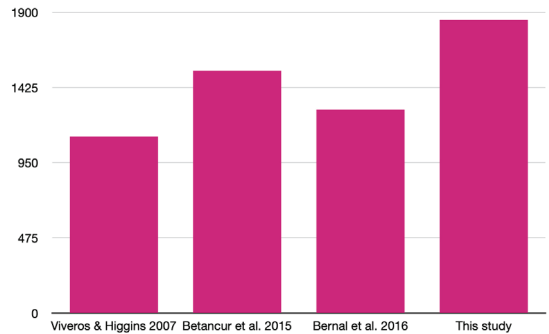


FIGURE 1. Number of accepted species belonging to the Pleurothallidinae recorded for Colombia in this and previous studies.

important pleurothallid diversity centers in the world. The current account represents a significant increase of several hundred species from the 1286–1529 range of just a few years ago (Betancur *et al.* 2015, Bernal *et al.* 2016) in the number of Pleurothallidinae recorded for Colombia. These numbers are even more notorious considering we are explicitly excluding 142 names that had been listed previously for the country (see Excluded Taxa below). This reflects not only how active the work on Colombian pleurothallids still is, but also the necessity of continued efforts to document and understand the country's extremely rich orchid flora. We hope that this catalogue serves as a tool for students, researchers, conservation and policy makers, and can be seen for what it is: a compilation, to the best of our knowledge, of the current understanding of the most species rich orchid group in one of the most orchid-rich countries in the world. And, therefore, imperfect and ever evolving.

Materials and methods. Taxa included in the catalogue have been either listed in previous works or are here cited for the first time based on materials determined by one of us. We relied on the pleurothallid monographs published by Luer (1986, 1987, 1988, 1989, 1990, 1991a, 1992, 1993, 1994, 1995, 1996a, 1996b, 1996c, 1997, 1998a, 1998b, 1999, 2000a, 2000b, 2000c, 2001, 2002a, 2002b, 2003a, 2003b, 2004, 2005, 2006, 2007, 2009a, 2009b, 2010, 2011, 2016a, 2016b, 2017a, 2017b, 2018a, 2018b, 2018c) and Luer & Thoerle (2012a), in addition to previous checklists of Colombian Pleurothallidinae (Bernal

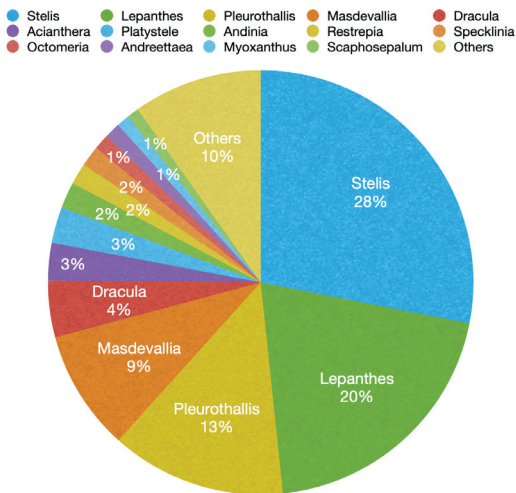


FIGURE 2. Relative abundance of species per genus belonging to the Pleurothallidinae subtribe occurring in Colombia.

et al. 2016, Betancur *et al.* 2015, Viveros & Higgins 2007), and online databases such as Epidendra, GBIF, IPNI, Tropicos and the WCSP (Govaerts *et al.* 2022).

An attempt has been made to curate previous lists of names. We include only those taxa for which a Colombian voucher was available, occasionally a photographic voucher is indicated when no physical voucher has been located. Names for which no voucher has been located are not included for the time being. A single, representative voucher is indicated for each taxon. Whenever possible, we have made an effort to revise the determination of vouchers cited in other works. This has resulted in the exclusion of certain taxa previously cited for the country. An extensive list of excluded taxa is provided at the end, these include species listed previously for which no voucher could be located, vouchers that had been misidentified, or names for which no reference could be found. The exclusion of a taxon is not evidence that it does not occur in the country, but simply that there is no voucher to support its current inclusion. Some excluded taxa, as well as other new ones, will eventually be confirmed to occur in the country. Further curation is certainly required in large and taxonomically challenging genera, especially *Lepanthes* Sw., *Masdevallia* Ruiz & Pav., *Pleurothallis* R.Br. and *Stelis* Sw. The citation of vouchers is an important step in this direction, and curation is significantly aided by the availability of illustrations and photographs based on local specimens.

Vouchers were inspected at AMES, BM, BR, CAUP, COL, CUVC, F, FAUC, FMB, G, GH, GOET, HPUJ, HUA, JAUM, JBB, JBL, K, LE, MEDEL, MO, MOL, MPU, NY, P, QPLS, SEL, TOLI, UTMC, VALLE, W, WU, US. Type specimens are given for each species discussed, lectotypes and neotypes are proposed when holotypes are lost or they were not clearly established. Unfortunately, we have not been able to locate original materials of a few taxa which remain poorly understood. These obscure species are accepted for the time being pending further evaluation. For each accepted taxon we offer a list of homotypic synonyms. Heterotypic synonyms of taxa based on Colombian specimens are listed at the end. Accepted species include country level distributions. Taxa that are endemic to Colombia are distinguished by an asterisk. A single representative Colombian voucher is given for taxa with foreign types.

Generic circumscription follows Pridgeon (2005) and Karremans (2016), with modifications proposed in *Acianthera* Scheidw. (Karremans & Rincón-González 2015, Karremans *et al.* 2016a), *Andinia* Luer (Wilson *et al.* 2017a), *Andreettaea* Luer (Doucette *et al.* 2022), *Madisonia* Luer (Smidt *et al.* 2021), *Ophidion* Luer (Karremans & Vieira-Urbe 2020), *Specklinia* Lindl. (Karremans *et al.* 2016b), *Stelis* (Karremans *et al.* 2013) and the genera in the *Anathallis* Barb.Rodr. - *Lepanthes* - *Trichosalpinx* Luer complex (Bogarín *et al.* 2019, Karremans 2014).

Results and discussion. We estimate that Colombia currently holds 1862 accepted species of Pleurothallidinae, of which 1103 species (*ca.* 60%) are endemic to the country. We expect pleurothallids to represent close to half the Colombian orchid flora. These taxa are unevenly distributed across 40 genera represented in the country (Fig. 2, Table 1), out of 46 in the whole subtribe. The numbers per genus range from a single species in *Draconanthes* (Luer) Luer, *Gravendeelia* Karremans & Bogarín, *Fronдаря* Luer, *Restrepia* Garay & Dunst. and *Stellamaris* Mel.Fernández & Bogarín, to over 500 taxa in *Stelis*. The most species rich genus in the country is *Stelis* with 521 species, followed by *Lepanthes* with 377 species, *Pleurothallis* with 248 species and *Masdevallia* with 171 species; all other genera are represented by 80 or less species. This pattern of species diversity is consistent with that we

TABLE 1. Relative number of Pleurothallidinae genera and species recorded for Colombia.

Pleurothallid genus	Overall number of species	Species occurring in Colombia	Percentage
<i>Acianthera</i> Scheidw.	311	53	17.0
<i>Anathallis</i> Barb.Rodr.	123	9	7.3
<i>Andinia</i> (Luer) Luer	79	37	46.8
<i>Andreettaea</i> Luer	57	22	38.6
<i>Atopoglossum</i> Luer	3	0	0.0
<i>Barbosella</i> Schltr.	20	5	25.0
<i>Brachionidium</i> Lindl.	83	17	20.5
<i>Chamelophyton</i> Garay	1	0	0.0
<i>Diodonopsis</i> Pridgeon & M.W.Chase	4	4	100.0
<i>Draconanthes</i> (Luer) Luer	2	1	50.0
<i>Dracula</i> Luer	141	80	56.7
<i>Dresslerella</i> Luer	14	2	14.3
<i>Dryadella</i> Luer	61	15	24.6
<i>Echinosepala</i> Pridgeon & M.W.Chase	16	3	18.8
<i>Fronitaria</i> Luer	3	1	33.3
<i>Gravendeelia</i> Bogarín & Karremans	1	1	100.0
<i>Karma</i> Karremans	75	16	21.3
<i>Lankesteriana</i> Karremans	21	6	28.6
<i>Lepanthes</i> Sw.	1196	377	31.5
<i>Lepanthopsis</i> (Cogn.) Ames	46	14	30.4
<i>Luerella</i> Braas	1	0	0.0
<i>Madisonia</i> Luer	9	2	22.2
<i>Masdevallia</i> Ruiz & Pav.	651	171	26.3
<i>Myoxanthus</i> Poepp. & Endl.	52	19	36.5
<i>Octomeria</i> R.Br.	164	22	13.4
<i>Ophidion</i> Luer	15	12	73.3
<i>Opilionanthe</i> Karremans & Bogarín	2	0	0.0
<i>Pabstiella</i> Brieger & Senghas	140	4	2.9
<i>Pendusalpinx</i> Karremans & Mel.Fernández	7	3	42.9
<i>Phloeophila</i> Hoehne & Schltr.	4	0	0.0
<i>Platystele</i> Schltr.	120	51	42.5
<i>Pleurothallis</i> R.Br.	527	248	47.0
<i>Pleurothallopsis</i> Porto & Brade	20	12	60.0
<i>Porroglossum</i> Schltr.	51	13	25.5
<i>Pseudolepanthes</i> (Luer) Archila	11	10	90.9
<i>Pupulinia</i> Karremans & Bogarín	1	0	0.0
<i>Restrepia</i> Kunth	58	31	53.4
<i>Restrepiella</i> Garay & Dunst.	4	1	25.0
<i>Scaphosepalum</i> Pfitzer	52	17	32.7
<i>Specklinia</i> Lindl.	108	29	26.9
<i>Stelis</i> Sw.	1285	521	40.5
<i>Stellamaris</i> Mel.Fernández & Bogarín	1	1	100.0
<i>Teagueia</i> (Luer) Luer	18	3	16.7
<i>Trichosalpinx</i> Luer	28	7	25.0
<i>Trisetella</i> Luer	27	7	25.9
<i>Zootrophion</i> Luer	29	15	51.7
TOTAL	5643	1862	32.9

TABLE 2. Number of Pleurothallidinae species registered for Colombia and shared presence with neighboring countries. COL (endemic to Colombia), ECU (Ecuador), VEN (Venezuela), PER (Peru), BOL (Bolivia), COS (Costa Rica), PAN (Panama).

	Number of species	Absolute %	Percentage in relation to non-endemics
Total species	1862	-	-
Endemic to COL	1103	59.2%	-
Shared with ECU	581	31.2%	76.5%
Shared with VEN	239	12.9%	31.7%
Shared with PER	204	11.0%	26.9%
Shared with BOL	142	7.7%	18.8%
Shared with COS	136	7.3%	18.0%
Shared with PAN	120	6.5%	15.9%

find across the subtribe, with *Stelis*, *Lepanthes*, *Pleurothallis* and *Masdevallia* respectively being the four most species-rich genera in the pleurothallids (Karremans & Vieira-Urbe 2020). Colombia is an extremely important center of radiation for species in these genera and Pleurothallidinae in general.

Just about 40% of pleurothallids occurring in Colombia are found elsewhere in the Neotropics. The greatest floristic affinity is found with Ecuador, with which Colombia shares 31.2% of its Pleurothallidinae. Strikingly, Ecuador hosts over 76% of the pleurothallid species found in Colombia which are not endemic to the country (Table 2). It is followed at a distance by other Andean countries, especially Venezuela (12.9% overall shared, 31.7% of non-endemics shared) and Peru (11.0% overall shared, 26.9% of non-endemics shared). Between 6.5–7.7% of the Pleurothallidinae occurring in Colombia are also found in either Bolivia, Costa Rica or Panama, while less than 5% affinity is found with species-rich but geographically distant, countries such as Brazil, Guatemala and Mexico.

Endemism rates and affinity patterns differ among pleurothallid genera. Some genera, including *Dresslerella* Luer, *Echinosepala* Pridgeon & M.W.Chase, and *Pendusalpinx* Karremans & Mel.Fernández, seem to have no Colombian endemics, while endemism is very high in others such as *Andinia*, *Dracula* Luer, *Lepanthes*, *Masdevallia*, and *Stelis*. It is striking that of the whopping 377 species of *Lepanthes* known to occur in Colombia only 5 species (1.3%) are shared with Costa

Rica and Panama (Bogarín *et al.* 2014, Pupulin 2002), two highly biodiverse countries that are the closest to Colombia in Central America. A similar situation occurs with *Masdevallia*, where only 6 species (3.5%) are shared with those two countries. Both well below the average number of shared taxa for the whole subtribe.

Overall, about a third of all currently known pleurothallids occur in Colombia, with marked differences among the genera (Table 1). Only 2.9–7.3% of the species of Brazilian-centered genera such as *Anathallis* and *Pabstiella* Brieger & Senghas are found to occur in the Colombia. Also, poorly represented are the northern genus *Echinosepala*, and the southern genus *Octomeria* R.Br., as well as *Acianthera*, *Dresslerella* Luer and *Teagueia* (Luer) Luer. Contrarily, a significant number of species belonging to the specious genera *Andinia*, *Dracula*, *Ophidion*, *Pleurothallis*, *Pleurothallopsis* Porto & Brade, *Restrepia* Kunth and *Zootrophion* Luer, are found to occur in Colombia, as well as all the species of the smaller genera *Diodonopsis* Pridgeon & M.W.Chase, *Gravendeelia*, *Pseudolepanthes* (Luer) Archila and *Stellamaris*. Only six pleurothallid genera are not currently represented in the Colombian flora: *Atopoglossum* Luer, *Chameloiphyton* Garay, *Luerella* Braas, *Opilionanthe* Karremans & Bogarín, *Phloeophila* Hoehne & Schltr., and *Pupulinia* Karremans & Bogarín. All but *Atopoglossum* occur in countries sharing a border with Colombia and could be eventually recorded in the country.

A significant portion of the Pleurothallidinae of Colombia have been described in modern times. Hundreds of taxa were proposed in the last few decades by Carl Luer, leading pleurothallid authority. Colombian nationals including Rodrigo Escobar, father Pedro Ortiz Valdivieso, Oscar Duque, and Guillermo Misas Urreta, among others, have also made significant impact. However, several historically important botanical expeditions, early collectors, and botanists, have greatly influenced the research on the Orchidaceae of Colombia. The country's rich orchid history includes many celebrated names such as Bonpland, Funck, Goudot, Hartweg, von Humboldt, von Jacquin, Karsten, Lehmann, Linden, Mutis, Purdie, Roezl, Schlim, Triana, Wagoner, Wallis, von Warszewicz, and countless others. A thorough historical account is given by Ossenbach & Jenny (2021), our main focus here is on the typification of the materials collected. The interpretation in modern times of orig-

inal materials of certain early taxa can represent a true challenge. Many classical botanists provided little information in the original descriptions and they often lacked a very precise accompanying illustration. In such cases the study of the original materials becomes essential in understanding a taxon. However, holotypes may not always be available, especially those by authors such as Friedrich Kraenzlin and Rudolf Schlechter whose main collections were destroyed in Berlin. We provide lectotypifications for several dozen taxa for which the holotype has been lost or it was not clearly selected. We follow Pupulin *et al.* (2022) in recognizing Schlechter's floral analyses reproduced by Mansfeld as original material and designate them as lectotypes when no other original material is available. Even though rudimentary, those illustrations are important guides to determining the identities of those taxa. Unfortunately, we were unable to locate original materials, including illustrations, for some species. Little-known botanical figures such as Hermann Hopf and Werner Hopp, sent their personal collections directly to Rudolf Schlechter (Ossenbach & Jenny 2021), and it is likely that all their materials were lost in Berlin (Ossenbach pers. comm.). Those taxa, even though often accepted, are likely to remain cryptic.

One would expect such issues not to occur in modern times, but unfortunately this is not always the case when it comes to the description of orchids. Certain authors continue to propose new species in complex groups, such as the Pleurothallidinae, based only on a single (sometimes aberrant) specimen, often without proper descriptions, and detailed accompanying drawings or photographs. Many of these become modern cryptic taxa that cannot be adequately placed among their closest relatives, and become accepted just because they are poorly documented and understood. Often, the proposing authors themselves have no firsthand knowledge of the species in nature and/or have not physically inspected the type specimen themselves, and therefore lack sufficient information to properly place their alleged novel taxon. In the more extreme cases this unfamiliarity leads to severe misdiagnoses. Examples of the latter are *Acianthera ortizii* Uribe Vélez, Saulea & Szlach. and *Crocodeilanthe asymmetrica* Kolan. & Szlach. Both of which, despite possible differences in the interpretation of generic circumscriptions, have prior names in genus *Pleurothallis* where they ought to have been placed. Another

rather curious example is the description of *Crocodeilanthe velaticauloides* Kolan. & Szlach., the holotype of which is an isotype of a prior taxon: *Stelis pennelliana* (Luer) Pridgeon & M.W.Chase. The latter, which is clearly a synonym, is not even mentioned in the diagnosis (Kolanowska & Szlachetko 2020b) despite being conspecific and indistinguishable. This raises suspicion as to how faithful and reliable such descriptions really are, especially given that *S. pennelliana* is used in that very same publication as a basis of comparison in the diagnosis of a few other newly proposed taxa. In addition, it is worrying that the type specimens of some of these modern taxa (see notes below) could not be retrieved in the Colombian herbaria where they were allegedly deposited.

Discovering and describing new taxa has become much more accessible with the advent of universal online access through the internet to databases, literature, and social media. Online publication, which was introduced as a means to increase the access and speed of formally describing taxa, has unfortunately promoted informality and illegality in the process. Some resources offer overnight publication, without the hassle of having an editorial board or a peer review process. This may appear convenient, but in practice it mostly stimulates poorly executed research, and the publication of taxa that often lack locality information (sometimes to avoid legal prosecution), proper illustrations, and standardized data analyses. But poor-quality taxonomic research is also published in more formal journals, and can only be discouraged by more strict requirements by the code of botanical nomenclature, proper journal review and stern governmental policies. Good quality drawings and photographs are not required for the formal description of new species but should be considered a bare minimum for any serious taxonomic proposal at this day and age. The description of a taxon that none of the authors has physically inspected should not be permitted either, nor should describing a new taxon formally using only a schematic illustration of floral segments. Such descriptions only inflate publication numbers and lists of species names, but serve very little in the understanding of biodiversity. Similarly, detrimental is the use of drawings or photographs based on specimens from other countries to illustrate the flora of Colombia, such as has been done with pleurothallids, and other orchids, in the

Orchids of the Darien Gap (Kolanowska 2014). This practice was commonplace in the past when species were believed to be highly variable and widespread, but today, given the levels of local endemism and strict biogeographical patterns, it is simply bad science.

It is high time that institutions in and researchers from Latin American countries assume a leading role in the study of their own flora, taking a front seat in floristic and systematic projects. This can only be done by combining stern governmental policies towards scientific research and a strong group of local researchers and institutions that collaborate in generating, curating and publishing high quality research. Much work is still needed to fully grasp the diversity of pleurothallids, and orchids in general, in Colombia. We would like encourage researchers working on these, and other plants, to do so, adhering to critical ethical and scientific standards, so that the information produced can be useful to understanding and conserving biodiversity. There are enough novelties in Pleurothallidinae to keep several generations of students busy.

ACKNOWLEDGEMENTS. We are very thankful to the numerous people and institutions that aided each one of the authors in the process of revising materials for this catalogue. We would like to specifically thank Julio Bétantur (Herbario Nacional Colombiano), Néstor García and Jorge Jácome Reyes (Pontificia Universidad Javeriana), Bernardo Ramírez (Universidad del Cauca), Alejandro Zuluaga (Universidad del Valle), Robinson Galindo-Tarazona (Parques Nacionales Naturales), Tatiana Arias (Selby Botanical Garden), André Schuiteman (Royal Botanic Gardens Kew), Norbert Holstein (British Museum), Heimo Reiner and Andreas Berger (Naturhistorisches Museum Wien), and the staff at CAUP, COL, CUVC, HPUJ, HUA, JAUM, JBB, MEDDEL, for their kind assistance during this study. We are very grateful to three anonymous reviewers who carefully revised the manuscript and kindly provided comments and suggestions that improved the first version substantially. We are also thankful to the editorial staff of Lankesteriana for the effort that went into processing this large manuscript.

CATALOGUE OF THE PLEUROTHALLIDINAE OF COLOMBIA

Index to Generic Names (with species counts)

- | | |
|--|---|
| <i>ACIANTHERA</i> Scheidw. (53) | <i>MYOXANTHUS</i> Poepp. & Endl. (19) |
| <i>ANATHALLIS</i> Barb.Rodr. (9) | <i>OCTOMERIA</i> R.Br. (22) |
| <i>ANDINIA</i> (Luer) Luer (37) | <i>OPHIDION</i> Luer (12) |
| <i>ANDRETTAEA</i> Luer (22) | <i>PABSTIELLA</i> Brieger & Senghas (4) |
| <i>BARBOSELLA</i> Schltr. (5) | <i>PENDUSALPINX</i> Karremans & Mel.Fernández (3) |
| <i>BRACHIONIDIUM</i> Lindl. (17) | <i>PLATYSTELE</i> Schltr. (51) |
| <i>DIODONOPSIS</i> Pridgeon & M.W.Chase (4) | <i>PLEUROTHALLIS</i> R.Br. (248) |
| <i>DRACONANTHES</i> (Luer) Luer (1) | <i>PLEUROTHALLOPSIS</i> Porto & Brade (12) |
| <i>DRACULA</i> Luer (80) | <i>PORROGLOSSUM</i> Schltr. (13) |
| <i>DRESSLERELLA</i> Luer (2) | <i>PSEUDOLEPANTHES</i> (Luer) Archila (10) |
| <i>DRYADELLA</i> Luer (15) | <i>RESTREPIA</i> Kunth (31) |
| <i>ECHINOSEPALA</i> Pridgeon & M.W.Chase (3) | <i>RESTREPIELLA</i> Garay & Dunst. (1) |
| <i>FRONDARIA</i> Luer (1) | <i>SCAPHOSEPALUM</i> Pfitzer (17) |
| <i>GRAVENDELLA</i> Bogarín & Karremans (1) | <i>SPECKLINIA</i> Lindl. (29) |
| <i>KARMA</i> Karremans (16) | <i>STELIS</i> Sw. (521) |
| <i>LANKESTERIANA</i> Karremans (6) | <i>STELLAMARIS</i> Mel.Fernández & Bogarín (1) |
| <i>LEPANTHES</i> Sw. (377) | <i>TEAGUELA</i> (Luer) Luer (3) |
| <i>LEPANTHOPSIS</i> (Cogn.) Ames (14) | <i>TRICHOSALPINX</i> Luer (7) |
| <i>MADISONIA</i> Luer (2) | <i>TRISETELLA</i> Luer (7) |
| <i>MASDEVALLIA</i> Ruiz & Pav. (171) | <i>ZOOTROPHION</i> Luer (15) |

Index to other generic names

- Aberrantia* Luer = see *Acianthera*
Acinopetala Luer = see *Masdevallia*
Acostaea Schltr. = see *Specklinia*
Acronia C.Presl = see *Pleurothallis*
Alaticaulia Luer = see *Masdevallia*
Ancipitia (Luer) Luer = see *Pleurothallis*
Anthereon Pridgeon & M.W.Chase = see *Pabstiella*
Apatostelis Garay = see *Stelis*
Apoda-prorepentia (Luer) Luer = see *Acianthera*
Arthrosia (Luer) Luer = see *Acianthera*
Aspegrenia Poepp. & Endl. = see *Octomeria*
Brachycladium (Luer) Luer = see *Andinia*
Brenesia Schltr. = see *Echinosepala*
Buccella Luer = see *Masdevallia*
Byrsella Luer = see *Masdevallia*
Colombiana Ospina = see *Pleurothallis*
Condylago Luer = see *Stelis*
Crocodelianthe Rchb.f. & Warsz. = see *Pleurothallis*, *Stelis*
Cryptophoranthus Barb.Rodr. = see *Ophidion*, *Zootrophion*
Dialissa Lindl. = see *Stelis*
Didactylus Luer = see *Acianthera*
Dubois-reymondia H.Karst. = see *Myoxanthus*
Duboisia R.Br. = see *Myoxanthus*
Echinella Pridgeon & M.W.Chase = see *Echinosepala*
Effusiella Luer = see *Stelis*
Elongatia (Luer) Luer = see *Pleurothallis*
Expedicula Luer = see *Lepanthopsis*
Fissia (Luer) Luer = see *Masdevallia*
Gyalanthos Szlach. & Marg. = see *Pabstiella*
Kraenzlinella Kuntze = see *Acianthera*, *Anathallis*
Lindleyalis Luer = see *Pleurothallis*
Lothiana Kraenzl. = see *Porroglossum*
Lueranthos Szlach. & Marg. = see *Andinia*
Luzama Luer = see *Masdevallia*
Megema Luer = see *Masdevallia*
Mixis Luer = see *Pleurothallis*
Muscarella Luer = see *Andreettaea*
Neoreophilus Archila = see *Andinia*
Niphantha Luer = see *Stelis*
Oreophilus W.E.Higgins & Archila = see *Andinia*
Panmorphia Luer = see *Anathallis*, *Lankesteriana*
Penducella Luer & Thoele = see *Andinia*
Petalodon Luer = see *Masdevallia*
Physosiphon Lindl. = see *Lepanthopsis*, *Stelis*
Physothallis Garay = see *Acianthera*
Pteroon Luer = see *Masdevallia*
Reichantha Luer = see *Masdevallia*
Restrepiopsis Luer = see *Pleurothallopsis*
Rhynchopera Link, Klotzsch & Otto = see *Pleurothallis*
Rodrigoa Braas = see *Masdevallia*
Ronaldella Luer = see *Pabstiella*
Sarcinula Luer = see *Specklinia*
Spectaculum Luer = see *Masdevallia*
Spilotantha Luer = see *Masdevallia*
Streptoura Luer = see *Masdevallia*
Sylphia Luer = see *Andreettaea*, *Specklinia*
Talpinaria H.Karst. = see *Pleurothallis*
Tigivesta Luer = see *Pleurothallis*
Triaristella (Rchb.f.) Brieger ex Luer = see *Trisetella*
Triaristellina Rauschert = see *Trisetella*
Tubella (Luer) Archila = see *Karma*
Unciferia Luer = see *Stelis*
Verapazia Archila = see *Andreettaea*
Vestigium Luer = see *Pleurothallis*
Xenosia Luer = see *Andinia*
Zahleria Luer = see *Masdevallia*
Zosterophyllanthos Szlach. & Marg. = see *Pleurothallis*

Country abbreviations (listed alphabetically)

ARG - Argentina	ELS - El Salvador	NIC - Nicaragua
BEL - Belize	FRE - French Guiana	PAN - Panama
BOL - Bolivia	GUA - Guatemala	PER - Peru
BRA - Brazil	GUY - Guyana	PUE - Puerto Rico
COL - Colombia	HAI - Haiti	SUR - Suriname
COS - Costa Rica	HON - Honduras	URU - Uruguay
CUB - Cuba	JAM - Jamaica	USA - United States of America
DOM - Dominican Republic	L.A. - Lesser Antilles	VEN - Venezuela
ECU - Ecuador	MEX - Mexico	

ACIANTHERA Scheidw.

Acianthera aberrans (Luer) Pupulin & Bogarín, Lankesteriana 8(2): 53–55. 2008. *Aberrantia aberrans* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 310. 2005. *Aberrantia aberrans* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 257. 2004, *nom. inval.* *Pleurothallis aberrans* Luer, Selbyana 2(4): 382–383. 1978.

ILLUSTRATION: Luer 2004, f. 108; Bogarín *et al.* 2008, f. 1, 15A; Karremans & Vieira-Uribe 2020, p. 23, p. 24; Misas Urreta 2005, p. 509.

DISTRIBUTION: COL COS ECU PAN.

TYPE: Panama, *Luer & Dressler 1628* (holotype, SEL).

VOUCHER: Colombia, *Misas Urreta 255* (HPUJ).

Acianthera agathophylla (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16(4): 241. 2001. *Humboldtia agathophylla* (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis agathophylla* Rchb.f., Xenia Orchid. 3: 25. 1881.

ILLUSTRATION: Luer 2004, f. 3; Misas Urreta 2005, p. 515; Karremans & Vieira-Uribe 2020, p. 49.

DISTRIBUTION: BOL BRA COL PER.

TYPE: Bolivia, *Mandon 1132* (holotype, W-R-45939; isotypes, AMES-00074025, BR-0000006586072, BM-000082439, G-00168967, K-000584177, MPU-018064, NY-000092220, P-00489101, P-00489102, P-00489103, P-00489104, S05-6340, W-R-0075167; tracing, W-2017-02129).

VOUCHER: Colombia, *Misas Urreta 106* (HPUJ).

Acianthera angustifolia (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 112: 118. 2007. *Acianthera angustifolia* (Lindl.) Carnevali & G.A.Romero, Nuevo Cat. Fl. Vasc. Venezuela 753. 2008, *nom. superfl.* *Pleurothallis angustifolia* Lindl., Edwards's Bot. Reg. 21: sub t. 1797. 1835. *Humboldtia angustifolia* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891.

ILLUSTRATION: Luer 2004, f. 4; Stenzel 2004, f. 41; Stenzel 2007, f. 29; Karremans & Vieira-Uribe 2020, p. 40.

DISTRIBUTION: BEL COL CUB DOM GUA HAI HON JAM PUE L.A. MEX VEN.

TYPE: Mexico, *Deppe s.n.* (holotype, K-L-000079872; isotypes, BM-000082661).

VOUCHER: Colombia, *Silverstone-Sopkin 6292* (MO; Luer ill. 16340)

Acianthera apthosa (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16(4): 242. 2001. *Pleurothallis apthosa* Lindl., Edwards's Bot. Reg. 24(Misc.): 42–43. 1838. *Specklinia apthosa* (Lindl.) F.Barros, Hoehnea 10: 109. 1983 [1984].

ILLUSTRATION: Cogniaux 1896, t. 107 (III), t. 108 (II); Luer 2004, f. 6; Karremans & Vieira-Uribe 2020, p. 18.

DISTRIBUTION: BOL BRA COL ECU GUA MEX PER.

TYPE: Unknown country, *Bateman s.n.* (holotype, K-L-000674223).

VOUCHER: Colombia, *McCullough 1862* (SEL; Luer ill. 228-S).

Acianthera beyrodtiana (Kraenzl.) Karremans, Harvard Pap. Bot. 21(2): 185. 2016.

Pleurothallis beyrodtiana Kraenzl., Repert. Spec. Nov. Regni Veg. 6: 65. 1908. *Pleurothallis cogniauxiana* Kraenzl., Orchis 2: 28. 1907, *nom. illeg.* Non *Pleurothallis cogniauxiana* Schltr. [1907].

ILLUSTRATION: Luer 2004, f. 21, f. 22.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Beyrodt s.n.* (holotype, HBG-501882).

Acianthera carcinopsis Luer & Sijm, Harvard Pap. Bot. 17(2): 334. 2012.

ILLUSTRATION: Luer & Thoele 2012b, f. 3; Karremans & Vieira-Uribe 2020, p. 26.

DISTRIBUTION: *COL.

TYPE: Colombia, *Sijm 20110830* (holotype, MO).

Acianthera chamelopoda (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 253. 2004. *Pleurothallis chamelopoda* Luer, Orquideología 20(2): 201–203. 1996.

ILLUSTRATION: Luer 1996f, 202; Luer 2004, f. 16.

DISTRIBUTION: *COL.

TYPE: Colombia, *Lehmann 346* (holotype, K-L-000079872; isotype, W).

Acianthera chionopa (Luer) Pridgeon & M.W.Chase, Lindleyana 16(4): 242. 2001. *Pleurothallis chionopa* Luer, Phytologia 46(6): 361. 1980.

ILLUSTRATION: Luer 2004, f. 17; Karremans & Vieira-Uribe 2020, p. 60.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer et al. 4494* (holotype, SEL).

VOUCHER: Colombia, *Killip & Smith 16751* (AMES, NY, US).

- Acianthera ciliata* (Knowles & Westc.) F.Barros & L.R.S. Guim., Neodiversity 5: 28. 2010. *Humboldtia ciliata* (Knowles & Westc.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis ciliata* Knowles & Westc., Fl. Cab. 1: 39–40, t. 19. 1837. ILLUSTRATION: Luer 2004, f. 56, f. 57; Karremans & Vieira-Uribe 2020, p. 35. DISTRIBUTION: BEL BOL BRA COL COS ECU GUY L.A. PER SUR VEN. TYPE: Guyana, *Henchman ex Wilmore s.n* [holotype, not preserved; lectotype (Christenson 1996), Flor. Cab. 1: 39, t. 19]. VOUCHER: Colombia, *Lehmann 312* (K, L).
- Acianthera cremasta* (Luer & J. Portilla) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 253. 2004. *Pleurothallis cremasta* Luer & J. Portilla, Selbyana 22(2): 119–121. 2001. ILLUSTRATION: Luer 2004, f. 28; Karremans & Vieira-Uribe 2020, p. 72. DISTRIBUTION: COL ECU. TYPE: Ecuador, *Hirtz 7132* (holotype, MO). VOUCHER: A photographic voucher of a Colombian specimen reproduced in Karremans & Vieira-Uribe 2020, p. 72.
- Acianthera decipiens* (Ames & C.Schweinf.) Pridgeon & M.W.Chase, Lindleyana 16(4): 243. 2001. *Pleurothallis decipiens* Ames & C.Schweinf., Sched. Orch. 8: 26–27. 1925. ILLUSTRATION: Luer 2004, f. 29; Karremans & Vieira-Uribe 2020, p. 38. DISTRIBUTION: COL COS ECU PAN VEN. TYPE: Costa Rica, *Valerio 68* (holotype, US; isotypes AMES). VOUCHER: Colombia, *Cuatrecasas 18770* (AMES).
- Acianthera decurrens* (Poepp. & Endl.) Pridgeon & M.W.Chase, Lindleyana 16(4): 243. 2001. *Humboldtia decurrens* (Poepp. & Endl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis decurrens* Poepp. & Endl., Nov. Gen. Sp. Pl. 1: 48, pl. 83. 1836. ILLUSTRATION: Luer 2004, f. 30; Damián *et al.* 2018, f. 1D; Karremans & Vieira-Uribe 2020, p. 36. DISTRIBUTION: BOL COL ECU PER. TYPE: Peru, *Poepping 1604* [t.83] [lectotype, W-R-0047866 (Karremans *et al.* 2023); isolectotype, W-R-0047867]. VOUCHER: Colombia, *Betancur et al. 7018* (COL, MO).
- Acianthera discophylla* (Luer & Carnevali) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 253. 2004. *Pleurothallis discophylla* Luer & Carnevali, Novon 3(2): 158. 1993. ILLUSTRATION: Luer 2004, f. 31, f. 32, f. 33; Damián *et al.* 2018, f. 1E; Karremans & Vieira-Uribe 2020, p. 40. DISTRIBUTION: BOL BRA COL ECU PER VEN. TYPE: Ecuador, *Hirtz & Ortega 13927* (holotype, MO). VOUCHER: Colombia, *Barona 15* (COAH).
- Acianthera dubbeldamii* Luer & Sijm, Harvard Pap. Bot. 17(2): 336. 2012. ILLUSTRATION: Luer & Thoele 2012b, f. 4; Karremans & Vieira-Uribe 2020, p. 35. DISTRIBUTION: *COL. TYPE: Colombia, *Sijm 20110829* (holotype, MO).
- Acianthera erinacea* (Rchb.f.) A.Doucette, Phytotaxa 275(3): 271. 2016. *Humboldtia erinacea* (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Kraenzlinella erinacea* (Rchb.f.) Solano, Icon. Orchid. (Mexico) 5–6: xi. 2002 [2003]. *Kraenzlinella erinacea* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 258. 2004, *nom. superfl.* *Pleurothallis erinacea* Rchb.f., Bonplandia (Hannover) 3: 72. 1855. ILLUSTRATION: Luer 1994, pl. 3 (p. 97); Karremans & Vieira-Uribe 2020, p. 57. DISTRIBUTION: BEL BOL COL COS ECU GUA HON MEX NIC PAN PER SUR VEN. TYPE: Colombia, *Wagener s.n.* (holotype, W-R-53828; isotype, K-L).
- Acianthera floribunda* (Lindl.) F.Barros, Bradea 8: 294. 2002. *Arthrosia floribunda* (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 248. 2006. *Pleurothallis floribunda* (Lindl.) Lindl., Edwards's Bot. Reg. Misc. 73. 1842. *Specklinia floribunda* Lindl., Gen. Sp. Orchid. Pl. 9. 1830. ILLUSTRATION: Damián *et al.* 2018, f. 1H. DISTRIBUTION: BRA, COL, ECU, L.A., PER. TYPE: Martinique, *Sieber 206* (holotype, K-L; isotypes, M, P, MO). VOUCHER: Colombia, *Viveros 135* (HUQ).
- Acianthera fockei* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16(4): 243. 2001. *Humboldtia fockei* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis fockei* Lindl., Fol. Orchid. ~Pleurothallis~

23. 1859. *Pleurothallis tricarinata* H.Focke, Bot. Zeitung (Berlin) 11: 339. 1853, *nom. illeg.* Non *Pleurothallis tricarinata* Poepp. & Endl. [1836].
ILLUSTRATION: Luer 2004, f. 42, f. 98; Karremans & Vieira-Uribe 2020, p. 59.
DISTRIBUTION: COL FRE GUY SUR VEN.
TYPE: Suriname, *Wullschlaegel 1591* (holotype, GOET-013949; type illustr., K-L, W-R-0008958; tracing, W-R-0011538).
VOUCHER: Colombia, *Clavijo-Romero 813* (COL).
- Acianthera geminicaulina*** (Ames) Pridgeon & M.W.Chase, Lindleyana 16(4): 243. 2001. *Pleurothallis geminicaulina* Ames, Sched. Orch. 6: 59–60. 1923.
ILLUSTRATION: Luer 1975a, f. 8 (p. 73); Luer 2004, f. 45; Karremans & Vieira-Uribe 2020, p. 15, p. 34; Pérez-Escobar *et al.* 2022, f. 4a–d; Misas Urreta 2005, p. 539.
DISTRIBUTION: COL COS ECU PER.
TYPE: Costa Rica, *Lankester 454* (holotype, AMES).
VOUCHER: Colombia, *Espina 2752* (CHOCO, MO).
- Acianthera gracilis*** (Barb.Rodr.) F.Barros & L.R.S. Guim., Neodiversity 5(1): 28. 2010. *Arthrosia gracilis* (Barb.Rodr.) Campacci, Bol. CAOB 69–70: 26. 2008. *Pleurothallis gracilis* Barb.Rodr., Gen. Sp. Orchid. 1: 6. 1877.
DISTRIBUTION: BRA COL.
TYPE: Brazil, *Barbosa Rodrigues s.n.* [holotype, lost; lectotype, tab. 175, fig. B, in Iconogr. Orchid. Bresil, vol. 3, at the Library of Rio de Janeiro Botanical Garden; reproduced in color in Sprunger *et al.* (1996, vol. 1: 223) (Barros & Guimarães 2010)].
VOUCHER: Colombia, *Ospina 117* (JAUM).
- Acianthera hagsateri*** O.Pérez, L.Oses & Bogarín, Lankesteriana 22(1): 18. 2022.
ILLUSTRATION: Pérez-Escobar *et al.* 2022, f. 1, f. 2, f. 4e.
DISTRIBUTION: *COL.
TYPE: Colombia, *Pérez & Parra 1488* (holotype, CUVU).
- Acianthera harpophylla*** (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 253. 2004.
Humboldtia harpophylla (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis harpophylla* Rchb.f., Bonplandia (Hannover) 3: 72. 1855.
ILLUSTRATION: Luer 2004, f. 47.
DISTRIBUTION: *COL.
TYPE: Colombia, *Wagener s.n.* [L549] (holotype, W-R-0021870; isotype; K-L).
- Acianthera henrici*** (Schltr.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 253. 2004. *Pleurothallis henrici* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 8: 58. 1921.
ILLUSTRATION: Luer 2004, f. 49; Zambrano & Solano 2021, f. 4b.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Eggers 15628* [holotype, B, destroyed; lectotype, K-000584158 (Luer 2004)].
VOUCHER: Colombia, *Haught 4823* (COL).
- Acianthera hirtipes*** (Schltr.) Rojas-Alv. & Karremans, Phytotaxa 507: 252. 2021. *Myoxanthus hirtipes* (Schltr.) Luer, Selbyana 7(1): 43. 1982. *Pleurothallis hirtipes* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 104. 1920.
ILLUSTRATION: Mansfeld 1929, t. 39 (No. 136).
DISTRIBUTION: *COL.
TYPE: Colombia, *Madero s.n.* (holotype, B, destroyed). Colombia, *Madero s.n.* [neotype, illustration in Mansfeld 1929, t. 39, No. 136 (Rojas-Alvarado *et al.* 2021)].
- Acianthera hirtzii*** (Luer) Karremans & Rincón-González, Phytotaxa 238(2): 178. 2015. *Apo-da-prorepentia hirtzii* Luer, Harvard Pap. Bot. 18(2): 174. 2013.
ILLUSTRATION: Luer & Thoele 2013, f. 4; Karremans & Vieira-Uribe 2020, p. 30.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Hirtz 10239* (holotype, MO).
VOUCHER: A photographic voucher of a Colombian specimen reproduced in Karremans & Vieira-Uribe 2020, p. 30.
- Acianthera hygrophila*** (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16(4): 244. 2001. *Arthrosia hygrophila* (Barb.Rodr.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 249. 2006. *Pleurothallis hygrophila* Barb.Rodr., Gen. Sp. Orchid. 1: 7. 1877. *Specklinia hygrophila* (Barb.Rodr.) F.Barros, Hoehnea 10: 110. 1984. *Specklinia hygrophila* (Barb.Rodr.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 261. 2004, *nom. superfl.* *Stelis hygrophila* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16(4): 263. 2001.
ILLUSTRATION: Rossado *et al.* 2014, f. 1; Karremans

& Vieira-Urbe 2020, p. 31.

DISTRIBUTION: ARG BRA COL URU.

TYPE: Brazil, *Barbosa Rodrigues s.n.* [holotype, lost; lectotype (selected here), tab. 140, fig. B, in *Iconogr. Orchid. Bresil*, vol. 3, at the Library of Rio de Janeiro Botanical Garden; reproduced in color in Sprunger *et al.* (1996, vol. 1: 198)]. Brazil. Rio de Janeiro: Serra dos Órgãos, *de Moura 14* [neotype, RB (Gonçalves & Waechter 2004), here rejected and selected as epitype; photo, RB-0542551].

VOUCHER: Colombia, *Wasum 12647* (MO).

Note: A neotype for this taxon was selected by Gonçalves & Waechter (2004) arguing that the extant type illustration reproduced in Sprunger *et al.* (1996) is insufficient to precisely apply the name. Nevertheless, this is still the only extant material among original materials and it does provide significant information regarding the floral features. The neotype is therefore here rejected and selected as epitype, which serves the purpose of an interpretative type.

Acianthera kateora (Garay) Karremans & Rincón-González, *Phytotaxa* 238(2): 178. 2015. *Apoda-prorepentia* kateora (Garay) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 255. 2004. *Physothallis kateora* Garay, *Orquideología* 9: 133. 1973. *Pleurothallis kateora* (Garay) Luer, *Phytologia* 49(3): 209. 1981.

ILLUSTRATION: Luer 2007, f. 5; Karremans & Vieira-Urbe 2020, p. 29.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 1078* (holotype, AMES).

Acianthera lojiae (Schltr.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 254. 2004. *Pleurothallis lojiae* Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 8: 60–61. 1921.

ILLUSTRATION: Luer 2004, f. 59, f. 60, f. 61; Karremans & Vieira-Urbe 2020, p. 37.

DISTRIBUTION: BOL COL ECU PER.

TYPE: Ecuador, *Lehmann 8202* [holotype, B, destroyed; lectotype (selected here), K-000584144].

VOUCHER: Colombia, *Luer et al. 11365* (MO).

Acianthera madisonii (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 244. 2001. *Pleurothallis madisonii* Luer, *Selbyana* 5(2): 171–172. 1979.

ILLUSTRATION: Luer 2004, f. 62; Ortiz *et al.* 2010,

p. 57, 58; Karremans & Vieira-Urbe 2020, p. 36.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Madison 3922* (holotype, SEL).

VOUCHER: Colombia, *Pérez et al. 512* (holotype, VALLE).

Acianthera melanoglossa (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 254. 2004. *Pleurothallis melanoglossa* Luer & R.Escobar, *Orquideología* 20: 74. 1996.

ILLUSTRATION: Luer & Escobar 1996, p. 73; Luer 2004, f. 64.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 16795* (holotype, MO).

Acianthera miqueliana (H.Focke) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 244. 2001. *Humboldtia miqueliana* (H.Focke) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891. *Pleurothallis miqueliana* (H.Focke) Lindl., *Fol. Orchid. ~Pleurothallis~* 17, no. 93. 1859. *Specklinia miqueliana* H.Focke, *Tijdschr. Wis- Natuurk. Wetensch. Eerste Kl. Kon. Ned. Inst. Stelis miqueliana* (H.Focke) Lindl., *Fol. Orchid. ~Pleurothallis~* 17. 1859.

ILLUSTRATION: Cogniaux 1896, f. 2 (p. 116); Luer 2004, f. 67; Damián *et al.* 2018, f. 2A.

DISTRIBUTION: BRA COL ECU FRE GUY PER SUR VEN.

TYPE: Suriname, *Focke s.n.* (holotype, W; isotype, BR).

VOUCHER: Colombia, *Betancur 13433* (COAH).

Acianthera moronae (Luer & Hirtz) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 254. 2004.

Pleurothallis moronae Luer & Hirtz, *Lindleyana* 11(3): 171–172. 1996.

ILLUSTRATION: Luer 2004, f. 69; Luer 1996c, f. 39; Karremans & Vieira-Urbe 2020, p. 37; Rincón-González *et al.* 2020a, f. 1.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer et al. 13998* (holotype, MO).

VOUCHER: Colombia, *Rincón et al. 1297* (TOLISpirit).

Acianthera nellyae (P.Ortiz) Karremans, *Harvard Pap. Bot.* 21(2): 185. 2016. *Pleurothallis nellyae* P.Ortiz, *Orquideología* 20: 325–326. 1997.

ILLUSTRATION: Ortiz 1997, p. 317 (center left), p. 322 (below right).

DISTRIBUTION: *COL.

TYPE: Colombia, *Ortiz 1081* (holotype, HPUJ).

- Acianthera omissa* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 245. 2001. *Pleurothallis omissa* Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 76: 175, f. 30a. 1999.
ILLUSTRATION: Luer 1999a, f. 30a; Luer 2004, f. 73; Karremans & Vieira-Uribe 2020, p. 59.
DISTRIBUTION: COL ECU VEN.
TYPE: Venezuela, *Dunsterville 794* (holotype, MO).
VOUCHER: Colombia, *Pipoly 12937* (COL).
- Acianthera oscitans* (Ames) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 245. 2001. *Didactylus oscitans* (Ames) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 310. 2005. *Didactylus oscitans* (Ames) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 257. 2004, *nom. inval.* *Pleurothallis oscitans* Ames, Bot. Mus. Leafl. 2(2): 25–27. 1934.
ILLUSTRATION: Luer 2004, f. 110; Karremans & Vieira-Uribe 2020, p. 55, p. 56.
DISTRIBUTION: COL COS ECU HON PAN.
TYPE: Honduras, *Edwards 515* (holotype, AMES).
VOUCHER: A photographic voucher of a Colombian specimen reproduced in Karremans & Vieira-Uribe 2020, p. 55.
- Acianthera pantasmi* (Rchb.f.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 245. 2001. *Humboldtia pantasmi* (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Pleurothallis pantasmi* Rchb.f., *Bonplandia* (Hannover) 3: 224. 1855.
ILLUSTRATION: Luer 2004, f. 74; Luer 1975e, f. 91; Karremans & Vieira-Uribe 2020, p. 22.
DISTRIBUTION: COL COS ECU HON NIC.
TYPE: Nicaragua, *Oersted s.n.* [L553] (holotype, W-R-0020817! isotypes, K-L-00079865).
VOUCHER: Colombia, *Ortiz-Valdivieso 914* (HPUJ).
- Acianthera pantasmoides* (C.Schweinf.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 245. 2001. *Pleurothallis pantasmoides* C.Schweinf., Bot. Mus. Leafl. 15(3): 98. 1951.
ILLUSTRATION: Luer 2004, f. 75; Luer & Thoele 2012b, f. 2; Damián *et al.* 2018, f. 2B; Karremans & Vieira-Uribe 2020, p. 22.
DISTRIBUTION: COL ECU PER.
TYPE: Peru, *Vargas 6499* (holotype, AMES).
VOUCHER: Colombia, *Pinto-Escobar 393* (COL).
- Acianthera pazii* Luer, *Selbyana* 30(1): 2. 2009. *Pleurothallis pazii* (Luer) Pfahl, *Internet Orchid Sp. Photo Encycl. Nomencl. Notes* 2. 2013. 2013.
ILLUSTRATION: Luer 2009b, f. 2.
DISTRIBUTION: *COL.
TYPE: Colombia, *Silverstone-Sopkin & Paz 8522* (holotype, CUVG; isotype, MO).
- Acianthera phyllostachys* (Schltr.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 245. 2001. *Pleurothallis phyllostachys* Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 9: 76. 1921.
ILLUSTRATION: Cogniaux 1896, f. 2 (p. 119); Luer 2004, f. 78; Karremans & Vieira-Uribe 2020, p. 42.
DISTRIBUTION: BOL BRA COL ECU PER.
TYPE: Peru, *Weberbauer 6313* [holotype, B, destroyed; lectotype, AMES (Luer 2004)].
VOUCHER: Colombia, *Lehmann 7100* (K, W).
- Acianthera polystachya* (Ruiz & Pav.) Pupulin, *Anales Jard. Bot. Madrid* 69: 27. 2012. *Humboldtia polystachya* Ruiz & Pav., *Syst. Veg. Fl. Peruv. Chil.* 234. 1798. *Stelis polystachya* (Ruiz & Pav.) Willd., *Sp. Pl.* 4: 139. 1805.
ILLUSTRATION: Luer 1975a, f. 3 (p. 63); Luer 2004, f. 13, f. 14; Damián *et al.* 2018, f. 2C. Fig. 3A; Karremans & Vieira-Uribe 2020, p. 41, p. 78.
DISTRIBUTION: BOL COL ECU PER VEN.
TYPE: Peru, *Ruiz & Pavón s.n.* (holotype, MA).
VOUCHER: Colombia, *Luer 10279* (MO).
- Acianthera portilloi* (Luer & R.Escobar) Karremans & Rincón-González, *Phytotaxa* 238(2): 178. 2015. *Apoda-proreperntia portilloi* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 255. 2004. *Pleurothallis portilloi* Luer & R.Escobar, *Orquideología* 15(2–3): 144. 1982.
ILLUSTRATION: Luer & Escobar 1982, p. 145; Luer 2007, f. 7.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 6688* (holotype, SEL; isotype, JAUM).
- Acianthera prognatha* (Luer & R.Escobar) Pridgeon & M.W.Chase, *Lindleyana* 16: 245. 2001. *Pleurothallis prognatha* Luer & R.Escobar, *Orquideología* 16(1): 30. 1983.
ILLUSTRATION: Luer & Escobar 1983, p. 29; Luer 2004, f. 79; Karremans & Vieira-Uribe 2020, p. 21.
DISTRIBUTION: COL VEN.
TYPE: Colombia, *Luer et al. 7918* (holotype, SEL; isotypes, COL, JAUM).
- Acianthera pubescens* (Lindl.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 245–246. 2001.

- Humboldtia pubescens* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Pleurothallis pubescens* Lindl., Companion Bot. Mag. 2: 355. 1836.
ILLUSTRATION: Cogniaux 1896, f. 1, f. 2 (p. 107); Luer 2004, f. 81; Zambrano & Solano 2021, f. 4d, f. 6, f. 7, f. 8, f. 9; Karremans & Vieira-Urbe 2020, p. 53, p. 54.
DISTRIBUTION: BOL BRA COL COS ECU DOM GUA HON MEX NIC PAN PER PUE VEN.
TYPE: Mexico, *Barker s.n.* (holotype, K).
VOUCHER: Colombia, *Luer et al. 10156* (MO).
- Acianthera rodrigoii*** (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 254. 2004. *Pleurothallis rodrigoii* Luer, Revista Soc. Boliv. Bot. 4(1): 19, f. 10. 2003.
ILLUSTRATION: Luer 2003a, f. 10; Luer 2004, f. 85.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 5170* (holotype, MO).
- Acianthera scalpricaulis*** (Luer) Pridgeon & M.W.Chase, Lindleyana 16(4): 242. 2001. *Pleurothallis scalpricaulis* Luer, Selbyana 1(4): 424, f. 103. 1976.
ILLUSTRATION: Luer 2004, f. 89; Damián *et al.* 2018, f. 2F; Karremans & Vieira-Urbe 2020, p. 18.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 619* (holotype, SEL).
VOUCHER: Colombia, *Sierra-Ariza 108* (TOLI).
- Acianthera serratifolia*** Rincón-González & Karremans, Phytotaxa 238(2): 178. 2015.
ILLUSTRATION: Karremans & Rincón-González 2015, f. 2–4; Karremans & Vieira-Urbe 2020, p. 28.
DISTRIBUTION: *COL.
TYPE: Colombia, *Rincón-González 12962* (holotype, TOLI).
- Acianthera sicaria*** (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16(4): 246. 2001. *Humboldtia sicaria* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Pleurothallis sicaria* Lindl., Edwards's Bot. Reg. 27: Misc. 91. 1841.
ILLUSTRATION: Luer 1975a, f. 17 (p. 91); Luer 2004, f. 90, f. 91, f. 92; Damián *et al.* 2018, f. 2G; Karremans & Vieira-Urbe 2020, p. 19, p. 20; Misas Urreta 2005, p. 568, 569.
DISTRIBUTION: BOL COL COS ECU HON L.A. PAN PER VEN.
TYPE: Trinidad, *Lodigges s.n.* (holotype, K-L-000079864).
VOUCHER: Colombia, *Luer et al. 4569* (K, SEL).
- Acianthera testifolia*** (Sw.) Solano, Acta Bot. Mex. 97: 50. 2011. *Apoda-prorepenia testifolia* (Sw.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 255. 2004. *Cymbidium testifolium* (Sw.) Sw., Nova Acta Regiae Soc. Sci. Upsal. 6: 71. 1799. *Epidendrum testifolium* Sw., Prodr. Fl. Ind. Orient. 1: 122. 1788. *Humboldtia testifolia* (Sw.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Pleurothallis testifolia* (Sw.) Lindl., Ann. Mag. Nat. Hist., ser. 3 1(5): 328. 1858.
ILLUSTRATION: Stenzel 2004, f. 37; Luer 2007, f. 8; Stenzel 2007, f. 27; Karremans & Vieira-Urbe 2020, p. 29.
DISTRIBUTION: COL COS CUB DOM GUA HAI HON JAM L.A. MEX NIC SUR VEN.
TYPE: Jamaica, *Swartz s.n.* (holotype, S-R-1973; isotypes, BM-000082277, LD-1743206, M-0226572, SBT-11224, W-R-0016036).
VOUCHER: Colombia, *Chaparro de Barrera 496* (COL).
- Acianthera tunguraguae*** (F.Lehm. & Kraenzl.) A. Doucette, Phytotaxa 275(3): 272. 2016. *Kraenzlinella tunguraguae* (F.Lehm. & Kraenzl.) Engl. & Prantl, Nat. Pflanzenfam. Nachtr. 3: 86. 1906. *Otopetalum tunguraguae* F.Lehm. & Kraenzl., Bot. Jahrb. Syst. 26(3–4): 457. 1899.
ILLUSTRATION: Luer 1975a, f. 12 (p. 81); Luer 1994, pl. 7 (p. 105); Damián *et al.* 2018, f. 2K; Karremans & Vieira-Urbe 2020, p. 57.
DISTRIBUTION: COL ECU PER.
TYPE: Ecuador, *Lehmann 8088* (holotype, K-000584257; isotypes, K-000584258, AMES-00074566).
- Acianthera verecunda*** (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16(4): 246. 2001. *Pleurothallis verecunda* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 17: 24. 1922.
ILLUSTRATION: Luer 2004, f. 100; Karremans & Vieira-Urbe 2020, p. 37.
DISTRIBUTION: COL COS ECU PAN.
TYPE: Panama, *Powell 91* [holotype, B, destroyed; lectotype, AMES-23795 (Christenson 1991; superfl. selected by Luer 2004); isolectotypes, K, MO-955945].
VOUCHER: Colombia, *Luer 18437* (MO).
- Acianthera villahermosae*** Sierra-Ariza, Rincón-González & Karremans, Phytotaxa 474(1): 93–97. 2020.

ILLUSTRATION: Rincón-González *et al.* 2020b, f. 1–3, 4a; Karremans & Vieira-Urbe 2020, p. 29 (bottom left). Fig. 3B.

DISTRIBUTION: *COL.

TYPE: Colombia, *Ariza & Bohórquez 110* (holotype, TOLI-spirit).

Acianthera wagneriana (Klotzsch) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 247. 2001.

Pleurothallis wagneriana Klotzsch, *Allg. Gartenzeitung* 20: 274. 1852.

ILLUSTRATION: Cogniaux 1896, f. 1 (p. 105); Luer 2004, f. 103, f. 104; Karremans & Vieira-Urbe 2020, p. 21.

DISTRIBUTION: BRA COL ECU PER VEN.

TYPE: Venezuela, *Wagner 44* [lectotype (selected here), W-R-0025671; isolectotype, W-R-0017712; type illustr. W-R-0025672].

VOUCHER: Colombia, *Escobar 8345* (MO).

Acianthera wyvern (Luer & R.Escobar) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 247. 2001.

Pleurothallis wyvern Luer & R.Escobar, *Orquideología* 14(2): 184. 1981.

ILLUSTRATION: Luer & Escobar 1981a, p. 185; Luer 2004, f. 105.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Luer et al. 3726* (holotype, SEL).

Acianthera yauaperyensis (Barb.Rodr.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 247. 2001. *Pleurothallis yauaperyensis* Barb.Rodr., *Vellozia* 116. 1891.

ILLUSTRATION: Cogniaux 1896, f. 3 (p. 116); Luer 2004, f. 106; Karremans & Vieira-Urbe 2020, p. 39.

DISTRIBUTION: BRA COL GUY L.A. VEN.

TYPE: Brazil, *Barbosa Rodrigues s.n.* [holotype, lost; lectotype (selected here), tab. 126, fig. C, in *Iconogr. Orchid. Bresil*, vol. 2, at the Library of Rio de Janeiro Botanical Garden; reproduced in color in *Sprunger et al.* (1996, vol. 1: 182)].

VOUCHER: Colombia, *Idrobo 2134* (COL).

ANATHALLIS Barb.Rodr.

Anathallis anfracta (Luer) Karremans, *Harvard Pap. Bot.* 21(2): 186. 2016. *Kraenzlinella anfracta* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 258. 2004. *Pleurothallis anfracta* Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 52: 92, pl. 1. 1994.

ILLUSTRATION: Ortiz 1997, p. 317 (center); Luer 1994, pl. 1 (p. 93); Karremans & Vieira-Urbe 2020, p. 83.

DISTRIBUTION: *COL.

TYPE: Colombia, *Lehmann 2388* (holotype, G).

Anathallis angustilabia (Schltr.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 247. 2001. *Pleurothallis angustilabia* Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 9: 71. 1921. *Specklinia angustilabia* (Schltr.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 258. 2004.

ILLUSTRATION: Luer 1999a, f. 3 (p. 126); Karremans & Vieira-Urbe 2020, p. 85.

DISTRIBUTION: BOL COL ECU PER VEN.

TYPE: Peru, *Weberbauer 6540* [holotype, B, destroyed; lectotype, AMES; isolectotype, F (Luer 1999a)].

VOUCHER: Colombia, *Lehmann 9076* (AMES, K).

Anathallis brevipes (H.Focke) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 247–248. 2001. *Humboldtia brevipes* (H.Focke) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891. *Panmorphia brevipes* (H.Focke) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 148, f. 103. 2006. *Pleurothallis brevipes* H.Focke, *Tijdschr. Wis- Natuurk. Wetensch. Eerste Kl. Kon. Ned. Inst. Wetensch.* 2: 198–199. 1849. *Specklinia brevipes* (H.Focke) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 259. 2004. *Trichosalpinx brevipes* (H.Focke) Archila, *Revista Guatemal.* 17(1): 67. 2014 [2015].

ILLUSTRATION: Luer 2006, f. 103; Karremans & Vieira-Urbe 2020, p. 98.

DISTRIBUTION: BOL BRA COL ECU PER SUR.

TYPE: Suriname, *Wulfschlaegel 1589* [Focke illustr. 69] [lectotype (selected here), W-R-0043349; isolectotype, GOET-013893; type illustr., W-R-0020789].

VOUCHER: Colombia, *Luer 1961* (MO).

Anathallis citrina (Schltr.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 248. 2001. *Pleurothallis citrina* Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 7: 103. 1920. *Specklinia citrina* (Schltr.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 259. 2004.

ILLUSTRATION: Luer 1999a, f. 8 (p. 127); Santos *et al.* 2019, f. 1d, f. 15; Karremans & Vieira-Urbe 2020, p. 87.

DISTRIBUTION: BOL BRA COL PER.

TYPE: Colombia, *Lehmann 6926* [lectotype

(selected here), K-000584166; isoelectotypes, K-000584167; LE-000014111].

Anathallis deborana (Carnevali & I.Ramírez) Carnevali & I.Ramírez, Harvard Pap. Bot. 21(1): 24. 2016. *Pleurothallis deborana* Carnevali & I.Ramírez, Ann. Missouri Bot. Gard. 77: 553. 1990. *Specklinia deborana* (Carnevali & I.Ramírez) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 260. 2004.

ILLUSTRATION: Romero-González *et al.* 2016, f. 2, f. 3
DISTRIBUTION: COL VEN.

TYPE: Venezuela, *Carnevali & Ramírez 2737* (holotype, VEN).

Anathallis herpethophyton (Schltr.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 115: 258. 2009. *Panmorphia herpethophyton* (Schltr.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 158–159. 2006. *Pleurothallis herpethophyton* Schltr., RePERT. Spec. Nov. Regni Veg. 27: 52. 1929. *Specklinia herpethophyton* (Schltr.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 261. 2004. *Trichosalpinx herpethophyton* (Schltr.) Archila, Revista Guatemal. 17(1): 69. 2014 [2015].

ILLUSTRATION: Luer 2006, f. 119; Karremans & Vieira-Urbe 2020, p. 93. Fig. 3C.

DISTRIBUTION: BOL COL ECU.

TYPE: Bolivia, *Buchtien 6345* [holotype, B, destroyed; lectotype, US (Luer 2006)].

VOUCHER: A photographic voucher of a Colombian specimen reproduced in Karremans & Vieira-Urbe 2020, p. 93.

Anathallis obovata (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16(4): 250. 2001. *Humboldtia obovata* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Pleurothallis obovata* (Lindl.) Lindl., Edwards's Bot. Reg. 28: Misc. 75. 1842. *Specklinia obovata* Lindl., Edwards's Bot. Reg. 25: Misc. 86. 1839.

ILLUSTRATION: Cogniaux 1896, f. 2 (p. 110), f. 3 (p. 111), f. 1, f. 2 (p. 112); Luer 1999a, f. 19 (p. 130); Stenzel 2004, f. 26; Santos *et al.* 2019, f. 11, f. 20; Karremans & Vieira-Urbe 2020, p. 85, p. 86.

DISTRIBUTION: BOL BRA COL COS CUB DOM ECU ELS GUA GUY HAI HON NIC PER PUE VEN.

TYPE: Brazil, unknown collector (holotype, K-000674215; isotype, W).

VOUCHER: Colombia, *Killip & Smith 16401* (AMES, NY).

Anathallis polygonoides (Griseb.) Pridgeon & M.W.Chase, Lindleyana 16(4): 250. 2001. *Humboldtia polygonoides* (Griseb.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Panmorphia polygonoides* (Griseb.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 171, f. 139. 2006. *Pleurothallis polygonoides* Griseb., Fl. Brit. W. I. 609. 1864. *Specklinia polygonoides* (Griseb.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 263. 2004. *Trichosalpinx polygonoides* (Griseb.) Archila, Revista Guatemal. 17(1): 72. 2014 [2015].

ILLUSTRATION: Luer 2006, f. 139; Karremans & Vieira-Urbe 2020, p. 93.

DISTRIBUTION: COL ECU FRE L.A. PER SUR VEN.

TYPE: Trinidad, *Fendler 793* (holotype, K-000584077).

VOUCHER: Colombia, *Prieto-Cruz 1072* (FMB).

Anathallis rabei (Foldats) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 115: 259. 2009.

Panmorphia rabei (Foldats) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 171–172. 2006. *Pleurothallis rabei* Foldats, Acta Bot. Venez. 3: 387. 1968. *Specklinia rabei* (Foldats) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 263. 2004. *Trichosalpinx rabei* (Foldats) Archila, Revista Guatemal. 17(1): 72. 2014 [2015].

ILLUSTRATION: Foldats 1968, f. 27; Luer 1975b, f. 24; Luer 2006, f. 140a, f. 140b; Karremans & Vieira-Urbe 2020, p. 81.

DISTRIBUTION: COL ECU PER VEN.

TYPE: Venezuela, *Steyermark & Rabe 97263* (holotype, VEN).

VOUCHER: Colombia, *Lehmann s.n. HK-140* (K).

ANDINIA (Luer) Luer

Andinia auriculipetala S.Vieira-Urbe & N. Gut., Spec. Orchid. 4(1): LCDP 37. 2020.

ILLUSTRATION: Vieira-Urbe & Gutiérrez 2020, f. 37; Karremans & Vieira-Urbe 2020, p. 116. Fig. 3D

DISTRIBUTION: *COL.

TYPE: Colombia, *Calderón Hernández 190* (holotype, JBB).

Andinia cardiocheila (Luer & R.Escobar) Karremans & S.Vieira-Urbe, Phytotaxa 295(2): 123. 2017. *Brachycladium cardiocheilum* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard.

- 103: 307. 2005. *Lepanthes cardiocheila* Luer & R.Escobar, *Orquideología* 19(2): 86–87. 1994. *Lepanthes cardiochila* Luer & R.Escobar, *Monogr. Syst. Bot. Missouri Bot. Gard.* 52: 6, pl. 1. 1994, sphalm. [?]. *Neooreophilus cardiochilus* (Luer & R.Escobar) Archila, *Revista Guatemal.* 12(2): 75. 2009 [2011]. *Oreophilus cardiochilus* (Luer & R.Escobar) Archila, *Selbyana* 29(2): 203. 2008 [2009]. *Penducella cardiocheila* (Luer & R.Escobar) Luer, *Orchid Digest* 74(2): 69. 2010. ILLUSTRATION: Luer & Escobar 1994, f. 85 (p. 84); Luer 1994, pl. 1; Karremans & Vieira-Urbe 2020, p. 125. DISTRIBUTION: *COL. TYPE: Colombia, *Luer 16773* (holotype, MO).
- Andinia catella*** (Luer & R.Escobar) Karremans & S. Vieira-Urbe, *Phytotaxa* 295(2): 124. 2017. *Brachycladium catellum* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 307. 2005. *Lepanthes catella* Luer & R.Escobar, *Orquideología* 16(1): 10. 1983. *Neooreophilus catellus* (Luer & R.Escobar) Archila, *Revista Guatemal.* 12(2): 75. 2009 [2011]. *Oreophilus catellus* (Luer & R.Escobar) Archila, *Selbyana* 29(2): 203. 2008 [2009]. *Penducella catella* (Luer & R.Escobar) Luer, *Orchid Digest* 74(2): 69. 2010. ILLUSTRATION: Luer & Escobar 1983, p. 11; Luer 1994, pl. 2; Karremans & Vieira-Urbe 2020, p. 115. DISTRIBUTION: *COL. TYPE: Colombia, *Luer et al. 7554* (holotype, SEL).
- Andinia chaoae*** (S. Vieira-Urbe & L. Jost) Karremans & S. Vieira-Urbe, *Phytotaxa* 295(2): 124. 2017. *Neooreophilus chaoae* S. Vieira-Urbe & L. Jost, *Lankesteriana* 15(3): 213. 2015. ILLUSTRATION: Vieira-Urbe & Jost 2015, f. 1, f. 2, f. 3b; Vieira-Urbe & Karremans 2017d, f. 1; Karremans & Vieira-Urbe 2020, p. 114. DISTRIBUTION: *COL. TYPE: Colombia, *Vieira 0020* (holotype, JAUM).
- Andinia ciliaris*** (Luer & Hirtz) Karremans & S. Vieira-Urbe, *Phytotaxa* 295(2): 124. 2017. *Brachycladium ciliare* (Luer & Hirtz) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 307. 2005. *Lepanthes ciliaris* Luer & Hirtz, *Monogr. Syst. Bot. Missouri Bot. Gard.* 52: 8, f. 2. 1994. *Neooreophilus ciliaris* (Luer & Hirtz) Archila, *Revista Guatemal.* 12(2): 76. 2009 [2011]. *Oreophilus ciliaris* (Luer & Hirtz) Archila, *Selbyana* 29(2): 203. 2008 [2009]. *Penducella ciliaris* (Luer & Hirtz) Luer, *Orchid Digest* 74(2): 69. 2010. ILLUSTRATION: Luer 1994, pl. 3; Karremans & Vieira-Urbe 2020, p. 112. Fig. 3E. DISTRIBUTION: COL ECU. TYPE: Ecuador, *Hirtz 2887* (holotype, MO). VOUCHER: Colombia, *Gutiérrez-Morales 13* (JBB).
- Andinia composita*** (Luer & R.Escobar) Karremans & S. Vieira-Urbe, *Phytotaxa* 295(2): 124. 2017. *Brachycladium compositum* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 307. 2005. *Lepanthes composita* Luer & R.Escobar, *Monogr. Syst. Bot. Missouri Bot. Gard.* 52: 11, pl. 4. 1994. *Neooreophilus compositus* (Luer & R.Escobar) Archila, *Revista Guatemal.* 12(2): 77. 2009 [2011]. *Oreophilus compositus* (Luer & R.Escobar) Archila, *Selbyana* 29(2): 203. 2008 [2009]. *Penducella composita* (Luer & R.Escobar) Luer, *Orchid Digest* 74(2): 69. 2010. ILLUSTRATION: Luer & Escobar 1994, f. 87 (p. 84); Luer 1994, pl. 4; Karremans & Vieira-Urbe 2020, p. 123. DISTRIBUTION: *COL. TYPE: Colombia, *De Wilde 397* (holotype, MO).
- Andinia dactyla*** (Garay) Karremans & S. Vieira-Urbe, *Phytotaxa* 295(2): 124. 2017. *Brachycladium dactylum* (Garay) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 307. 2005. *Lepanthes dactyla* Garay, *Orquideología* 6(1): 13. 1971. *Neooreophilus dactylus* (Garay) Archila, *Revista Guatemal.* 12(2): 78. 2009 [2011]. *Oreophilus dactylus* (Garay) Archila, *Selbyana* 29(2): 203. 2008 [2009]. *Penducella dactyla* (Garay) Luer, *Orchid Digest* 74(2): 69. 2010. ILLUSTRATION: Luer 1994, pl. 5; Karremans & Vieira-Urbe 2020, p. 117, p. 118. DISTRIBUTION: *COL. TYPE: Colombia, *Escobar et al. 645* (holotype, AMES).
- Andinia destituta*** (Luer & R.Escobar) Karremans & S. Vieira-Urbe, *Phytotaxa* 295(2): 124. 2017. *Brachycladium destitutum* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 307. 2005. *Lepanthes destituta* Luer & R.Escobar, *Orquideología* 17(3): 179–182. 1988. *Neooreophi-*

- lus destitutus* (Luer & R.Escobar) Archila, *Revista Guatemal.* 12(2): 78. 2009 [2011]. *Oreophilus destitutus* (Luer & R.Escobar) Archila, *Selbyana* 29(2): 203. 2008 [2009]. *Penducella destituta* (Luer & R.Escobar) Luer, *Orchid Digest* 74(2): 69. 2010.
- ILLUSTRATION: Luer & Escobar 1988, p. 181; Luer 1994, pl. 6; Karremans & Vieira-Urbe 2020, p. 126.
- DISTRIBUTION: *COL.
- TYPE: Colombia, *Luer et al. 10342* (holotype, MO).
- Andinia geminipetala*** (Luer & J. Portilla) Karremans & S.Vieira-Urbe, *Phytotaxa* 295(2): 124. 2017. *Brachycladium geminipetalum* (Luer & J. Portilla) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 307. 2005. *Lepanthes geminipetala* Luer & J. Portilla, *Monogr. Syst. Bot. Missouri Bot. Gard.* 88: 89, f. 314. 2002. *Neooreophilus geminipetalus* (Luer & J. Portilla) Archila, *Revista Guatemal.* 12(2): 79. 2009 [2011]. *Oreophilus geminipetala* (Luer & J. Portilla) Archila, *Selbyana* 29(2): 204. 2008 [2009]. *Penducella geminipetala* (Luer & J. Portilla) Luer, *Orchid Digest* 74(2): 70. 2010.
- ILLUSTRATION: Ortiz 2009b, f. 5 (p. 126); Luer 2002a, f. 314; Karremans & Vieira-Urbe 2020, p. 118.
- DISTRIBUTION: COL ECU.
- TYPE: Ecuador, *Luer 19656* (holotype, MO).
- VOUCHER: Colombia, *Ramírez et al. 7171* (CAUP).
- Andinia hernandoi*** Est.Domínguez & S.Vieira-Urbe, *Pleurothallids Neotropical Jewels I*: 120. 2020.
- ILLUSTRATION: Karremans & Vieira-Urbe 2020, p. 119, p. 120. Fig. 3F.
- DISTRIBUTION: *COL.
- TYPE: Colombia, *Domínguez et al. 1673* (holotype, MEDEL).
- Andinia hipocrepica*** (Luer & R.Escobar) Karremans & S.Vieira-Urbe, *Phytotaxa* 295(2): 124. 2017. *Brachycladium hipocrepicum* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 307. 2005. *Lepanthes hipocrepica* Luer & R.Escobar, *Orquideología* 18(1): 54, 88. 1991. *Neooreophilus hipocrepicus* (Luer & R.Escobar) Archila, *Revista Guatemal.* 12(2): 80. 2009 [2011]. *Oreophilus hipocrepicus* (Luer & R.Escobar) Archila, *Selbyana* 29(2): 204. 2008 [2009]. *Penducella hipocrepica* (Luer & R.Escobar) Luer, *Orchid Digest* 74(2): 70. 2010.
- ILLUSTRATION: Luer & Escobar 1991a, p. 55; Luer 1994, pl. 8; Karremans & Vieira-Urbe 2020, p. 113.
- DISTRIBUTION: COL ECU.
- TYPE: Colombia, *Luer et al. 11343* (holotype, MO; isotype, JAUM).
- Andinia hystricosa*** (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 251. 2001. *Pleurothallis hystricosa* Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 52: 54, 56, pl. 2. 1994.
- ILLUSTRATION: Luer 1994, pl. 2 (p. 57).
- DISTRIBUTION: *COL.
- TYPE: Colombia, *Little Jr. 8519* (holotype, US).
- Andinia irrasa*** (Luer & R.Escobar) Karremans & S. Vieira-Urbe, *Phytotaxa* 295(2): 124. 2017. *Brachycladium irrasum* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 307. 2005. *Lepanthes irrasa* Luer & R.Escobar, *Monogr. Syst. Bot. Missouri Bot. Gard.* 52: 18. 1994. *Neooreophilus irrasus* (Luer & R.Escobar) Archila, *Revista Guatemal.* 12(2): 80. 2009 [2011]. *Oreophilus irrasus* (Luer & R.Escobar) Archila, *Selbyana* 29(2): 204. 2008 [2009]. *Penducella irrasa* (Luer & R.Escobar) Luer, *Orchid Digest* 74(2): 70. 2010; Karremans & Vieira-Urbe 2020, p. 112.
- ILLUSTRATION: Luer 1994, pl. 9.
- DISTRIBUTION: *COL.
- TYPE: Colombia, *Luer et al. 10341* (holotype, MO).
- Andinia longiserpens*** (C.Schweinf.) Karremans & Mark Wilson, *Phytotaxa* 295(2): 126. 2017. *Masdevalliantha longiserpens* (C.Schweinf.) Szlach. & Marg., *Polish Bot. J.* 46(2): 117. 2001. *Pleurothallis longiserpens* C.Schweinf., *Bot. Mus. Leafl.* 10: 183, t. 20. 1942.
- ILLUSTRATION: Luer 2006, f. 47; Karremans & Vieira-Urbe 2020, p. 103.
- DISTRIBUTION: COL PER.
- TYPE: Peru, *Weberbauer 7510* (holotype, AMES; isotype, F, US, W).
- VOUCHER: Colombia, *Ortiz-Valdivieso 97* (COL).
- Andinia lueri*** S.Vieira-Urbe & Karremans, *Orquideología* 33(2): 116. 2016.
- ILLUSTRATION: Karremans & Vieira-Urbe 2016, f. 1, f. 3(b), f. 4; Karremans & Vieira-Urbe 2020, p. 115.
- DISTRIBUTION: *COL.
- TYPE: Colombia, *Luer et al. 8034* (holotype, SEL).

- Andinia lunaris*** (Luer) Karremans & S.Vieira-Urbe, Phytotaxa 295(2): 124. 2017. *Brachycladium lunare* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 307. 2005. *Lepanthes lunaris* Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 52: 21. 1994. *Neooreophilus lunaris* (Luer) Archila, Revista Guatemal. 12(2): 81. 2009 [2011]. *Oreophilus lunaris* (Luer) Archila, Selbyana 29(2): 205. 2008 [2009]. *Penducella lunaris* (Luer) Luer, Orchid Digest 74(2): 70. 2010.
ILLUSTRATION: Luer 1994, pl. 10; Karremans & Vieira-Urbe 2020, p. 116.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Lehmann 277* (holotype, G).
- Andinia lupula*** (Luer & Hirtz) Karremans & S.Vieira-Urbe, Phytotaxa 295(2): 124. 2017. *Brachycladium lupulum* (Luer & Hirtz) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 307. 2005. *Lepanthes lupula* Luer & Hirtz, Amer. Orchid Soc. Bull. 53(11): 1162. 1984. *Neooreophilus lupulus* (Luer & Hirtz) Archila, Revista Guatemal. 12(2): 81. 2009 [2011]. *Oreophilus lupulus* (Luer & Hirtz) Archila, Selbyana 29(2): 205. 2008 [2009]. *Penducella lupula* (Luer & Hirtz) Luer, Orchid Digest 74(2): 70. 2010.
ILLUSTRATION: Luer 1994, pl. 11; Karremans & Vieira-Urbe 2020, p. 116. Fig. 3G.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 9817* (holotype, SEL).
VOUCHER: Colombia, *Vieira et al. 391* (JAUM).
- Andinia macrotica*** (Luer & Dalström) Karremans & S.Vieira-Urbe, Phytotaxa 295(2): 126. 2017. *Lepanthes macrotica* Luer & Dalström, Monogr. Syst. Bot. Missouri Bot. Gard. 61(4): 3. 1996. *Neooreophilus macrotica* (Luer & Dalström) Archila, Revista Guatemal. 12(2): 82. 2009 [2011]. *Oreophilus macroticus* (Luer & Dalström) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 115: 257. 2009. *Penducella macrotica* (Luer & Dalström) Luer, Orchid Digest 74(2): 70. 2010.
ILLUSTRATION: Luer 1996b, pl. 26; Karremans & Vieira-Urbe 2020, p. 118.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Dalström et al. 2132* (holotype, MO).
VOUCHER: Colombia, *Vieira 390* (JAUM).
- Andinia micropetala*** (L.O.Williams) Karremans & S.Vieira-Urbe, Phytotaxa 295(2): 124. 2017. *Brachycladium micropetalum* (L.O.Williams) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 307. 2005. *Lepanthes micropetala* L.O.Williams, Bot. Mus. Leaf. 9: 4. 1940. *Neooreophilus micropetalus* (L.O.Williams) Archila, Revista Guatemal. 12(2): 82. 2009 [2011]. *Oreophilus micropetalus* (L.O.Williams) Archila, Selbyana 29(2): 205. 2008 [2009]. *Penducella micropetala* (L.O.Williams) Luer, Orchid Digest 74(2): 70. 2010.
ILLUSTRATION: Luer 1994, pl. 12; Karremans & Vieira-Urbe 2020, p. 111.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Pennell & Killip 7331* (holotype, AMES).
- Andinia monilia*** (Luer & R.Escobar) Karremans & S.Vieira-Urbe, Phytotaxa 295(2): 124. 2017. *Brachycladium monilium* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 307. 2005. *Lepanthes monilia* Luer & R.Escobar, Orquideología 16(1): 12. 1983. *Neooreophilus monilius* (Luer & R.Escobar) Archila, Revista Guatemal. 12(2): 83. 2009 [2011]. *Oreophilus monilius* (Luer & R.Escobar) Archila, Selbyana 29(2): 205. 2008 [2009]. *Penducella monilia* (Luer & R.Escobar) Luer, Orchid Digest 74(2): 70. 2010.
ILLUSTRATION: Luer & Escobar 1983, p. 13; Luer 1994, pl. 13; Karremans & Vieira-Urbe 2020, p. 114.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 8036* (holotype, SEL).
- Andinia montis-rotundi*** (P.Ortiz) Karremans & S.Vieira-Urbe, Phytotaxa 295(2): 124. 2017. *Lepanthes montis-rotundi* P.Ortiz, Orquideología 20: 318. 1997. *Oreophilus montis-rotundi* (P.Ortiz) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 115: 257. 2009. *Penducella montis-rotundi* (P.Ortiz) Luer, Orchid Digest 74(2): 70. 2010.
ILLUSTRATION: Ortiz 1997, p. 317 (top center), p. 322 (top left); Karremans & Vieira-Urbe 2020, p. 118.
DISTRIBUTION: *COL.
TYPE: Colombia, *Ortiz 705* (holotype, HUJ).
- Andinia nummularia*** (Rchb.f.) Karremans & S.Vieira-Urbe, Phytotaxa 295(2): 124. 2017. *Brachycladium nummularium* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 307. 2005. *Lepanthes nummularia* Rchb.f., Xenia Orchid. 1: 142. 1856. *Neooreophilus nummularius* (Rchb.f.) Archila, Revista Guatemal. 12(2): 83. 2009 [2011]. *Oreophilus*

nummularius (Rchb.f.) Archila, Selbyana 29(2): 205. 2008 [2009]. *Penducella nummularia* (Rchb.f.) Luer, Orchid Digest 74(2): 70. 2010.

ILLUSTRATION: Luer 1994, pl. 14, pl. 15; Karremans & Vieira-Urbe 2020, p. 109, p. 110.

DISTRIBUTION: COL ECU PER.

TYPE: Ecuador, *Jameson 97* (holotype, W).

VOUCHER: Colombia, *Luer 7554* (MO).

Andinia obesa S.Vieira-Urbe & Karremans, Lankesteriana 17(2): 311. 2017.

ILLUSTRATION: Vieira-Urbe & Karremans 2017a, f. 1, 2; Karremans & Vieira-Urbe 2020, p. 110.

DISTRIBUTION: *COL.

TYPE: Colombia, *Vieira 0022* (holotype, JAUM).

Andinia ortiziana (S.Vieira-Urbe & Thorerle) Karremans & S.Vieira-Urbe, Phytotaxa 295(2): 124–125. 2017. *Lepanthes ortizii* J.M.H. Shaw, Orchid Review Suppl., 124(1314): 37. 2016. *Neooreophilus ortizianus* S.Vieira-Urbe & Thorerle, Orquideología 28(2): 135. 2011.

ILLUSTRATION: Vieira-Urbe & Thorerle 2011, f. 1, f. 2, p. 138; Karremans & Vieira-Urbe 2020, p. 126.

DISTRIBUTION: *COL.

TYPE: Colombia, *Vieira 0001* (holotype, HPUJ).

Andinia panica (Luer & Dalström) Pridgeon & M.W.Chase, Lindleyana 16(4): 251. 2001. *Pleurothallis panica* Luer & Dalström, Monogr. Syst. Bot. Missouri Bot. Gard. 61(3): 6. 1996.

ILLUSTRATION: Luer 1996b, pl. 9; Karremans & Vieira-Urbe 2020, p. 108.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Dalström et al. 2113* (holotype, MO).

VOUCHER: Colombia, *Medina T.1124* (JAUM).

Andinia pendens (Garay) Karremans & S.Vieira-Urbe, Phytotaxa 295(2): 125. 2017. *Brachycladium pendens* (Garay) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 307. 2005. *Lepanthes pendens* Garay, Canad. J. Bot. 34: 252. 1956. *Neooreophilus pendens* (Garay) Archila, Revista Guatemal. 12(2): 84. 2009 [2011]. *Oreophilus pendens* (Garay) Archila, Selbyana 29(2): 206. 2008 [2009]. *Penducella pendens* (Garay) Luer, Orchid Digest 74(2): 70. 2010.

ILLUSTRATION: Garay 1956a, f. 10D; Luer 1994, pl. 16; Karremans & Vieira-Urbe 2020, p. 126.

DISTRIBUTION: *COL.

TYPE: Colombia, *Grant 9770* (holotype, US; isotypes, AMES, WIS).

Andinia pilosella (Rchb.f.) Karremans & S.Vieira-Urbe, Phytotaxa 295(2): 125. 2017. *Brachycladium pilosellum* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 307. 2005. *Lepanthes pilosella* Rchb.f., Flora 69: 556. 1886. *Neooreophilus pilosellus* (Rchb.f.) Archila, Revista Guatemal. 12(2): 85. 2009 [2011]. *Oreophilus pilosellus* (Rchb.f.) Archila, Selbyana 29(2): 206. 2008 [2009]. *Penducella pilosella* (Rchb.f.) Luer, Orchid Digest 74(2): 71. 2010.

ILLUSTRATION: Garay 1956a, f. 10C; Luer 1994, pl. 18; Vásquez & Ibsch 2000, pl. 43; Ocupa Horna et al. 2021, f. 6d; Karremans & Vieira-Urbe 2020, p. 121, p. 122.

DISTRIBUTION: BOL COL ECU.

TYPE: Colombia, *Lehmann 3217* (holotype, W).

Andinia platysepala (Luer & R.Escobar) Karremans & S.Vieira-Urbe, Phytotaxa 295(2): 125. 2017. *Brachycladium platysepalum* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 308. 2005. *Lepanthes platysepala* Luer & R.Escobar, Monogr. Syst. Bot. Missouri Bot. Gard. 52: 36. 1994. *Neooreophilus platysepalus* (Luer & R.Escobar) Archila, Revista Guatemal. 12(2): 85–86. 2009 [2011]. *Oreophilus platysepalus* (Luer & R.Escobar) Archila, Selbyana 29(2): 206. 2008 [2009]. *Penducella platysepala* (Luer & R.Escobar) Luer, Orchid Digest 74(2): 71. 2010.

ILLUSTRATION: Luer 1994, pl. 19; Karremans & Vieira-Urbe 2020, p. 123, p. 124.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 11354* (holotype, MO).

Andinia pseudocaulescens (L.B. Sm. & S.K. Harris) Karremans & S.Vieira-Urbe, Phytotaxa 295(2): 125. 2017. *Brachycladium pseudocaulescens* (L.B. Sm. & S.K. Harris) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 308. 2005. *Lepanthes pseudocaulescens* L.B. Sm. & S.K. Harris, Bot. Mus. Leaflet 2(3): 33. 1934. *Neooreophilus pseudocaulescens* (L.B. Sm. & S.K. Harris) Archila, Revista Guatemal. 12(2): 86. 2009 [2011]. *Oreophilus pseudocaulescens* (L.B. Sm. & S.K. Harris) Archila, Selbyana 29(2): 206. 2008 [2009]. *Penducella pseudocaulescens* (L.B. Sm. & S.K. Harris) Luer, Orchid Digest 74(2): 71. 2010.

ILLUSTRATION: Luer 1994, pl. 20; Vieira-Uribe & Karremans 2018b, f. 14; Karremans & Vieira-Uribe 2020, p. 125.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Lehmann B.T. 352* (holotype, GH; isotype, AMES, G).

Andinia sibundoyensis (Kolan.) Karremans & S.Vieira-Uribe, *Phytotaxa* 295(2): 125. 2017. *Lepanthes sibundoyensis* (Kolan.) J.M.H. Shaw, *Orchid Review Suppl.*, 124(1314): 37. 2016. *Neooreophilus sibundoyensis* Kolan., *Ann. Bot. Fennici* 50: 169. 2014. ILLUSTRATION: Karremans & Vieira-Uribe 2020, p. 113. DISTRIBUTION: *COL.

TYPE: Colombia, *Kolanowska & Barrera s.n.* (holotype, UGDA; isotype, COL).

Andinia spiralis (Ruiz & Pav.) Karremans & Mark Wilson, *Phytotaxa* 295(2): 126. 2017. *Humboldtia spiralis* Ruiz & Pav., *Syst. Veg. Fl. Peruv. Chil.* 237. 1798. *Pleurothallis spiralis* (Ruiz & Pav.) Lindl., *Gen. Sp. Orchid. Pl.* 7. 1830. *Stelis spiralis* (Ruiz & Pav.) Pers., *Syn. Pl.* 2: 524. 1807. *Xenosia spiralis* (Ruiz & Pav.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 265. 2004.

ILLUSTRATION: Luer 2006, f. 185; Luer 1975f, f. 82; Karremans & Vieira-Uribe 2020, p. 101, p. 102.

DISTRIBUTION: COL ECU PER.

TYPE: Peru, *Pavón s.n.* (holotype, MA-814351).

VOUCHER: Colombia, *Lehmann 4625* (W).

Andinia triangularis (Luer) Karremans & S.Vieira-Uribe, *Phytotaxa* 295(2): 125. 2017. *Brachycladium triangulare* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 308. 2005. *Lepanthes triangularis* Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 52: 43. 1994. *Neooreophilus triangularis* (Luer) Archila, *Revista Guatemal.* 12(2): 87–88. 2009 [2011]. *Oreophilus triangularis* (Luer) Archila, *Selbyana* 29(2): 207. 2008 [2009]. *Penducella triangularis* (Luer) Luer, *Orchid Digest* 74(2): 71. 2010.

ILLUSTRATION: Luer 1994, pl. 23.

DISTRIBUTION: *COL.

TYPE: Colombia, *Barclay & Juajibioy 6809* (holotype, MO).

Andinia trimytera (Luer & R.Escobar) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 252. 2001. *Pleurothallis trimytera* Luer & R.Escobar, *Orquideología* 16: 34. 1983.

ILLUSTRATION: Luer & Escobar 1983, p. 35; Luer

1994, pl. 7 (p. 65); Karremans & Vieira-Uribe 2020, p. 108.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Luer et al. 8033* (holotype, SEL).

Andinia ursula (Luer & R.Escobar) Karremans & S.Vieira-Uribe, *Phytotaxa* 295(2): 125. 2017. *Brachycladium ursulum* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 308. 2005. *Lepanthes ursula* Luer & R.Escobar, *Monogr. Syst. Bot. Missouri Bot. Gard.* 52: 46. 1994. *Neooreophilus ursulus* (Luer & R.Escobar) Archila, *Revista Guatemal.* 12(2): 88. 2009 [2011]. *Oreophilus ursulus* (Luer & R.Escobar) Archila, *Selbyana* 29(2): 207. 2008 [2009]. *Penducella ursula* (Luer & R.Escobar) Luer, *Orchid Digest* 74(2): 71. 2010. ILLUSTRATION: Luer 1994, pl. 24; Karremans & Vieira-Uribe 2020, p. 120.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 8035* (holotype, SEL). Note: The type was cited as *Luer et al. 8034* in the protologue, but the type specimen at SEL is labeled *Luer et al. 8035*. This is a correctable error and thus the number is emended here.

Andinia vestigipetala (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 252. 2001. *Lueranthos vestigipetalus* (Luer) Szlach. & Marg., *Polish Bot. J.* 46(2): 117. 2001 [2002]. *Pleurothallis vestigipetala* Luer, *Selbyana* 3(3,4): 404. 1977.

ILLUSTRATION: Luer 1986, pl. 9; Luer 1994, pl. 8 (p. 67); Karremans & Vieira-Uribe 2020, p. 108.

DISTRIBUTION: BOL COL ECU PER.

TYPE: Ecuador, *Luer et al. 1496* (holotype, SEL).

VOUCHER: Colombia, *Lehmann 7087* (K).

Andinia vieira-pereziana (P.Ortiz) Karremans & S.Vieira-Uribe, *Phytotaxa* 295(2): 125. 2017. *Lepanthes vieira-pereziana* (P.Ortiz) Pfahl, *Internet Orchid Sp. Photo Encycl. Nomencl. Notes* 1 Feb. 2014. 2014. *Neooreophilus vieira-perezianus* P.Ortiz, *Orquideología* 28(1): 7. 2011.

ILLUSTRATION: Ortiz 2011, p. 7(top), p. 10; Karremans & Vieira-Uribe 2020, p. 115.

DISTRIBUTION: *COL.

TYPE: Colombia, *Ortiz 1398* (holotype, HPUJ).

Note: *Vieira & Pérez 003* indicated as isotype, but is a paratype.

Andinia xenion (Luer & R.Escobar) Karremans & Mark Wilson, *Phytotaxa* 295(2): 126. 2017. *Pleu-*

rothallis xenion Luer & R.Escobar, Orquideología 16(1): 38. 1983. *Xenosia xenion* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 265. 2004.

ILLUSTRATION: Luer & Escobar 1983, p. 39; Luer 1986, pl. 52; Karremans & Vieira-Urbe 2020, p. 103.
DISTRIBUTION: *COL.

TYPE: Colombia, *Portillo 7981* (holotype, SEL; isotypes, COL, JAUM).

ANDRETTAEA Luer

Andrettaea barberiana (Rchb.f.) Karremans, **comb. nov.** Bas.: *Pleurothallis barberiana* Rchb.f., Gard. Chron., n.s. 16(392): 6. 1881. *Humboldtia barberiana* (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Muscarella barberiana* (Rchb.f.) Szlach. & Sawicka, Orchids French Guiana: 195. 2012. *Verapazia barberiana* (Rchb.f.) Chiron & Szlach., Richardiana, N.S. 2: 167. 2018.

ILLUSTRATION: Luer & Escobar 1996, p. 87; Luer 2006, f. 63, f. 90; Karremans & Vieira 2020, p. 179.
DISTRIBUTION: COL ECU.

TYPE: Unknown country, *Barber sub Low s.n.* (holotype, W-R-25696).

VOUCHER: Colombia, *Luer 16763* (MO).

Andrettaea bota-caucanensis (Urbe Vélez & Saule-da) Karremans, **comb. nov.** Bas.: *Muscarella bota-caucanensis* Urbe Vélez & Sauleda, New World Orchid. Nomencl. Notes 101: 2. 2021.

ILLUSTRATION: Urbe-Velez & Sauleda 2021, p. 2–5.
DISTRIBUTION: *COL.

TYPE: Colombia, *Ordoñez s.n.* (holotype, HPUJ).

Note: The holotype of this taxon, like others described in this journal seem not to have been deposited at HPUJ. They may be invalid if it is confirmed that the type specimens were never prepared.

Andrettaea cabellensis (Rchb.f.) A.Doucette, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 8(1): 2. 2022. *Humboldtia cabellensis* (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Muscarella cabellensis* (Rchb.f.) Karremans, Phytotaxa 272(1): 29. 2016. *Pleurothallis cabellensis* Rchb.f., Linnaea 22: 832. 1849. *Specklinia cabellensis* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16(4): 256–257. 2001. *Sylphia cabellensis* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 227.

2006. *Verapazia cabellensis* (Rchb.f.) Chiron & Szlach., Richardiana, N.S. 2: 167. 2018.

ILLUSTRATION: Luer 2006, f. 179; Karremans & Vieira 2020, p. 172.

DISTRIBUTION: COL VEN.

TYPE: Venezuela, *Funk & Schlim 578* (holotype, W-R-0025568).

VOUCHER: Colombia, *Schlim 1021* (W-R-0025568).

Andrettaea cestrochila (Garay) A.Doucette, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 8(1): 2. 2022. *Muscarella cestrochila* (Garay) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 97–98. 2006. *Pleurothallis cestrochila* Garay, Orquideología 8: 180. 1973. *Specklinia cestrochila* (Garay) Pridgeon & M.W.Chase, Lindleyana 16(4): 257. 2001.

ILLUSTRATION: Luer 2006, f. 51; Karremans & Vieira 2020, p. 170.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Escobar 715* (holotype, AMES).

Andrettaea claviculata (Luer & Hirtz) A.Doucette, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 8(1): 3. 2022. *Muscarella claviculata* (Luer & Hirtz) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 98. 2006. *Pleurothallis claviculata* Luer & Hirtz, Lindleyana 11(3): 153–154. 1996. *Specklinia claviculata* (Luer & Hirtz) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 259. 2004.

ILLUSTRATION: Luer 2006, f. 52; Luer 1996c, f. 16; Karremans & Vieira 2020, p. 169; Karremans *et al.* 2021, f. 2b.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Hirtz et al. 4635* (holotype, MO-5259574).

VOUCHER: A photographic voucher of a Colombian specimen reproduced in Karremans & Vieira-Urbe 2020, p. 169.

Andrettaea clavigera (Luer) A.Doucette, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 8(1): 3. 2022. *Muscarella clavigera* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 99. 2006. *Pleurothallis clavigera* Luer, Selbyana 3(3,4): 268. 1977. *Specklinia clavigera* (Luer) Pridgeon & M.W.Chase, Lindleyana 16(4): 257. 2001.

ILLUSTRATION: Luer 2006, f. 53; Misas Urreta 2005, p. 519; Karremans & Vieira 2020, p. 178.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer 1468* (holotype, SEL).

VOUCHER: Colombia, *Misas Urreta 114* (HPUJ).

Andreettaea corynetes (Luer & R. Vásquez) A. Doucette, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 8(1): 3. 2022. *Muscarella corynetes* (Luer & R. Vásquez) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 100. 2006. *Pleurothallis corynetes* Luer & R. Vásquez, Phytologia 46(6): 363. 1980. *Specklinia corynetes* (Luer & R. Vásquez) Pridgeon & M.W.Chase, Lindleyana 16(4): 257. 2001.

ILLUSTRATION: Luer 2006, f. 55; Ortiz & Medina 2012, f. 11.

DISTRIBUTION: BOL COL.

TYPE: Bolivia, *Luer et al. 5131* (holotype, SEL).

VOUCHER: A photographic voucher of a Colombian specimen reproduced in Ortiz & Medina (2012).

Andreettaea cryptophyta (Barb.Rodr.) A.Doucette, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 8(1): 3. 2022. *Lepanthes cryptophyta* Barb.Rodr., Gen. Sp. Orchid. 2: 65. 1881. *Muscarella cryptophyta* (Barb.Rodr.) Bogarín & Karremans, Pleurothallids Neotropical Jewels I: 175. 2020.

ILLUSTRATION: Cogniaux 1896, f. 4 (p. 116); Luer 2006, f. 96; Misas Urreta 2005, p. 549; Karremans & Vieira-Urbe 2020, p. 176.

DISTRIBUTION: BOL BRA COL COS ECU VEN.

TYPE: Brazil, *Barbosa Rodrigues s.n.* [holotype, lost; lectotype, IOB (3) t. 116 (Karremans & Vieira-Urbe 2020)].

VOUCHER: Colombia, *Luer 2187* (SEL).

Andreettaea divexa (Ames) A.Doucette, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 8(1): 4. 2022. *Muscarella divexa* (Ames) Karremans & S.Vieira-Urbe, Pleurothallids Neotropical Jewels I: 178. 2020. *Pleurothallis dichotoma* Ames, Sched. Orch. 6: 58–59. 1923, *nom. illeg.* *Pleurothallis divexa* Ames, Sched. Orch. 7: 20, t. 5. 1924. Non *Pleurothallis dichotoma* (Poepp. & Endl.) Schltr. [1921].

ILLUSTRATION: Misas Urreta 2005, p. 566; Karremans & Vieira-Urbe 2020, p. 177.

DISTRIBUTION: COL COS.

TYPE: Costa Rica, *Lankester 464* (holotype, AMES).

VOUCHER: Colombia, *Misas Urreta 97* (HPUJ).

Andreettaea echinodes (Luer & R.Escobar) A.Doucette, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 8(1): 4. 2022. *Muscarella echinodes* (Luer &

R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 101–102. 2006. *Pleurothallis echinodes* Luer & R.Escobar, Orquideología 16(1): 24. 1983. *Specklinia echinodes* (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16(4): 257. 2001.

ILLUSTRATION: Luer & Escobar 1983, p. 25; Luer 2006, f. 58.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 7675* (holotype, SEL); isotypes, AAU, COL, JAUM).

Andreettaea ichthyonekys (Luer) A.Doucette, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 8(1): 5. 2022. *Muscarella ichthyonekys* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 106–107. 2006. *Pleurothallis ichthyonekys* Luer, Selbyana 3(3–4): 316–318. 1977. *Specklinia ichthyonekys* (Luer) Pridgeon & M.W.Chase, Lindleyana 16(4): 258. 2001.

ILLUSTRATION: Luer 2006, f. 66.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer et al. 1571* (holotype, MO).

VOUCHER: Colombia, *Morales & Giraldo 6008* (HUA, MO).

Andreettaea intonsa (Luer & R.Escobar) A.Doucette, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 8(1): 5. 2022. *Muscarella intonsa* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 107–108. 2006. *Pleurothallis intonsa* Luer & R.Escobar, Orquideología 14(2): 156. 1981. *Specklinia intonsa* (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16(4): 258. 2001.

ILLUSTRATION: Luer & Escobar 1981a, p. 157; Luer 2006, f. 68; Karremans & Vieira-Urbe 2020, p. 175.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar et al. 1121* (holotype, JAUM).

Andreettaea latilabris (Foldats) A.Doucette, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 8(1): 5. 2022. *Muscarella latilabris* (Foldats) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 108–109. 2006. *Pleurothallis latilabris* Foldats, Acta Bot. Venez. 3: 376. 1968. *Specklinia latilabris* (Foldats) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 261. 2004, *nom. superfl.* *Specklinia latilabris* (Foldats) Pridgeon & M.W.Chase, Lindleyana 16(4): 258. 2001.

ILLUSTRATION: Foldats 1968, f. 24; Luer 2006, f. 70;

Karremans & Vieira-Urbe 2020, p. 169.

DISTRIBUTION: COL VEN.

TYPE: Venezuela, *Steryvermark & Dunsterville 10881* (holotype, VEN).

VOUCHER: Colombia, *De Wilde 4437* (MO).

Andreettaea macroblepharis (Rchb.f.) A.Doucette, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 8(1): 6. 2022. *Muscarella macroblepharis* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 110–111. 2006. *Pleurothallis macroblepharis* Rchb.f., Gard. Chron., n.s. 2: 772. 1874. *Specklinia macroblepharis* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16(4): 258. 2001.

ILLUSTRATION: Luer 2006, f. 74; Karremans & Vieira-Urbe 2020, p. 180.

DISTRIBUTION: COL ECU PER.

TYPE: Peru, *Kirchhoff s.n.* (holotype, W; isotype, AMES).

VOUCHER: Colombia, *Luer 13084* (MO).

Andreettaea oblonga (Luer & Hirtz) A.Doucette, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 8(1): 6. 2022. *Muscarella oblonga* (Luer & Hirtz) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 113. 2006. *Pleurothallis oblonga* Luer & Hirtz, Lindleyana 11(3): 174. 1996. *Specklinia oblonga* (Luer & Hirtz) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 262. 2004.

ILLUSTRATION: Luer 2006, f. 77; Luer 1996c, f. 42; Karremans & Vieira-Urbe 2020, p. 172.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer et al. 12479* (holotype, MO).

VOUCHER: Colombia, *González YGO2070* (COL).

Andreettaea quinqueseta (Ames) A.Doucette, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 8(1): 7. 2022. *Pleurothallis quinqueseta* Ames, Sched. Orch. 9: 35–37, f. 6. 1925. *Muscarella quinqueseta* (Ames) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 114. 2006. *Specklinia quinqueseta* (Ames) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 263. 2004.

ILLUSTRATION: Luer 2006, f. 79; Karremans *et al.* 2016, f. 8h; Karremans & Vieira-Urbe 2020, p. 182.

DISTRIBUTION: COL COS PAN.

TYPE: Costa Rica, *Standley 36283* (holotype, AMES; isotype, US).

VOUCHER: A photographic voucher of a Colombi-

an specimen reproduced in Karremans & Vieira-Urbe 2020, p. 182.

Andreettaea samacensis (Ames) A.Doucette, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 8(1): 7. 2022. *Muscarella samacensis* (Ames) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 115–116. 2006. *Pleurothallis samacensis* Ames, Sched. Orch. 2: 22–24. 1923. *Specklinia samacensis* (Ames) Pridgeon & M.W.Chase, Lindleyana 16(4): 259. 2001.

ILLUSTRATION: Luer 1975f, f. 74; Luer 2006, f. 81; Karremans & Vieira-Urbe 2020, p. 168.

DISTRIBUTION: COL COS ECU GUA VEN.

TYPE: Guatemala, *Ames 765* (holotype, AMES).

VOUCHER: Colombia, *Luer 2311* (SEL).

Andreettaea semperflorens (Lindl.) A.Doucette, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 8(1): 7. 2022. *Pleurothallis acuminata* H.Focke, Tijdschr. Wis- Natuurk. Wetensch. Eerste Kl. Kon. Ned. Inst. Wetensch. 2: 195–196. 1849, nom. illeg. *Humboldtia semperflorens* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Muscarella semperflorens* (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 117. 2006. *Pleurothallis semperflorens* Lindl., Fol. Orchid. ~Pleurothallis~ 40. 1859. *Specklinia semperflorens* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16(4): 259. 2001.

ILLUSTRATION: Luer 1999a, f. 1 (p. 126); Luer 2006, f. 83; Karremans & Vieira-Urbe 2020, p. 174.

DISTRIBUTION: BOL BRA COL ECU FRE GUY PER SUR VEN.

TYPE: Suriname, *Focke 72* [lectotype (selected here), K-L, type illustr.; isolectotype, W-R-53801, type illustr. bottom left].

VOUCHER: Colombia, *Lehmann 8204* (K).

Andreettaea sibatensis (F.Lehm. & Kraenzl.) A.Doucette, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 8(1): 7. 2022. *Muscarella sibatensis* (F.Lehm. & Kraenzl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 117–118. 2006. *Pleurothallis sibatensis* F.Lehm. & Kraenzl., Bot. Jahrb. Syst. 26: 445. 1899. *Specklinia sibatensis* (F.Lehm. & Kraenzl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 263. 2004.

ILLUSTRATION: Luer 2006, f. 84.

DISTRIBUTION: *COL.

TYPE: Colombia, *Lehmann 2553* (holotype,

K-000584285; isotypes, AMES-00074747, BM-000082446, BR-0000006572587; LE-00006521).

Andreettaea tamboensis (Luer & R.Escobar) A.Doucette, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 8(1): 8. 2022. *Muscarella tamboensis* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 119–120. 2006. *Pleurothallis tamboensis* Luer & R.Escobar, Orquideología 14(2): 174. 1981. *Specklinia tamboensis* (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16(4): 259. 2001.

ILLUSTRATION: Luer & Escobar 1981a, p. 175; Luer 2006, f. 87; Karremans & Vieira-Uribe 2020, p. 171, p. 172.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar et al. 1828* (holotype, JAUM).

Andreettaea villosilabia (Luer & Hirtz) A.Doucette, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 8(1): 8. 2022. *Muscarella villosilabia* (Luer & Hirtz) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 122, f. 91. 2006. *Pleurothallis villosilabia* Luer & Hirtz, Selbyana 23(1): 41, f. 30. 2002. *Specklinia villosilabia* (Luer & Hirtz) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 264. 2004.

ILLUSTRATION: Luer 2006, f. 91; Karremans & Vieira-Uribe 2020, p. 172.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer et al. 19622* (holotype, MO).

VOUCHER: A photographic voucher of a Colombian specimen reproduced in Karremans & Vieira-Uribe 2020, p. 172.

Andreettaea zephyrina (Rchb.f.) A.Doucette, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 8(1): 9. 2022. *Humboldtia zephyrina* (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Muscarella zephyrina* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 124–125. 2006. *Pleurothallis zephyrina* Rchb.f., Bonplandia (Hannover) 3: 71. 1855. *Specklinia zephyrina* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 265. 2004. *Trichosalpinx zephyrina* (Rchb.f.) Luer, Phytologia 54(5): 398. 1983. ILLUSTRATION: Luer 1975f, f. 79; Luer 2006, f. 95a, f. 95b, f. 95c; Karremans & Vieira-Uribe 2020, p. 171, p. 172. Fig. 3H.

DISTRIBUTION: BOL COL ECU VEN.

TYPE: Colombia, *Wagner s.n.* [L556] (holotype, W-R-0025666; isotype, K-L).

BARBOSELLA Schltr.

Barbosella cucullata (Lindl.) Schltr., Repert. Spec. Nov. Regni Veg. 15: 261. 1918. *Pleurothallis angustisegmenta* C.Schweinf., Bot. Mus. Leaf. 10: 139. 1942. *Restrepia cucullata* Lindl., Ann. Mag. Nat. Hist. 15: 108. 1845. Non *Pleurothallis cucullata* Ames [1923]. ILLUSTRATION: Luer 2000a, f. 6, f. 7, f. 8 (p. 31); Vásquez & Ibsch 2000, f. 2, pl. 1. Fig. 3I.

DISTRIBUTION: BOL COL ECU PER VEN.

TYPE: Colombia, *Hartweg 1430* (holotype, K; isotypes, G, LD, W).

Barbosella dolichorhiza Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 117. 1920.

ILLUSTRATION: Luer 2000a, f. 9 (p. 32).

DISTRIBUTION: COL COS ECU PAN PER.

TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 41, No. 157)]. Ecuador, *Luer et al. 9726* [neotype, MO (Luer 2000a), here rejected and selected as epitype]. Note: We follow Pupulin *et al.* (2022) in recognizing Schlechter's floral analyses reproduced by Mansfeld as original material and therefore reject Luer's neotype in favor of a lectotype.

Barbosella fuscata Garay, Orquideología 4: 153. 1969. ILLUSTRATION: Luer 2000a, f. 11, f. 12 (p. 32).

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Escobar 417* (holotype, AMES).

Barbosella prorepens (Rchb.f.) Schltr., Repert. Spec. Nov. Regni Veg. 15(427/433): 263. 1918. *Pleurothallis prorepens* (Rchb.f.) Ames, F.T.Hubb. & C.Schweinf., Bot. Mus. Leaf. 3(2): 39–40. 1934. *Restrepia prorepens* Rchb.f., Gard. Chron., n.s. 7(183): 810. 1877.

ILLUSTRATION: Luer 2000a, f. 17, f. 18, f. 19 (p. 34); Stenzel 2007, f. 7.

DISTRIBUTION: BOL COL COS DOM ECU GUA L.A. NIC PAN PER VEN.

TYPE: Costa Rica, *Endrés 2618* (holotype, W).

VOUCHER: Colombia, *Lehmann 3305* (G, K, W).

Barbosella schista Luer & R.Escobar, Orquideología 16(1): 7. 1983.

ILLUSTRATION: Luer & Escobar 1983, p. 9; Luer 2000a, f. 21 (p. 35).

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 7751* (holotype, SEL; isotypes, COL, JAUM).

BRACHIONIDIUM Lindl.

- Brachionidium brachycladum*** Luer & R.Escobar, *Orquideología* 16(3): 33–34. 1986.
ILLUSTRATION: Luer & Escobar 1986, p. 35; Luer 1995, pl. 5.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 8946* (holotype, SEL).
- Brachionidium dorisiae*** Kolan., Rykacz. *Medina Tr. & Szlach.*, *Nordic J. Bot.* 2018: e01546: 3. 2017.
ILLUSTRATION: Kolanowska *et al.* 2017, f. 2, 3.
DISTRIBUTION: *COL.
TYPE: Colombia, *Medina et al. S16/17* (holotype, JAUM-spirit).
- Brachionidium ecuadorensis*** Garay, *Canad. J. Bot.* 34: 731. 1956.
ILLUSTRATION: Luer 1995, pl. 16; Ortiz & Medina 2012, f. 1.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Lehmann 7057* (holotype, NY; isotype, K).
VOUCHER: Colombia, *Delgado-V. 26* (PSO).
- Brachionidium elzbietae*** Kolan., Rykacz. *Medina Tr. & Szlach.*, *Nordic J. Bot.* 2018: e01546: 2. 2017.
ILLUSTRATION: Kolanowska *et al.* 2017, f. 1.
DISTRIBUTION: *COL.
TYPE: Colombia, *Garay 837* (holotype, AMES; isotypes AMES, UGDA).
- Brachionidium escobarii*** Luer, *Lindleyana* 1: 172. 1986.
ILLUSTRATION: Luer 1995, pl. 19.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 3059* (holotype, MO; isotype, SEL).
- Brachionidium filamentosum*** Luer & Hirtz, *Monogr. Syst. Bot. Missouri Bot. Gard.* 57: 50, pl. 20. 1995.
ILLUSTRATION: Luer 1995, pl. 20.
DISTRIBUTION: COL ECU PAN.
TYPE: Ecuador, *Luer et al. 15563* (holotype, MO).
VOUCHER: Colombia, *Hartman 12434* (MO).
- Brachionidium folsomii*** Dressler, *Orquideología* 15(2–3): 154–157. 1982.
ILLUSTRATION: Dressler 1982, p. 155–157; Luer 1995, pl. 21. Fig. 3J.
DISTRIBUTION: COL COS GUA PAN.
TYPE: Panama, *Dressler 6032* (holotype, US; isotype, PMA).
VOUCHER: Colombia, *Vieira 386* (JAUM).
- Brachionidium fornicatum*** Luer & Hirtz, *Monogr. Syst. Bot. Missouri Bot. Gard.* 57: 54–55, pl. 22. 1995.
ILLUSTRATION: Luer 1995, pl. 22.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Hirtz 6030* (holotype, MO).
VOUCHER: Colombia, *Luer et al. 4667* (SEL).
- Brachionidium imperiale*** Luer & R.Escobar, *Monogr. Syst. Bot. Missouri Bot. Gard.* 57: 64–65, pl. 27. 1995.
ILLUSTRATION: Luer 1995, pl. 27.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *De Wilde & Julian 16799* (holotype, MO).
- Brachionidium lehmannii*** Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 57: 72–73, pl. 31. 1995.
ILLUSTRATION: Luer 1995, pl. 31
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Lehmann s.n. [HK316]* (holotype, K-000583667).
VOUCHER: Colombia, *Arias 952* (HUAZ).
- Brachionidium meridense*** Garay, *Canad. J. Bot.* 34: 736. 1956.
ILLUSTRATION: Luer 1995, pl. 35.
DISTRIBUTION: COL VEN.
TYPE: Venezuela, *Renz 7507* (holotype, Herb. Renz).
VOUCHER: Colombia, *Luer et al. 10194* (MO).
- Brachionidium parvum*** Cogn., *Repert. Spec. Nov. Regni Veg.* 6: 307. 1909. *Brachionidium sherringii* var. *parvum* (Cogn.) Stehlé, *Fl. Descript. Antilles Franç.* 1: 219. 1939.
ILLUSTRATION: Luer 1995, pl. 40; Stenzel 2007, f. 8. Fig. 3K.
DISTRIBUTION: COL ECU HAI PUE L.A. VEN.
TYPE: Grenada, *Broadway 268* [lectotype, K, isolectotype, BR (Luer 1995)].
VOUCHER: Colombia, *Vieira 387* (JAUM).
- Brachionidium parvifolium*** (Lindl.) Lindl., *Fol. Orchid. Brachionidium* 1. 1859. *Restrepia parvifolia* Lindl., *Orchid. Linden.* 4. 1846.
ILLUSTRATION: Luer 1995, pl. 39.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Linden 1278* (holotype, K-L-000079979; isotype, BR-0000009972827, W).
- Brachionidium phalangiferum*** Garay, *Canad. J. Bot.* 34: 738, pl. 3. 1956.
ILLUSTRATION: Luer 1995, pl. 42.

DISTRIBUTION: COL VEN.

TYPE: Venezuela, Renz 6007 (holotype, herb. Renz).

VOUCHER: Colombia, *Luer et al.* 7968 (SEL).

Brachionidium puraceense Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 57: 104–105, pl. 47. 1995.

ILLUSTRATION: Luer 1995, pl. 47.

DISTRIBUTION: *COL.

TYPE: Colombia, *Lozano et al.* 4697 (holotype, COL).

Brachionidium tetrapetalum (F.Lehm. & Kraenzl.) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 241. 1920. *Pleurothallis tetrapetala* F.Lehm. & Kraenzl., Bot. Jahrb. Syst. 26: 446. 1899.

ILLUSTRATION: Luer 1995, pl. 57.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Lehmann* 347 (holotype, K-000583666; isotypes, AMES-00271853, BR-0000009894860, W).

Brachionidium tuberculatum Lindl., Fol. Orchid. *Brachionidium* 1. 1859.

ILLUSTRATION: Luer 1995, pl. 58, pl. 59; Vásquez & Ibisch 2000, pl. 6.

DISTRIBUTION: BOL COL ECU VEN.

TYPE: Venezuela, *Schlim* 1558 (holotype, K-L-000079980; isotype, G-00168549, LD, MPU-017566, W).

VOUCHER: Colombia, *Ospina Hernández* 79 (AMES, COL).

DIODONOPSIS Pridgeon & M.W.Chase

Diodonopsis anachaeta (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16(4): 253. 2001. *Masdevallia anachaeta* Rchb.f., Otia Bot. Hamburg. 1: 17. 1878.

ILLUSTRATION: Luer 2000c, pl. 217, pl. 218; Vásquez & Ibisch 2000, f. 25, pl. 58. Fig. 3L.

DISTRIBUTION: BOL COL ECU PER.

TYPE: Ecuador, *Lehmann* XXXII (holotype, W-R-50752).

VOUCHER: Colombia, *Luer & Escobar* 7942 (SEL).

Diodonopsis erinacea (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16(4): 253. 2001.

Masdevallia erinacea Rchb.f., Linnaea 41: 11–12. 1877. *Scaphosepalum erinaceum* (Rchb.f.) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 219. 1920.

ILLUSTRATION: Luer 2000c, pl. 226, pl. 227.

DISTRIBUTION: COL COS ECU PAN.

TYPE: Colombia, *Roehl s.n.* (holotype, W-R-50791).

Diodonopsis pygmaea (Kraenzl.) Pridgeon & M.W.Chase, Lindleyana 16(4): 253. 2001.

Masdevallia pygmaea Kraenzl., Repert. Spec. Nov. Regni Veg. Beih. 34: 92. 1925.

ILLUSTRATION: Luer 2000c, pl. 242.

DISTRIBUTION: COL COS ECU.

TYPE: Costa Rica, *Endres* 289 ([lectotype (selected here), W-R-41429; isolectotypes, W-R-14514, W-R-14536; type illustr., W-R-38559, left]).

VOUCHER: Colombia, *Lehmann* 2734 (K, G).

Diodonopsis ramiromedinae Thoele, Lankesteriana 17(2): 223. 2017.

ILLUSTRATION: Thoele & Medina Trejo 2017, f. 1, 2.

DISTRIBUTION: *COL.

TYPE: Colombia, *Medina* 98 (holotype, JAUM).

DRACONANTHES (Luer) Luer

Draconanthes aberrans (Schltr.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 61(1): 3. 1996.

Lepanthes aberrans Schltr., Repert. Spec. Nov. Regni Veg. 14: 125. 1915.

ILLUSTRATION: Luer 1996b, f. 1, f. 2, f. 3; Vásquez & Ibisch 2000, pl. 9; Mansfeld 1929, pl. 34 (n. 130); Kolanowska *et al.* 2020, f. 1–9. Fig. 4A.

DISTRIBUTION: BOL COL COS ECU PER VEN.

TYPE: Ecuador, *Sodiño* 21 (holotype, B, destroyed). Ecuador, *Hirtz* 1056 [MO, neotype (Luer 1996b); SEL, isoneotype].

VOUCHER: Colombia, *Luer et al.* 12520 (MO).

DRACULA Luer

Dracula adrianae Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 72: 103. 1998.

ILLUSTRATION: Luer 1998b, pl. 122 (p. 105).

DISTRIBUTION: *COL.

TYPE: Colombia, *Sijm* 20898 (holotype, MO).

Dracula alcithoë Luer & R.Escobar, Orquideología 15: 3. 1981.

ILLUSTRATION: Luer & Escobar 1981b, p. 4, p. 5; Luer 1993, pl. 1.

DISTRIBUTION: COL ECU.

- TYPE: Colombia, *Ospina s.n.* (holotype, JAUM; isotype, SEL).
- Dracula amaliae*** Luer & R.Escobar, *Orquideología* 13: 5. 1978.
ILLUSTRATION: Luer & Escobar 1978, p. 6, p. 7, p. 58 (bottom right); Luer 1993, pl. 2.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 1746* (holotype, JAUM).
- Dracula andreettae*** (Luer) Luer, *Selbyana* 2(2–3): 193. 1978. *Masdevallia andreettae* Luer, *Phytologia* 39: 186–187. 1978.
ILLUSTRATION: Luer 1993, pl. 3. Fig. 4B.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer 1687* (holotype, SEL).
VOUCHER: Colombia, *Escobar 1926* (JAUM).
- Dracula anicula*** Luer & R.Escobar, *Orquideología* 15: 6. 1981.
ILLUSTRATION: Luer & Escobar 1981b, p. 7–9; Luer 1993, pl. 4.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 1279* (holotype, JAUM; isotype, SEL).
- Dracula anthracina*** Luer & R.Escobar, *Selbyana* 7: 64. 1982.
ILLUSTRATION: Luer 1993, pl. 5.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 3457* (holotype, SEL; isotype, JAUM).
- Dracula antonii*** Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 88: 98. 2002.
ILLUSTRATION: Luer 2002a, f. 2 (p. 115).
DISTRIBUTION: *COL.
TYPE: Colombia, *Sijm s.n.* (holotype, MO).
- Dracula aphrodes*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 58: 1002. 1989.
ILLUSTRATION: Luer 1993, pl. 6.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 3978* (holotype, JAUM; isotype, MO).
- Dracula bella*** (Rchb.f.) Luer, *Selbyana* 2: 194. 1978. *Masdevallia bella* Rchb.f., *Gard. Chron.* 1: 725. 1878.
ILLUSTRATION: Luer 1993, pl. 3.
DISTRIBUTION: *COL.
TYPE: Colombia, *Wallis 218* (holotype, W).
- Dracula bellerophon*** Luer & R.Escobar, *Orquideología* 13: 9. 1978.
ILLUSTRATION: Luer & Escobar 1978, p. 10, p. 11, p. 63 (top); Luer 1993, pl. 9.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 2894* (holotype, JAUM; isotype, SEL).
- Dracula benedictii*** (Rchb.f.) Luer, *Selbyana* 2: 194. 1978. *Masdevallia benedictii* Rchb.f., *Xenia Orchid.* 2: 197. 1874.
ILLUSTRATION: Luer 1993, pl. 10.
DISTRIBUTION: *COL.
TYPE: Colombia, *Roezl s.n.* (holotype, W).
- Dracula berthae*** Luer & R.Escobar, *Orquideología* 13: 115. 1979.
ILLUSTRATION: Luer & Escobar 1979, p. 116, p. 117, p. 167 (bottom right); Luer 1993, pl. 11.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 1817* (holotype, JAUM).
- Dracula brangeri*** Luer, *Orchideeën* 48: 47. 1986.
ILLUSTRATION: Luer 1993, pl. 12.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 11430* (holotype, MO).
- Dracula callithrix*** N.Peláez, *Buitr.-Delg. & Gary Mey.*, *Orquideología* 26(1): 38. 2009.
ILLUSTRATION: Peláez *et al.* 2009, f. 8 (p. 39), f. 7 (p. 40).
DISTRIBUTION: *COL.
TYPE: Colombia, *Peláez NP0283* (holotype, JAUM-44187).
Note: *Peláez NP0284* cited as isotype is a paratype.
- Dracula carcinopsis*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 58(10): 1003–1004. 1989.
ILLUSTRATION: Luer 1993, pl. 13.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 4004* (holotype, JAUM; isotype, MO).
- Dracula chestertonii*** (Rchb.f.) Luer, *Selbyana* 2: 194. 1978. *Masdevallia chestertonii* Rchb.f., *Gard. Chron.* 1: 532. 1883.
ILLUSTRATION: Luer & Escobar 1978, p. 61(top right); Luer 1993, pl. 14.
DISTRIBUTION: *COL.
TYPE: Colombia, *Chesterton s.n.* (holotype, W).
- Dracula chimaera*** (Rchb.f.) Luer, *Selbyana* 2: 194. 1978. *Masdevallia chimaera* Rchb.f., *Gard. Chron.* 463. 1872.
ILLUSTRATION: Luer 1993, pl. 15.
DISTRIBUTION: *COL.
TYPE: Colombia, *Roezl s.n.* (holotype, W).

- Dracula chiroptera*** Luer & Malo, *Selbyana* 2: 367. 1978.
ILLUSTRATION: Luer 1993, pl. 16.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer 1759* (holotype, SEL).
VOUCHER: Colombia, *Luer 6028* (SEL).
- Dracula circe*** Luer & R.Escobar, *Orquideología* 15: 11. 1981.
ILLUSTRATION: Luer & Escobar 1981b, p. 11–13; Luer 1993, pl. 17.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 1883* (holotype, JAUM; isotype, SEL).
- Dracula citrina*** Luer & R.Escobar, *Selbyana* 7: 64. 1982.
ILLUSTRATION: Luer 1993, pl. 18.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 6545* (holotype, SEL; isotype, JAUM).
- Dracula cochliops*** Luer & R.Escobar, *Orquideología* 13: 119. 1979.
ILLUSTRATION: Luer & Escobar 1979, p. 121; Luer 1993, pl. 19. Fig. 4C.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 2011* (holotype, JAUM).
Note: The holotype is *Escobar 2011* according to the protologue, but Luer (1993) cites *Luer et al. 3127* (holotype, JAUM; isotype, SEL) as type, which is the number of his illustration based on that specimen.
- Dracula cutis-bufonis*** Luer & R.Escobar, *Orquideología* 13: 13. 1978.
ILLUSTRATION: Luer & Escobar 1978, p. 14, p. 15, p. 61(top left); Luer 1993, pl. 21.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar et al. 1377* (holotype, JAUM).
- Dracula decussata*** Luer & R.Escobar, *Orquideología* 13: 18. 1978.
ILLUSTRATION: Luer & Escobar 1978, p. 20, p. 21, p. 62(top); Luer 1993, pl. 24; Luer 1996d, p. 11.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 1818* (holotype, JAUM).
- Dracula dens-canis*** N.Peláez, *Orchid Rev.* 114: 344. 2006.
ILLUSTRATION: Peláez 2006, p. 344–347.
DISTRIBUTION: COL
TYPE: Colombia, *Peláez NP0058* (holotype, HUA-145622; isotypes, JAUM-038840; HUA-145623)
- Dracula diabola*** Luer & R.Escobar, *Orquideología* 13: 124. 1979.
ILLUSTRATION: Luer & Escobar 1979, p. 126, p. 127, p. 167(top); Luer 1993, pl. 26.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 1864* (holotype, JAUM).
- Dracula diana*** Luer & R.Escobar, *Orquideología* 15: 15. 1981.
ILLUSTRATION: Luer & Escobar 1981b, p. 15–17; Luer 1993, pl. 27.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 1882* (holotype, JAUM; isotype, SEL).
- Dracula exasperata*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 58(10): 1005. 1989.
ILLUSTRATION: Luer 1993, pl. 30.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 13185* (holotype, JAUM, not found; isotype, MO).
- Dracula felix*** (Luer) Luer, *Selbyana* 2(2,3): 195. 1978.
Masdevallia felix Luer, *Phytologia* 39: 201. 1978.
ILLUSTRATION: Luer 1993, pl. 32.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Luer 2285* (holotype, SEL; isotype, JAUM).
- Dracula gerhardii*** Luer & Sijm, *Harvard Pap. Bot.* 16(2): 324, 17. 2011.
ILLUSTRATION: Luer 2011, f. 17.
DISTRIBUTION: *COL.
TYPE: Colombia, *Sijm 291122* (holotype, MO).
- Dracula gigas*** (Luer) Luer, *Selbyana* 2(2,3): 195. 1978. *Masdevallia gigas* Luer, *Phytologia* 39: 204–205). 1978.
ILLUSTRATION: Luer 1993, pl. 35
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer 1690* (holotype, SEL).
VOUCHER: Colombia, *Luer 13011A* (MO).
- Dracula gorgona*** (H.J.Veitch) Luer & R.Escobar, *Selbyana* 2: 195. 1978. *Masdevallia chimaera* var. *gorgona* H.J.Veitch, *Man. Orchid. Pl.* 5: 31. 1889.
ILLUSTRATION: Luer & Escobar 1978, p. 24, p. 25, p. 63(bottom right); Luer 1993, pl. 36.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 13162* (neotype, MO).
- Dracula gorgonella*** Luer & R.Escobar, *Orquideología* 15: 19. 1981.
ILLUSTRATION: Luer & Escobar 1981b, p. 19–21; Luer 1993, pl. 37.
DISTRIBUTION: *COL.

- TYPE: Colombia, *Escobar 1824* (holotype, JAUM).
 Note: The holotype is *Escobar 1824* according to the protologue, but Luer (1993) indicates that the type is *Escobar 1975* (holotype, JAUM).
- Dracula hirtzii*** Luer, *Orchid Digest* 43(1): 38. 1979.
 ILLUSTRATION: Luer 1993, pl. 40.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer, 2596* (holotype, SEL).
 VOUCHER: Colombia, *Luer 12513* (MO).
- Dracula houtteana*** (Rchb.f.) Luer, *Selbyana* 2: 195. 1978. *Masdevallia houtteana* Rchb.f., *Gard. Chron.* 2: 98. 1874.
 ILLUSTRATION: Luer 1993, pl. 41.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Wallis 314* (holotype, W).
- Dracula inaequalis*** (Rchb.f.) Luer & R.Escobar, *Selbyana* 7: 65. 1982. *Masdevallia inaequalis* Rchb.f., *Gard. Chron.* 1: 372. 1874.
 ILLUSTRATION: Luer 1993, pl. 42.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Williams s.n.* (holotype, W).
- Dracula incognita*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 58(10): 1006–1007. 1989.
 ILLUSTRATION: Luer 1993, pl. 43.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 4008* (holotype, JAUM, not found; isotype, MO).
- Dracula insolita*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 58: 1007. 1989.
 ILLUSTRATION: Luer 1993, pl. 44.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 3992* (holotype, JAUM, not found; isotype, MO).
- Dracula irmelinae*** N.Peláez, Gary Mey. & L.Mazariegos, *Lankesteriana* 20(2): 138. 2020.
 ILLUSTRATION: Peláez *et al.* 2020, f. 1–4, f. 5A–C. Fig. 4D.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *JDF-078* (holotype, JAUM).
- Dracula lehmanniana*** Luer & R.Escobar, *Selbyana* 7(1): 66. 1982.
 ILLUSTRATION: Luer 1993, pl. 48.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 2982* (holotype, SEL).
- Dracula lemurella*** Luer & R.Escobar, *Orquideología* 15: 23. 1981.
 ILLUSTRATION: Luer & Escobar 1981b, p. 23–25;
 Luer 1993, pl. 49; Gil & Vieira-Urbe 2019, f. 26.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 1540* (holotype, JAUM; isotype, SEL).
- Dracula levii*** Luer, *Selbyana* 2(4): 369. 1978.
 ILLUSTRATION: Luer 1993, pl. 50.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer 3455* (holotype, SEL).
 VOUCHER: Colombia, *Escobar s.n.* (JAUM).
- Dracula ligiae*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 58: 1008. 1989.
 ILLUSTRATION: Luer 1993, pl. 51.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 3979* (holotype, JAUM, not found; isotype, MO).
- Dracula mantissa*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 48(7): 709. 1979.
 ILLUSTRATION: Luer 1993, pl. 54.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer 3966* (holotype, SEL; isotype, JAUM).
 VOUCHER: Colombia, *Escobar 1946* (JAUM).
- Dracula minax*** Luer & R.Escobar, *Orquideología* 15: 27. 1981.
 ILLUSTRATION: Luer & Escobar 1981b, p. 28–30; Luer 1993, pl. 56.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 682* (holotype, JAUM; isotype, SEL).
- Dracula niesseniae*** P.Ortiz, *Orquideología* 19(3): 3–4. 1994.
 ILLUSTRATION: Ortiz 1994, p. 5, p. 7 (bottom); Luer 1996d, p. 12; Luer 1994, pl. 108.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Ortiz 1059* (holotype, HPUJ; isotype, MO).
- Dracula nosferatu*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 58(10): 1009–1010. 1989.
 ILLUSTRATION: Luer 1993, pl. 60.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 3977* [Luer ill. 13013] (holotype, JAUM; isotypes, K-000815825, MO-149020)
- Dracula nycterina*** (Rchb.f.) Luer, *Selbyana* 2: 196. 1978. *Masdevallia chimaera* André, *Ill. Hort.* 20: 25, t. 117, 118. 1873, *nom. illeg.* *Masdevallia nycterina* Rchb.f., *Gard. Chron.* 1238. 1873. Non

Masdevallia chimaera Rchb.f. [1872].

ILLUSTRATION: Luer 1993, pl. 61.

DISTRIBUTION: *COL.

TYPE: Colombia, *Wallis s.n.* (holotype, W).

Dracula octavioi Luer & R.Escobar, *Orquideología* 13: 128. 1979.

ILLUSTRATION: Luer & Escobar 1979, p. 131; Luer 1993, pl. 62.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 2001* (holotype, JAUM).

Note: The protologue indicates an isotype at SEL, but apparently that bears a different collection number (*Luer 3092*) and therefore would be a paratype.

Dracula ophioceps Luer & R.Escobar, *Orquideología* 13(1): 26. 1978.

ILLUSTRATION: Luer & Escobar 1978, p. 28, p. 29, p. 58(top right); Luer 1993, pl. 63.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 1298* (holotype, JAUM).

Dracula orientalis Luer & R.Escobar, *Selbyana* 7: 67. 1982.

ILLUSTRATION: Escobar 1983, p. 88; Luer 1993, pl. 64.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar & Portillo 7935* (holotype, SEL; isotype, COL).

Dracula ortiziana Luer & R.Escobar, *Orquideología* 19(1): 40. 1993.

ILLUSTRATION: Luer & Escobar 1993b, p. 41, p. 42; Luer 1993, pl. 65.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 4085* (holotype, JAUM, not found; isotype, MO).

Dracula pholeodytes Luer & R.Escobar, *Selbyana* 7: 68. 1982.

ILLUSTRATION: Luer 1993, pl. 67.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 1979* (holotype, SEL, isotype, JAUM, not found).

Dracula pileus Luer & R.Escobar, *Orquideología* 13: 132. 1979.

ILLUSTRATION: Luer & Escobar 1979, p. 134, p. 135, p. 170 (bottom right); Luer 1993, pl. 68.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 1880* (holotype, JAUM).

Note: The protologue indicates an isotype at SEL, but apparently that bears a different collection

number (*Luer 2930*) and therefore would be a paratype.

Dracula posadarum Luer & R.Escobar, *Orquideología* 15: 31. 1981.

ILLUSTRATION: Luer & Escobar 1981b, p. 32–34; Luer 1993, pl. 72.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 1904* (holotype, JAUM; isotype, SEL).

Dracula presbys Luer & R.Escobar, *Monogr. Syst. Bot. Missouri Bot. Gard.* 46: 172. 1993.

ILLUSTRATION: Luer 1993, pl. 73.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 14092* (holotype, MO).

Dracula psittacina (Rchb.f.) Luer & R.Escobar, *Thes. Dracul.* 6: 10. 1993. *Masdevallia psittacina* Rchb.f., *Gard. Chron.*, n.s. 5: 817. 1876.

ILLUSTRATION: Luer 1993, pl. 74.

DISTRIBUTION: *COL.

TYPE: Colombia, *Lawrence s.n.* (holotype, W).

Dracula* × *radio-syndactyla Luer, *Selbyana* 5: 389. 1981.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 6314* (holotype, SEL).

Note: A putative hybrid between *D. radiosa* and *D. syndactyla*.

Dracula radiosa (Rchb.f.) Luer, *Selbyana* 2: 197. 1978. *Masdevallia radiosa* Rchb.f., *Gard. Chron.* 1: 684. 1877.

ILLUSTRATION: Luer 1993, pl. 79.

DISTRIBUTION: *COL.

TYPE: Colombia, *Wallis 652* (holotype, W).

Dracula rojasii N.Peláez, Buitr.-Delg. & Gary Mey., *Orquideología* 26(1): 25. 2009.

ILLUSTRATION: Peláez *et al.* 2009, f. 1, f. 2.

DISTRIBUTION: *COL.

TYPE: Colombia, *Peláez NP0285* (holotype, JAUM).

Note: Peláez NP0286 cited as isotype is a paratype.

Dracula robledorum (P.Ortiz) Luer & R.Escobar, *Selbyana* 2: 197. 1978. *Masdevallia chimaera* var. *robledorum* P.Ortiz, *Orquideología* 10: 222. 1975.

ILLUSTRATION: Luer & Escobar 1978, p. 32, p. 33, p. 63 (bottom left); Luer 1993, pl. 82.

DISTRIBUTION: *COL.

TYPE: Colombia, *Ortiz V 715* (holotype, COL; isotype, HPUJ).

- Dracula roezlii*** (Rchb.f.) Luer, *Selbyana* 2: 197. 1978. *Masdevallia chimaera* var. *roezlii* (Rchb.f.) H.J. Veitch, *Man. Orchid. Pl.* 5: 31. 1889. *Masdevallia roezlii* Rchb.f., *Xenia Orchid.* 2: 196, t. 186, II. 1874. ILLUSTRATION: Luer 1993, pl. 83. DISTRIBUTION: *COL. TYPE: Colombia, *Roezl s.n.* (holotype, W).
- Dracula senex-furens*** N.Peláez, Buitr.-Delg. & Gary Mey., *Orquideología* 26(1): 30. 2009. ILLUSTRATION: Peláez *et al.* 2009, f. 3–5, f. 6 (right). DISTRIBUTION: *COL. TYPE: Colombia, *Peláez NP0287* (holotype, JAUM-44183). Note: Peláez NP0288 cited as isotype is a paratype.
- Dracula sergioi*** Luer & R.Escobar, *Orquideología* 13: 35. 1978. ILLUSTRATION: Luer & Escobar 1978, p. 36, p. 37, p. 58 (top left); Luer 1993, pl. 84. DISTRIBUTION: *COL. TYPE: Colombia, *Escobar 1402* (holotype, JAUM).
- Dracula severa*** (Rchb.f.) Luer, *Selbyana* 2: 197. 1978. *Masdevallia chimaera* var. *severa* (Rchb.f.) H.J. Veitch, *Man. Orchid. Pl.* 5: 31. 1889. *Masdevallia severa* Rchb.f., *Gard. Chron.* 1: 170. 1875. ILLUSTRATION: Luer 1993, pl. 85. DISTRIBUTION: *COL. TYPE: Colombia, *Patin 10* (holotype, W).
- Dracula sibundoyensis*** Luer & R.Escobar, *Orquideología* 13: 137. 1979. ILLUSTRATION: Luer & Escobar 1979, p. 139; Luer 1993, pl. 86. DISTRIBUTION: *COL. TYPE: Colombia, *Escobar 2002* (holotype, JAUM). Note: The protologue indicates an isotype at SEL, but apparently that bears a different collection number (*Luer 3091*) and therefore would be a paratype.
- Dracula spectrum*** (Rchb.f.) A.Doucette, *Phytotaxa* 57: 59. 2012. *Masdevallia spectrum* Rchb.f., *Gard. Chron.* 1: 429. 1875. ILLUSTRATION: Williams & Williams 1894, p. 496; Luer 1993, pl. 68. DISTRIBUTION: *COL. TYPE: Colombia, *Shuttleworth s.n.* (holotype, W).
- Dracula syndactyla*** Luer, *Selbyana* 5(3–4) 389. 1981. ILLUSTRATION: Luer 1993, pl. 89. DISTRIBUTION: *COL. TYPE: Colombia, *Luer 6313* (holotype, SEL).
- Dracula trichroma*** (Schltr.) Hermans, *Orchid Rev.* 105(1217): 298. 1997. *Masdevallia trichroma* Schltr., *Repert. Spec. Nov. Regni Veg.* 6: 57. 1919. *Masdevallia tricolor* Rchb.f., *Gard. Chron. n.s.*, 18: 102. 1882, *nom. illeg.* *Dracula tricolor* (Rchb.f.) Luer & R.Escobar, *Selbyana* 7: 65. 1982, *nom. illeg.* Non *Masdevallia tricolor* Rchb.f. [1850]. ILLUSTRATION: Luer 1993, pl. 45. Fig. 4E. DISTRIBUTION: COL ECU. TYPE: Colombia, *Roezl s.n.* (holotype, W). Note: For a clarification of the use of *Dracula trichroma* for what has been mistakenly named *Dracula iricolor* see Karremans *et al.* (2019).
- Dracula tsubotae*** Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 88: 102. 2002. ILLUSTRATION: Luer 2002a, f. 8 (p. 116). DISTRIBUTION: *COL. TYPE: Colombia, *Barrow RO8* (holotype, MO).
- Dracula veleziiana*** Luer & V.N.M.Rao, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 276. 2005. ILLUSTRATION: Luer 2005, f. 3 (p. 280). DISTRIBUTION: *COL. TYPE: Colombia, *Rao 171* (holotype, MO).
- Dracula velutina*** (Rchb.f.) Luer, *Selbyana* 2: 198. 1978. *Masdevallia velutina* Rchb.f., *Gard. Chron.* 2: 420. 1875. ILLUSTRATION: Luer 1993, pl. 94. DISTRIBUTION: *COL. TYPE: Colombia, *Wallis s.n.* (holotype, W).
- Dracula venefica*** Luer & R.Escobar, *Orquideología* 15: 39. 1981. ILLUSTRATION: Luer & Escobar 1981b, p. 40–42; Luer 1993, pl. 95. DISTRIBUTION: *COL. TYPE: Colombia, *Escobar 1903* (holotype, JAUM; isotype, SEL).
- Dracula venosa*** (Rolfe) Luer, *Selbyana* 2: 198. 1978. *Masdevallia venosa* Rolfe, *Bull. Misc. Inform. Kew* 146. 1901. ILLUSTRATION: Luer 1993, pl. 96. DISTRIBUTION: COL ECU. TYPE: Colombia, *Sander s.n.* (holotype, K).
- Dracula verticulosa*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 58(10): 1010–1011. 1989. ILLUSTRATION: Luer 1993, pl. 97; Peláez *et al.* 2020, f. 5D–F. DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 4000* (holotype, JAUM, not found; isotype, MO).

Dracula vespertilio (Rchb.f.) Luer, Selbyana 2(2–3): 198. 1978. *Masdevallia vespertilio* Rchb.f., Bot. Zeitung (Berlin) 31(25): 390–391. 1873.

ILLUSTRATION: Luer 1993, pl. 98.

DISTRIBUTION: COL COS NIC.

TYPE: Colombia, *Wallis s.n.* [lectotype (selected here), W-R-0039187].

Dracula villegasii Königler, Arcula 8: 218. 1999.

ILLUSTRATION: Königler 1999, p. 219.

DISTRIBUTION: *COL.

TYPE: Colombia, *Königler WK-91* (holotype, M; isotypes, K, JAUM, Herb. Königler).

Dracula vinacea Luer & R.Escobar, Orquideología 13: 39. 1978.

ILLUSTRATION: Luer & Escobar 1978, p. 40, p. 41, p. 58 (bottom left); Luer 1993, pl. 99. Fig. 4F.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 968* (holotype, JAUM; isotype, SEL).

Dracula vlad-tepes Luer & R.Escobar, Orquideología 15: 43. 1981.

ILLUSTRATION: Luer & Escobar 1981b, p. 44–47; Luer 1993, pl. 100.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 2180* (holotype, JAUM; isotype, SEL).

Dracula wallisii (Rchb.f.) Luer, Selbyana 2: 198. 1979. *Masdevallia chimaera* var. *wallisii* (Rchb.f.) H.J.Veitch, Man. Orchid. Pl. 5: 31. 1889. *Masdevallia wallisii* Rchb.f., Gard. Chron. 2: 258. 1875.

ILLUSTRATION: Luer 1993, pl. 101.

DISTRIBUTION: *COL.

TYPE: Colombia, *Wallis s.n.* (holotype, W).

Dracula xenos Luer & R.Escobar, Amer. Orchid Soc. Bull. 58: 1011. 1989.

ILLUSTRATION: Luer 1993, pl. 103.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 13012* (holotype, MO).

DRYADELLA Luer

Dresslerella hispida (L.O.Williams) Luer, Selbyana 3(1): 4–6, f. 105. 1976. *Pleurothallis hispida* L.O.Williams, Ann. Missouri Bot. Gard. 27(3): 277–278, t. 33, f. 1–4. 1940.

ILLUSTRATION: Luer 1988, pl. 4 (p. 11). Fig. 4G.

DISTRIBUTION: COL COS NIC PAN.

TYPE: Panama, *Allen 782* (holotype, AMES).

VOUCHER: Colombia, *Luer 2662* (SEL).

Dresslerella stellaris Luer & R.Escobar, Selbyana 2(2–3): 188, f. 305. 1978.

ILLUSTRATION: Luer 1988, pl. 8 (p. 19).

DISTRIBUTION: COL COS.

TYPE: Colombia, *Luer 2261* (holotype, JAUM; isotype, SEL).

DRYADELLA Luer

Dryadella crassicaudata Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 14, f. 9. 2005.

ILLUSTRATION: Luer 2005, f. 9.

DISTRIBUTION: COL PER.

TYPE: Peru, *Luer 11650* (holotype, MO).

VOUCHER: Colombia, *Luer 6519* (SEL).

Dryadella cristata Luer & R.Escobar, Orquideología 15: 126. 1982.

ILLUSTRATION: Luer & Escobar 1982, p. 126, p. 127; Luer 2005, f. 11.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 1981* (holotype, JAUM; isotype, SEL).

Dryadella cuspidata Luer & Hirtz, Monogr. Syst. Bot. Missouri Bot. Gard. 76: 160–161. 1999.

ILLUSTRATION: Luer 2005, f. 12.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer et al. 13977* (holotype, MO).

VOUCHER: Colombia, *Luer 2957* (SEL).

Dryadella dodsonii Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 76: 161–162. 1999.

ILLUSTRATION: Luer 2005, f. 13.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Dodson 18798* (holotype, MO).

VOUCHER: Colombia, *Otero & Angulo 1003* (CUVC, MO).

Dryadella gnoma (Luer) Luer, Selbyana 2(2–3): 208. 1978. *Pleurothallis gnoma* Luer, Selbyana 3(1–2): 110. 1976.

ILLUSTRATION: Luer & Escobar 1979, p. 142, p. 143, p. 169 (bottom); Luer 2005, f. 19a, f. 19b.

DISTRIBUTION: COL COS ECU PAN PER.

TYPE: Ecuador, *Luer et al. 698* (holotype, SEL).

VOUCHER: Colombia, *Escobar 1451* (JAUM).

- Dryadella guatemalensis*** (Schltr.) Luer, Selbyana 2(2–3): 208. 1978. *Masdevallia guatemalensis* Schltr., Repert. Spec. Nov. Regni Veg. 15(427/433): 201. 1918. *Masdevallia simula* var. *guatemalensis* (Schltr.) Kraenzl., Repert. Spec. Nov. Regni Veg. 34: 191. 1925.
ILLUSTRATION: Luer 2005, f. 22; Karremans *et al.* 2016, f. 8k.
DISTRIBUTION: BRA COL COS GUA MEX.
TYPE: Guatemala, von Tuerkheim II 490 ‘Aug. 1903’ (holotype, B, destroyed. Guatemala, von Tuerkheim II 490 ‘Sept. 1906’ [neotype (selected here), W-R-0012244].
VOUCHER: Colombia, Luer 1873 (SEL).
Note: Luer (2005) suggested the holotype of this taxon was at W-R, with isotypes at AMES, BR and G. These specimens indeed represent this taxon and have the same collection number, but all have different preparation dates. The actual holotype was destroyed at B and strictly speaking BR-0000009973565, AMES-00101256, G-00168643 and W-R-0012244 are not isotypes and cannot be used as lectotypes. The latter is selected as neotype.
- Dryadella meiracyllium*** (Rchb.f.) Luer, Selbyana 2: 209. 1978. *Masdevallia meiracyllium* Rchb.f., Flora 69: 558. 1886.
ILLUSTRATION: Luer 2005, f. 29.
DISTRIBUTION: COL ECU.
TYPE: Colombia, Lehmann 3367 (holotype, W).
- Dryadella minuscula*** Luer & R.Escobar, Orquideología 13: 43. 1978.
ILLUSTRATION: Luer & Escobar 1978, p. 44, p. 45, p. 60 (bottom); Luer 2005, f. 30.
DISTRIBUTION: *COL.
TYPE: Colombia, Escobar 1516 (holotype, JAUM).
- Dryadella mocoana*** Luer & R.Escobar, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 28, f. 31. 2005.
ILLUSTRATION: Luer 2005, f. 31; Jiménez *et al.* 2021b, f. 1.
DISTRIBUTION: COL ECU.
TYPE: Colombia, Luer 2957 (holotype, SEL).
- Dryadella odontostele*** Luer, Lindleyana 11(2): 54, f. 1. 1996.
ILLUSTRATION: Luer 2005, f. 34.
DISTRIBUTION: COL COS PAN.
TYPE: Panama, Gentry 6178 (holotype, MO).
VOUCHER: Colombia, Luer 1874 (SEL).
- Dryadella pusiola*** (Rchb.f.) Luer, Selbyana 2(2/3): 209. 1978. *Masdevallia pusiola* Rchb.f., Gard. Chron. 1: 140. 1887.
ILLUSTRATION: Luer 2005, f. 36.
DISTRIBUTION: COL ECU.
TYPE: Colombia, Wendland 85 (holotype, W).
- Dryadella rodrigoii*** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 76: 163–164. 1999.
ILLUSTRATION: Luer 2005, f. 37.
DISTRIBUTION: *COL.
TYPE: Colombia, Luer 1920 (holotype, SEL).
- Dryadella simula*** (Rchb.f.) Luer, Selbyana 2: 209. 1978. *Masdevallia simula* Rchb.f., Gard. Chron. n.s., 3: 8. 1875.
ILLUSTRATION: Luer 2005, f. 38a, f. 38b.
DISTRIBUTION: COL ECU PER.
TYPE: Colombia, Chesterton sub Veitch 342 (holotype, W-R-0050982; illustr., W-R-0050981).
- Dryadella verrucosa*** Luer & R.Escobar, Monogr. Syst. Bot. Missouri Bot. Gard. 76: 164. 1999.
ILLUSTRATION: Luer 2005, f. 45. Fig. 4H.
DISTRIBUTION: *COL.
TYPE: Colombia, Luer *et al.* 10091 (holotype, MO).
- Dryadella zebrina*** (Porsch) Luer, Selbyana 2: 209. 1978. *Masdevallia zebrina* Porsch, Oesterr. Bot. Z. 154. 1905.
ILLUSTRATION: Luer 2005, f. 49a, f. 49b, f. 49c.
DISTRIBUTION: BOL BRA COL PER.
TYPE: Brazil, von Wettstein & Schiffner s.n. [holotype, B, destroyed; lectotype (selected here), WU-0074776; isolectotype, WU-0074777].
VOUCHER: Colombia, Ortiz s.n. (SEL).

ECHINOSEPALA Pridgeon & M.W.Chase

- Echinosepala aspicensis*** (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 17(2): 101. 2002. *Brenesia aspicensis* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 255. 2004. *Echinella aspicensis* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16(4): 253. 2001. *Humboldtia aspicensis* (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Myoxanthus aspicensis* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 15: 38. 1986. *Pleurothallis aspicensis* Rchb.f., Bonplandia (Hannover) 3: 73. 1855.
ILLUSTRATION: Luer 1992, pl. 45.
DISTRIBUTION: BOL BRA COL ECU GUY PAN VEN.



FIGURE 3. **A.** *Acianthera polystachya*. **B.** *A. villahermosae*. **C.** *Anathallis herpethophyton*. **D.** *Andinia auriculipetala*. **E.** *A. ciliaris*. **F.** *A. hernandoi*. **G.** *A. lupula*. **H.** *Andreettaea zephyryna*. **I.** *Barbosella cucullata*. **J.** *Brachionidium folsomii*. **K.** *B. parvum*. **L.** *Diodonopsis anachaeta*. Photographs by S. Vieira-Uribe except S. Moreno (C) and K. Gil-Amaya (I).

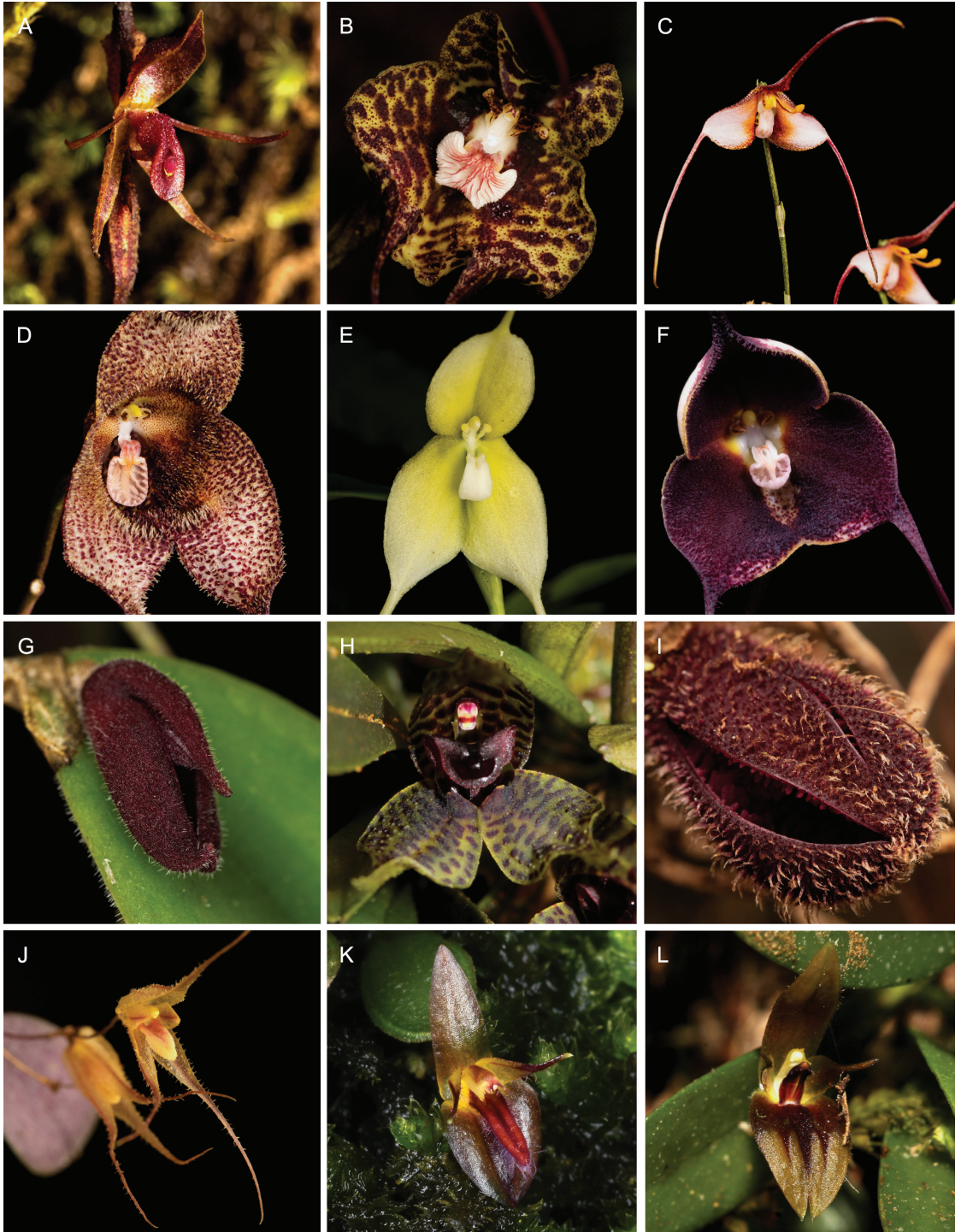


FIGURE 4. **A.** *Draconanthes aberrans*. **B.** *Dracula andreettae*. **C.** *D. cochliops*. **D.** *D. irmelinae*. **E.** *D. trichroma*. **F.** *D. vinacea*. **G.** *Dresslerella hispida*. **H.** *Dryadella verrucosa*. **I.** *Echinosepala lappiformis*. **J.** *Gravendeelia chamaelepanthes*. **K.** *Lankesteriana barbulata*. **L.** *L. caudatipetala*. Photographs by S. Vieira-Uribe (A–E, I, J), S. Moreno (F), N. Gutiérrez (H, L) and S. Mesa (G, K).

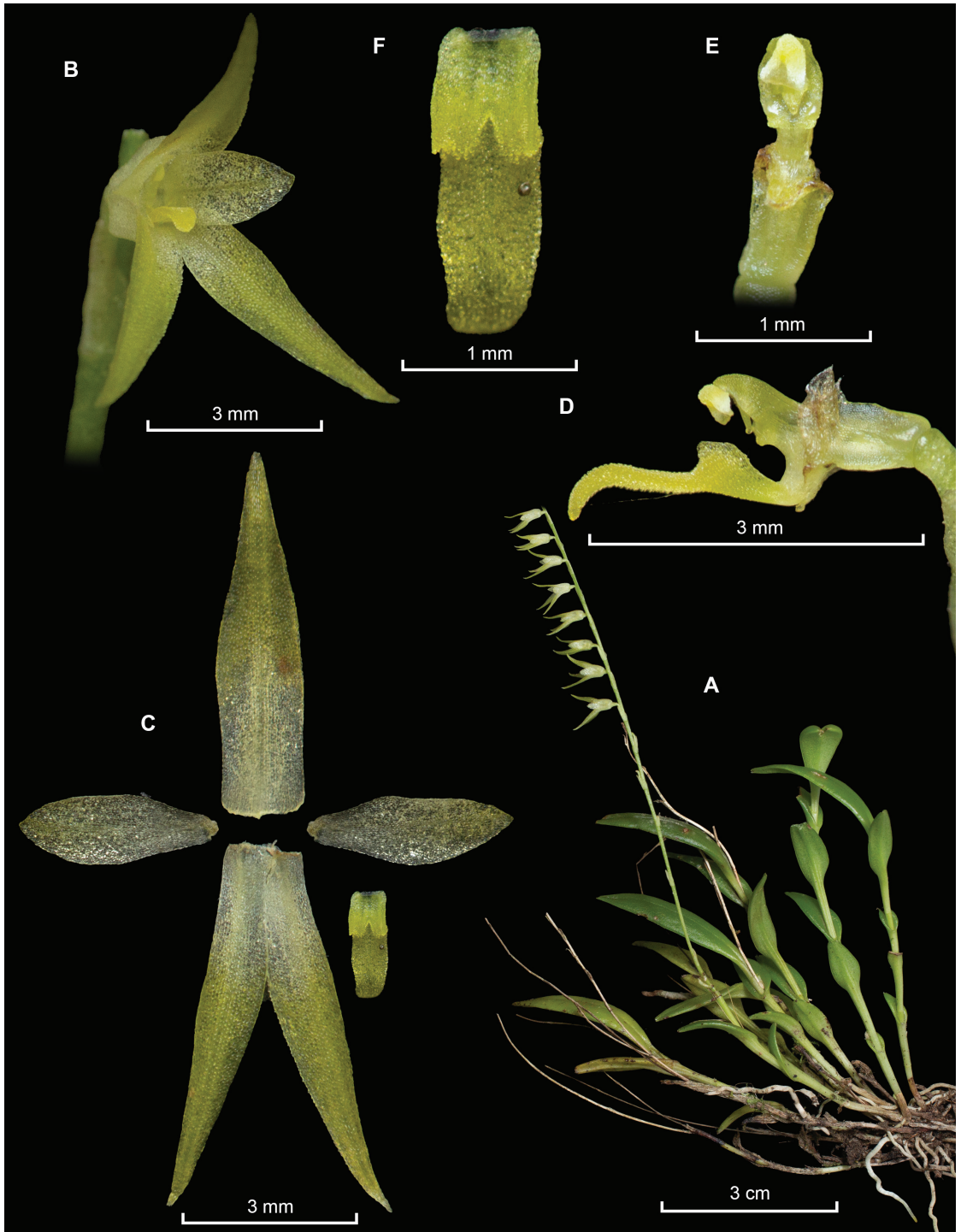


FIGURE 5. LDCP of a specimen of *Frondaria colombiana*. A. Habit. B. Flower. C. Perianth. D. Column and lip, side view. E. Column, ventral view. F. Lip. Photographs by E. Restrepo based on *Restrepo 017* (FAUC-spirit).

TYPE: Colombia, *Wagener 618* (holotype, W; isotype, K-L, a single flower which appears to be lost).

Echinosepala isthmica Pupulin, Harvard Pap. Bot. 25: 172. 2020.

ILLUSTRATION: Luer 1992, pl. 47; Pupulin *et al.* 2017b, f. 4p–s, 6; Misas Urreta 2005, p. 438, p. 439; Karremans & Vieira-Urbe 2020, p. 131, p. 132.

DISTRIBUTION: COL COS NIC PAN.

TYPE: Costa Rica, *Bogarín et al. 8571* (holotype, JBL-spirit).

VOUCHER: Colombia, *Misas Urreta 100* (HPUJ).

Echinosepala lappiformis (A.H.Heller & L.O.Williams) Pridgeon & M.W.Chase, Lindleyana 17(2): 101. 2002.

Brenesia lappiformis (A.H.Heller & L.O.Williams)

Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95:

255. 2004. *Echinella lappiformis* (A.H.Heller &

L.O.Williams) Pridgeon & M.W.Chase, Lindleyana

16(4): 253. 2001, *nom. illeg.* *Myoxanthus lappiformis*

(A.H.Heller & L.O.Williams) Luer, Monogr. Syst.

Bot. Missouri Bot. Gard. 15: 38. 1986. *Pleurothallis*

lappiformis A.H.Heller & L.O.Williams, Fieldiana,

Bot. 31(2): 42, f. 8. 1964.

ILLUSTRATION: Luer 1992, pl. 42; Pupulin *et al.* 2017b, f. 1; Misas Urreta 2005, p. 434, p. 435. Fig. 4I; Karremans & Vieira-Urbe 2020, p. 144.

DISTRIBUTION: COL COS ECU NIC PAN VEN.

TYPE: Nicaragua, *Heller 6620* (holotype, F).

VOUCHER: Colombia, *Misas Urreta 244* (HPUJ).

FRONDARIA Luer

Fronitaria colombiana Szlach., Kolan. & Rykacz., Turkish J. Bot. 42(6): 774. 2018.

ILLUSTRATION: Szlachetko *et al.* 2018, f. 3. Fig. 5.

DISTRIBUTION: *COL.

TYPE: Colombia, *Pennell 9270* (holotype, AMES; drawing, UGDA).

Note: We agree with Szlachetko *et al.* (2018) that the Colombian specimens previously determined as *Fronitaria caulescens* represent a different species.

GRAVENDEELIA Bogarín & Karremans

Gravendeelia chamaelepanthes (Rchb.f.) Bogarín &

Karremans, Phytotaxa 340(2): 130. 2018. *Hum-*

boldtia chamaelepanthes (Rchb.f.) Kuntze, Revis.

Gen. Pl. 2: 667. 1891. *Pleurothallis chamaele-*

panthes Rchb.f., Bonplandia (Hannover) 3: 240.

1855. *Trichosalpinx chamaelepanthes* (Rchb.f.)

Luer, Phytologia 54(5): 394. 1983. *Tubella chama-*

elepanthes (Rchb.f.) Archila, Revista Guatemal.

3(1): 52. 2000 [2009]. *Tubella chamaelepanthes*

(Rchb.f.) Archila, Revista Guatemal. 17(1): 50.

2014 [2015], *nom. superfl.*

ILLUSTRATION: Luer 1997, f. 35, f. 36; Karremans &

Vieira-Urbe 2020, p. 151, p. 152. Fig. 4J.

DISTRIBUTION: COL ECU PER.

TYPE: Ecuador, *Jameson 313* (holotype, W-R-

0025570; isotypes, BM-000082422, BR-

0000006594534, G-00169107, G-00169108,

K-000583708, LE-00001409, P-00485473; tracing

of type, K-L).

VOUCHER: Colombia, *Cuatrecasas 18821* (AMES; COL).

KARMA Karremans

Karma acremona (Luer) Karremans, *comb. nov.*

Bas.: *Pleurothallis acremona* Luer, Selbyana 5(2):

157. 1979. *Trichosalpinx acremona* (Luer) Luer,

Phytologia 54(5): 394. 1983. *Tubella acremona*

(Luer) Archila, Revista Guatemal. 3(1): 46, 48.

2000 [2009]. *Tubella acremona* (Luer) Archila,

Revista Guatemal. 17(1): 48. 2014 [2015], *nom.*

superfl.

ILLUSTRATION: Luer 1997, f. 25.

DISTRIBUTION: BOL COL ECU.

TYPE: Ecuador, *Luer 596* (holotype, SEL).

VOUCHER: Colombia, *Luer 14111* (MO).

Karma alabastra (Luer & R.Escobar) Karremans, Har-

vard Pap. Bot. 28(1): 62. 2023. *Pleurothallis ala-*

bastra Luer & R.Escobar, Orquideología 16: 17.

1983. *Trichosalpinx alabastra* (Luer & R.Escobar)

Luer, Phytologia 54(5): 394. 1983. *Tubella alabas-*

tra (Luer & R.Escobar) Archila, Revista Guatemal.

3(1): 49. 2000 [2009]. *Tubella alabastra* (Luer &

R.Escobar) Archila, Revista Guatemal. 17(1): 48.

2014 [2015], *nom. superfl.*

ILLUSTRATION: Luer & Escobar 1983, p. 19; Luer

1997, f. 26.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 7614* (holotype, SEL).

Karma amygdalodora (Kraenzl.) Karremans, Harvard

Pap. Bot. 28(1): 62. 2023. *Pleurothallis amygda-*

iodora Kraenzl., Bot. Jahrb. Syst. 37: 521. 1906. *Trichosalpinx amygdalodora* (Kraenzl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 64: 43. 1997. *Tubella amygdalodora* (Kraenzl.) Archila, Revista Guatemal. 3(1): 49. 2000 [2009]. *Tubella amygdalodora* (Kraenzl.) Archila, Revista Guatemal. 17(1): 48. 2014 [2015], *nom. superfl.*

ILLUSTRATION: Luer & Escobar 1981a, p. 169; Luer 1997, f. 27.

DISTRIBUTION: COL ECU PER.

TYPE: Peru, *Weberbauer 1824* (holotype, B, destroyed). Peru, *Hutchison & von Bismarck 6425* [neotype, AMES; isoneotypes, F, K, M, MICH, MO, NY, P, UC, US, USM (Luer 1997)].

VOUCHER: Colombia, *Luer 3047* (SEL, JAUM).

Karma arbuscula (Lindl.) Karremans, Harvard Pap. Bot. 28(1): 63. 2023. *Humboldtia arbuscula* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis arbuscula* Lindl., Edwards's Bot. Reg. 28: Misc. 72–73. 1842. *Trichosalpinx arbuscula* (Lindl.) Luer, Phytologia 54(5): 394. 1983. *Tubella arbuscula* (Lindl.) Archila, Revista Guatemal. 3(1): 49. 2000 [2009]. *Tubella arbuscula* (Lindl.) Archila, Revista Guatemal. 17(1): 49. 2014 [2015], *nom. superfl.*

ILLUSTRATION: Luer 1997, f. 28, f. 29.

DISTRIBUTION: BOL COL COS ECU PAN PER VEN.

TYPE: Ecuador, *Hartweg 1408* (holotype, K; isotypes, AMES, LD, W).

VOUCHER: Colombia, *Luer 14150* (MO).

Karma ballatrix (Luer & R.Escobar) Karremans, Harvard Pap. Bot. 28(1): 63. 2023. *Trichosalpinx ballatrix* Luer & R.Escobar, Orquideología 16(2): 178. 1984. *Tubella ballatrix* (Luer & R.Escobar) Archila, Revista Guatemal. 3(1): 50. 2000 [2009]. *Tubella ballatrix* (Luer & R.Escobar) Archila, Revista Guatemal. 17(1): 49. 2014 [2015], *nom. superfl.*

ILLUSTRATION: Luer & Escobar 1984b, p. 179, p. 180; Luer 1997, f. 103.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 8748* (holotype, SEL).

Karma dura (Lindl.) Karremans, Harvard Pap. Bot. 28(1): 64. 2023. *Humboldtia dura* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis dura* Lindl., Fol. Orchid. ~*Pleurothallis*~ (9): 32.

1859. *Trichosalpinx dura* (Lindl.) Luer, Phytologia 54(5): 395. 1983. *Tubella dura* (Lindl.) Archila, Revista Guatemal. 3(1): 54. 2000 [2009]. *Tubella dura* (Lindl.) Archila, Revista Guatemal. 17(1): 51. 2014 [2015], *nom. superfl.*

ILLUSTRATION: Luer 1997, f. 44, f. 45; Stenzel 2007, f. 12.

DISTRIBUTION: BOL BRA COL COS CUB DOM ECU ELS GUA HAI HON JAM L.A. MEX PAN PER VEN.

TYPE: Ecuador, *Jameson s.n.* (holotype, K-L; isotypes, AMES-00074225, W-R-45903).

VOUCHER: Colombia, *Luer 13194* (MO).

Karma escobarii (Luer) Karremans, Harvard Pap. Bot. 28(1): 65. 2023. *Trichosalpinx escobarii* Luer, Orquideología 18(2): 168–170. 1991. *Trichosalpinx escobarii* Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 64: 114–115. 1997, *nom. superfl.* *Tubella escobarii* (Luer) Archila, Revista Guatemal. 3(1): 55. 2000 [2009]. *Tubella escobarii* (Luer) Archila, Revista Guatemal. 17(1): 52. 2014 [2015], *nom. superfl.*

ILLUSTRATION: Luer 1991f, p. 169; Luer 1997, f. 104.

DISTRIBUTION: *COL.

TYPE: Colombia, *Munera & Escobar 607* (holotype, JAUM; isotype, MO).

Karma hypocrita (Garay & Dunst.) Karremans, Harvard Pap. Bot. 28(1): 65. 2023. *Pleurothallis hypocrita* Garay & Dunst., Venez. Orchid. Ill. Vol. 1. 6: 344. 1976. *Trichosalpinx hypocrita* (Garay & Dunst.) Luer, Phytologia 54(5): 395. 1983. *Tubella hypocrita* (Garay & Dunst.) Archila, Revista Guatemal. 3(1): 57. 2000 [2009]. *Tubella hypocrita* (Garay & Dunst.) Archila, Revista Guatemal. 17(1): 53. 2014 [2015], *nom. superfl.*

ILLUSTRATION: Luer 1997, f. 105.

DISTRIBUTION: COL VEN.

TYPE: Venezuela, *Tillett 746-682* (holotype, AMES).

VOUCHER: Colombia, *Cuatrecasas & Romero 25183* (US).

Karma intricata (Lindl.) Karremans, Harvard Pap. Bot. 28(1): 65. 2023. *Humboldtia intricata* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis intricata* Lindl., Orchid. Linden. 1. 1846. *Trichosalpinx intricata* (Lindl.) Luer, Phytologia 54(5):

396. 1983. *Tubella intricata* (Luer) Archila, Revista Guatemal. 3(1): 57. 2000 [2009]. *Tubella intricata* (Luer) Archila, Revista Guatemal. 17(1): 53. 2014 [2015], *nom. superfl.*

ILLUSTRATION: Luer 1997, f. 53.

DISTRIBUTION: COL ECU PER VEN.

TYPE: Venezuela, *Linden 668* (holotype, K-L; isotypes, AMES-00074356, BR-000008434869, G-00169076, P-00485638, W-R-12712).

VOUCHER: Colombia, *Luer Silverstone-Sopkin et al. 1740* (CUVC, MO).

Karma multicuspidata (Rchb.f.) Karremans, Harvard Pap. Bot. 28(1): 66. 2023. *Pleurothallis multicuspidata* Rchb.f., Linnaea 41: 117. 1877. *Trichosalpinx multicuspidata* (Rchb.f.) Luer, Phytologia 54(5): 396. 1983. *Tubella multicuspidata* (Rchb.f.) Archila, Revista Guatemal. 3(1): 60. 2000 [2009]. *Tubella multicuspidata* (Rchb.f.) Archila, Revista Guatemal. 17(1): 54. 2014 [2015], *nom. superfl.*

ILLUSTRATION: Luer 1997, f. 62.

DISTRIBUTION: COL ECU VEN.

TYPE: Colombia, *Wallis s.n.* (holotype, W-R-25694; isotypes, AMES-00074481, AMES-00074482).

Karma pusilla (Kunth) Karremans, Harvard Pap. Bot. 28(1): 67. 2023. *Humboldtia pusilla* (Kunth) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Pleurothallis pusilla* (Kunth) Lindl., Edwards's Bot. Reg. 28: Misc. 82–83. 1842. *Specklinia pusilla* (Kunth) Lindl., Edwards's Bot. Reg. 21: sub. t. 1797. 1835. *Trichosalpinx pusilla* (Kunth) Luer, Phytologia 54(5): 397. 1983. *Tubella pusilla* (Kunth) Archila, Revista Guatemal. 3(1): 62. 2000 [2009]. *Tubella pusilla* (Kunth) Archila, Revista Guatemal. 17(1): 56. 2014 [2015], *nom. superfl.*

ILLUSTRATION: Luer 1997, f. 72.

DISTRIBUTION: COL COS ECU GUY PER VEN.

TYPE: Ecuador, *Bonpland s.n.* (holotype, P-00669678; isotype, W-R-30981; photo of type, AMES-00085705).

VOUCHER: Colombia, *Luer 14347* (MO).

Karma robledorum (Luer) Karremans, Harvard Pap. Bot. 28(1): 67. 2023. *Pleurothallis robledorum* Luer, Orquideología 14: 170. 1981. *Trichosalpinx robledorum* (Luer) Luer, Phytologia 54(5): 397. 1983. *Tubella robledorum* (Luer & R.Escobar) Archila, Revista Guatemal. 3(1): 63. 2000 [2009]. *Tubella robledorum* (Luer & R.Escobar) Archila,

Revista Guatemal. 17(1): 56. 2014 [2015], *nom. superfl.*

ILLUSTRATION: Luer & Escobar 1981a, p. 171; Luer 1997, f. 74.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Luer 2293* (holotype, SEL; isotype, JAUM).

Karma scabridula (Rolfe) Karremans, Harvard Pap. Bot. 28(1): 67. 2023. *Pleurothallis scabridula* Rolfe, Mem. Torrey Bot. Club 4: 260. 1895. *Trichosalpinx scabridula* (Rolfe) Luer, Phytologia 54(5): 397. 1983. *Tubella scabridula* (Rolfe) Archila, Revista Guatemal. 3(1): 64. 2000 [2009]. *Tubella scabridula* (Rolfe) Archila, Revista Guatemal. 17(1): 56. 2014 [2015], *nom. superfl.*

ILLUSTRATION: Luer 1997, f. 75, f. 76.

DISTRIBUTION: BOL COL PER.

TYPE: Bolivia, *Bang 907* (holotype, K-000583703; isotypes, AMES-00074724, BR-0000006572570, G-00169106, GH-00074722, GH-00074723, LE-00001429, MO-176782, NDG-16158, NY-00009238, PH-00023399, US-00446960, US-00093690, W-R-9266).

VOUCHER: Colombia, *Ortiz-Valdivieso 829* (HPUJ).

Karma tenuis (C.Schweinf.) Karremans, Harvard Pap. Bot. 28(1): 68. 2023. *Pleurothallis tenuis* C.Schweinf., Bot. Mus. Leaf. 10: 190, t. 18, f. 8–14. 1942. *Trichosalpinx tenuis* (C.Schweinf.) Luer, Phytologia 54(5): 397. 1983. *Tubella tenuis* (C.Schweinf.) Archila, Revista Guatemal. 3(1): 66. 2000 [2009]. *Tubella tenuis* (C.Schweinf.) Archila, Revista Guatemal. 17(1): 57. 2014 [2015], *nom. superfl.*

ILLUSTRATION: Luer & Escobar 1984b, p. 187; Luer 1997, f. 84.

DISTRIBUTION: BOL COL ECU PER.

TYPE: Peru, *Herrera 2157* (holotype, US).

VOUCHER: Colombia, *Luer & Escobar 8488* (SEL, COL, JAUM).

Karma vagans (Garay & Dunst.) Karremans, Harvard Pap. Bot. 28(1): 68. 2023. *Pleurothallis vagans* Garay & Dunst., Venez. Orchid. Ill. Vol. 1. 6: 372. 1976. *Trichosalpinx vagans* (Garay & Dunst.) Luer, Phytologia 54(5): 398. 1983. *Tubella vagans* (Garay & Dunsterville) Archila, Revista Guatemal. 3(1): 67. 2000 [2009]. *Tubella vagans* (Garay & Dunsterville) Archila, Revista Guatemal. 17(1):

58. 2014 [2015], *nom. superfl.*

ILLUSTRATION: Luer 1997, f. 89.

DISTRIBUTION: *COL.

TYPE: Colombia, *Garay & Sweet 1066* (holotype, AMES).

Karma webbiae (Luer & R.Escobar) Karremans, Harvard Pap. Bot. 28(1): 68. 2023. *Trichosalpinx webbiae* Luer & R.Escobar, Orquideología 16(2): 188. 1984. *Tubella webbiae* (Luer & R.Escobar) Archila, Revista Guatemal. 3(1): 67. 2000 [2009]. *Tubella webbiae* (Luer & R.Escobar) Archila, Revista Guatemal. 17(1): 58. 2014 [2015], *nom. superfl.*

ILLUSTRATION: Luer & Escobar 1984b, p. 189; Luer 1997, f. 90.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 8765* (holotype, SEL).

LANKESTERIANA Karremans

Lankesteriana barbulata (Lindl.) Karremans, Lankesteriana 13(3): 326. 2014. *Anathallis barbulata* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16(4): 247. 2001. *Humboldtia barbulata* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Panmorphia barbulata* (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 146–148. 2006. *Pleurothallis barbata* H.Focke, Bot. Zeitung (Berlin) 11(13): 227. 1853, *nom. illeg.* *Pleurothallis barbulata* Lindl., Fol. Orchid. ~Pleurothallis~ 40. 1859. *Specklinia barbulata* (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 259. 2004. Non *Pleurothallis barbata* Westc. [1841].

ILLUSTRATION: Foldats 1968, f. 26; Luer 1975a, f. 2 (p. 61); Barringer 1986, f. 13; Luer 2006, f. 102a; Misas Urreta 2005, p. 521; Karremans & Vieira-Urbe 2020, p. 153–155, p. 159, p. 160. Fig. 4K.

DISTRIBUTION: BOL COL COS ECU FRE GUA GUY HON MEX PER SUR VEN.

TYPE: Suriname, *Focke s.n.* (holotype, K-L-00079871, illustration).

VOUCHER: Colombia, *Misas Urreta 105* (HPUJ).

Lankesteriana caudatipetala (C.Schweinf.) Karremans, Lankesteriana 13(3): 327. 2014. *Anathallis caudatipetala* (C.Schweinf.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 115: 257. 2009. *Panmorphia caudatipetala* (C.Schweinf.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 150. 2006.

Pleurothallis caudatipetala C.Schweinf., Bot. Mus. Leafl. 10(7): 175–176, t. 22. 1942. *Specklinia caudatipetala* (C.Schweinf.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 259. 2004.

ILLUSTRATION: Luer 2006, f. 106; Karremans & Vieira-Urbe 2020, p. 158. Fig. 4L.

DISTRIBUTION: BOL COL COS ECU PER.

TYPE: Peru, *Schunke 1307* (holotype, F).

VOUCHER: Colombia, *Gutierrez & Moreno 74* (JBB).

Lankesteriana cuspidata (Luer) Karremans, Lankesteriana 13(3): 327. 2014. *Anathallis cuspidata* (Luer) Pridgeon & M.W.Chase, Lindleyana 16(4): 248. 2001. *Panmorphia cuspidata* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 152. 2006. *Pleurothallis cuspidata* Luer, Selbyana 3(3–4): 282–283, f. 241. 1977. *Specklinia cuspidata* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 260. 2004.

ILLUSTRATION: Luer 2006, f. 109; Karremans & Vieira-Urbe 2020, p. 158, p. 160.

DISTRIBUTION: COL COS ECU PAN.

TYPE: Panama, *Williams & Stevenson 1335* (holotype, SEL).

VOUCHER: Colombia, *Ospina & Idrobo 152* (AMES, COL).

Lankesteriana millipeda (Luer) Karremans, Lankesteriana 13(3): 327. 2014. *Anathallis millipeda* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 115: 259. 2009. *Panmorphia millipeda* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 166–167. 2006. *Pleurothallis millipeda* Luer, Orquideología 20: 216–217. 1996. *Specklinia millipeda* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 262. 2004.

ILLUSTRATION: Luer 1996f, 215; Luer 2006, f. 132.

DISTRIBUTION: *COL.

TYPE: Colombia, *Lehmann s.n.* (holotype, K).

Lankesteriana minutissima (Luer) Karremans, Orchids (West Palm Beach) 84: 310. 2015. *Pleurothallis minutissima* Luer, Orquideología 20: 218. 1996. *Specklinia minutissima* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 262. 2004.

ILLUSTRATION: Luer 1996f, 219; Luer 2006, f. 102b.

DISTRIBUTION: *COL.

TYPE: Colombia, *Lehmann 8204* (holotype, K).

Lankesteriana muricaudata (Luer) Karremans, Lankesteriana 13(3): 327. 2014. *Anathallis muricaudata*

data (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 249. 2001. *Panmorphia muricaudata* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 168–169. 2006. *Pleurothallis muricaudata* Luer, *Selbyana* 7(1): 119. 1982. *Specklinia muricaudata* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 262. 2004.

ILLUSTRATION: Luer 2006, f. 135a, f. 135b; Kolanowska *et al.* 2011, p. 33, p. 34; Karremans & Vieira-Urbe 2020, p. 158.

DISTRIBUTION: BOL COL ECU PAN.

TYPE: Ecuador, *Hirtz & Leon s.n.* (holotype, SEL).

VOUCHER: Colombia, *Luer 14747* (MO).

LEPANTHES SW.

Lepanthes abortiva Luer & R.Escobar, *Orquideología* 18(1): 22–24. 1991.

ILLUSTRATION: Luer & Escobar 1991a, p. 23, p. 31(top); Luer & Thorerle 2012a, f. 1.

DISTRIBUTION: *COL.

TYPE: Colombia? [uncertain origin], *Luer 14221* (holotype, MO).

Note: Described from a cultivated specimen without collection data. Probably a synonym of *Lepanthes rafaiana* Pupulin.

Lepanthes acarina Luer, *Phytologia* 54(5): 326. 1983.

ILLUSTRATION: Luer 1996b, f. 2 (p. 185); Vásquez & Ibsch 2000, pl. 12; Luer & Thorerle 2012a, f. 2.

DISTRIBUTION: BOL COL ECU PER.

TYPE: Ecuador, *Luer et al. 4399* (holotype, SEL).

VOUCHER: Colombia, *Luer 8810* (SEL).

Lepanthes aciculifolia Luer, *Orquideología* 20(2): 194–196. 1996.

ILLUSTRATION: Luer 1996f, 195; Luer & Thorerle 2012a, f. 3.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 15536* (holotype, MO).

Lepanthes acrogenia Luer & R.Escobar, *Orquideología* 18(1): 24. 1991.

ILLUSTRATION: Luer & Escobar 1991a, p. 25; Luer & Thorerle 2012a, f. 4; Baquero *et al.* 2019, f. 4c.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 4624* (holotype, SEL).

Lepanthes aculeata Luer, *Phytologia* 54: 327. 1983.

ILLUSTRATION: Luer 1996b, f. 2. Fig. 6A.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer et al. 3203* (holotype, SEL).

VOUCHER: Colombia, *Moreno 363* (CAUP).

Lepanthes acutissima Luer & R.Escobar, *Orquideología* 19(2): 76–77. 1994.

ILLUSTRATION: Luer & Escobar 1994, f. 81 (p. 79), f. 81 (p. 83); Luer & Thorerle 2012a, f. 5.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 16831* (holotype, MO).

Lepanthes aduncata Luer & R.Escobar, *Orquideología* 19(1): 31–32. 1993.

ILLUSTRATION: Luer & Escobar 1993a, p. 17 (left), p. 20 (top left); Luer & Thorerle 2012a, f. 6.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 4060* (holotype, JAUM; isotype, MO).

Lepanthes affinis Luer & R.Escobar, *Orquideología* 17(3): 145–148. 1988.

ILLUSTRATION: Luer & Escobar 1988, p. 147; Luer & Thorerle 2012a, f. 7.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 10331* (holotype, MO).

Lepanthes agatarum J.S.Moreno, N. Gut. & S.Vieira-Urbe, *Phytotaxa* 376(2): 92. 2018.

ILLUSTRATION: Moreno *et al.* 2018, f. 1, f. 2, f. 3a, f. 4a. Fig. 6B.

DISTRIBUTION: *COL.

TYPE: Colombia, *Gutiérrez Morales 012* (holotype, JBB).

Lepanthes aggeris Luer & R.Escobar, *Orquideología* 19(1): 32–33. 1993.

ILLUSTRATION: Luer & Escobar 1993a, p. 17 (right), p. 20 (top middle); Luer & Thorerle 2012a, f. 8.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 5244* (holotype, JAUM; isotype, MO).

Lepanthes agglutinata Luer, *Phytologia* 54(5): 327. 1983.

ILLUSTRATION: Luer 1996b, f. 7 (p. 186); Luer & Thorerle 2012a, f. 9.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *D Alessandro 165* (holotype, SEL).

VOUCHER: Colombia, *Luer 10071* (MO, SEL).

Lepanthes aguירrei Luer, *Selbyana* 30: 4. 2009.

ILLUSTRATION: Luer & Thorerle 2012a, f. 10; Baquero *et al.* 2018, f. 3c.

DISTRIBUTION: *COL.

TYPE: Colombia, *J&L 1296–536* (holotype, MO).

- Lepanthes alcicornis*** Luer & R.Escobar, Amer. Orchid Soc. Bull. 53(4): 368. 1984.
ILLUSTRATION: Luer & Thoele 2012a, f. 11; Vieira-Uribe & Larsen 2014a, f. 4 (left), Restrepo *et al.* 2022, f. 3c.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar & Valencia 2646* (holotype, SEL).
- Lepanthes alkaia*** Luer & R.Escobar, Amer. Orchid Soc. Bull. 54(5): 580–582. 1985.
ILLUSTRATION: Luer & Thoele 2012a, f. 12.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 10142* (holotype, MO).
- Lepanthes alvarezii*** P.Ortiz, Orquideología 24: 115. 2006.
ILLUSTRATION: Ortiz 2006, p. 117 (below), p. 119; Luer & Thoele 2012a, f. 13.
DISTRIBUTION: *COL.
TYPE: Colombia, *Álvarez & Ortiz 1247* (holotype, HPUJ).
- Lepanthes amplior*** Luer & R.Escobar, Orquideología 18(1): 26–2f8. 1991.
ILLUSTRATION: Luer & Escobar 1991a, p. 27, p. 31(bottom); Luer & Thoele 2012a, f. 14.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 10267* (holotype, MO).
- Lepanthes amplispala*** Luer & R.Escobar, Orquideología 19(2): 77–78. 1994.
ILLUSTRATION: Luer & Escobar 1994, f. 82 (p. 83); Luer & Thoele 2012a, f. 15.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer & Escobar 8430* (holotype, SEL).
- Lepanthes anatina*** Luer & R.Escobar, Orquideología 20(3): 281–283, f. 111. 1997.
ILLUSTRATION: Luer & Escobar 1997, f. 111 (p. 282); Luer & Thoele 2012a, f. 16.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 16847* (holotype, MO).
- Lepanthes anchicayae*** J.S.Moreno & S.Vieira-Uribe, Harvard Pap. Bot. 25(1): 100. 2020.
ILLUSTRATION: Moreno *et al.* 2020b, f. 2, 3, 4a, 5a. Fig. 6C.
DISTRIBUTION: *COL.
TYPE: Colombia, *Moreno & Erazo 429* (holotype, CAUP).
- Lepanthes anchorifera*** Luer, Revista Soc. Boliv. Bot. 4(1): 3. 2003.
ILLUSTRATION: Luer 2003a, f. 1, Luer & Thoele 2012a, f. 17.
DISTRIBUTION: *COL.
TYPE: Colombia, *Niessen & Uribe 087* (holotype, MO).
- Lepanthes andrenoglossa*** Rchb.f., Bonplandia (Hannover) 3: 241. 1855.
ILLUSTRATION: Luer 1996b, f. 13 (p. 188); Luer & Thoele 2012a, f. 18.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Jameson 66* (holotype, W-R-0054544; isotype, BM-000084579).
VOUCHER: Colombia, *Luer 12532* (MO).
- Lepanthes anemica*** Luer & Thoele, Harvard Pap. Bot. 16(2): 326, 20. 2011.
ILLUSTRATION: Luer & Thoele 2012a, f. 19.
DISTRIBUTION: *COL.
TYPE: Colombia, *Thoele 142* (holotype, MO).
- Lepanthes ankistra*** Luer & Dressler, Orquideología 16(3): 12 (1986).
ILLUSTRATION: Luer & Dressler 1986a, p. 13, p. 14; Fernández *et al.* 2014, f. 2, f. 14b; Moreno *et al.* 2022b, f. 6a. Fig. 6D.
DISTRIBUTION: COL COS PAN.
TYPE: Panama, *Luer et al. 10534* (holotype, MO).
VOUCHER: Colombia, *Vieira 395* (JAUM).
- Lepanthes anserina*** Luer & R.Escobar, Amer. Orchid Soc. Bull. 53(3): 258. 1984.
ILLUSTRATION: Luer & Thoele 2012a, f. 20.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 8920* (holotype, SEL; isotypes, COL, JAUM).
- Lepanthes antennata*** Luer & R.Escobar, Orquideología 19(2): 81. 1994.
ILLUSTRATION: Luer & Escobar 1994, f. 83 (p. 79), f. 83 (p. 83); Luer & Thoele 2012a, f. 21.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 5064* (holotype, JAUM; isotype, MO).
- Lepanthes antennifera*** Luer & R.Escobar, Amer. Orchid Soc. Bull. 54(1): 52–54. 1985.
ILLUSTRATION: Luer & Thoele 2012a, f. 22.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 10288* (holotype, MO; isotype JAUM).
- Lepanthes antioquiensis*** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 95. 1920.

- DISTRIBUTION: *COL.
 TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 32, No. 122)].
 Note: An obscure taxon excluded by Luer.
- Lepanthes aperta*** Luer, *Selbyana* 30: 5. 2009.
 ILLUSTRATION: Luer 2009b, f. 8; Luer & Thorerle 2012a, f. 23.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 19668* (holotype, MO).
 Note: Described from a cultivated specimen without collection data.
- Lepanthes aquila-borussiae*** Rchb.f., *Bonplandia* (Hannover) 2: 22. 1854.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 24.
 DISTRIBUTION: COL VEN.
 TYPE: Venezuela, *Wagner s.n.* (holotype, W-R-0054546).
 VOUCHER: Colombia, *Luer 10202* (MO).
- Lepanthes arbuscula*** Luer & R.Escobar, *Orquideología* 19(1): 33–34. 1993.
 ILLUSTRATION: Luer & Escobar 1993a, p. 22 (left), p. 20 (top right); Luer & Thorerle 2012a, f. 25.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 5009* (holotype, JAUM; isotype, MO).
- Lepanthes argentata*** Luer & R.Escobar, *Orquideología* 17(3): 150–153. 1988.
 ILLUSTRATION: Luer & Escobar 1988, p. 149 (bottom), p. 151; Luer & Thorerle 2012a, f. 26.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 3274* (holotype, MO).
- Lepanthes aries*** Luer, *Phytologia* 54(5): 329. 1983.
 ILLUSTRATION: Luer 1996b, f. 16 (p. 188); Luer & Thorerle 2012a, f. 27.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 6044* (holotype, SEL).
 VOUCHER: Colombia, *Thorerle 138* (MO).
- Lepanthes aristata*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 54(5): 582–584. 1985.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 28.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 10332* (holotype, JAUM; isotype, MO).
- Lepanthes astraea*** S.Vieira-Uribe & B.T.Larsen, *Orquideología* 31(1): 5–6. 2014.
 ILLUSTRATION: Vieira-Uribe & Larsen 2014a, f. 1, f. 3, f. 4 (right). Fig. 6E.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Vieira 0017* (holotype, JAUM).
- Lepanthes athena*** Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 61(3): 38, f. 18. 1996.
 ILLUSTRATION: Luer 1996b, f. 18 (p. 189); Luer & Thorerle 2012a, f. 29.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 9933* (holotype, MO).
 VOUCHER: Colombia, *Dodson 18050* (MO).
- Lepanthes atomifera*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 53(1): 26. 1984.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 30.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 8965* (holotype, SEL).
- Lepanthes auditor*** Luer & R.Escobar, *Orquideología* 17(3): 154. 1988.
 ILLUSTRATION: Luer & Escobar 1988, p. 149(top), p. 155; Luer & Thorerle 2012a, f. 31.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 3417* (holotype, JAUM; isotype, MO).
- Lepanthes aures-asini*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 53(2): 158. 1984.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 32.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar & Valencia 2540* (holotype, SEL).
- Lepanthes auriculata*** Luer, *Phytologia* 54(5): 330. 1983.
 ILLUSTRATION: Luer 1996b, f. 19 (p. 189); Luer & Thorerle 2012a, f. 33.
 DISTRIBUTION: BOL COL ECU.
 TYPE: Ecuador, *D'Alessandro 164* (holotype, SEL).
 VOUCHER: Colombia, *Silverstone-Sopkin 3786* (CUVC).
- Lepanthes bachue*** S.Vieira-Uribe, J.S.Moreno & E.Parra, *Lankesteriana* 23(1):129. 2023.
 ILLUSTRATION: Vieira-Uribe *et al.* [Lankesteriana, in review], f. 2–5.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Parra-Sánchez et al. 2521* (holotype, VALLE).
- Lepanthes ballatrix*** Luer, *Phytologia* 54(5): 331. 1983.
 ILLUSTRATION: Luer 1996b, f. 22 (p. 190); Luer & Thorerle 2012a, f. 34; Tobar Suarez *et al.* 2021, f. 12d.

- DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 10699* (holotype, MO).
 VOUCHER: Colombia, *Luer 14102* (MO).
- Lepanthes barclaya*** Luer & Thorerle, Harvard Pap. Bot. 16(2): 327. 2011.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 35.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Barclay & Juajibioy 6070* (holotype, MO; isotype US).
- Lepanthes beatrizae*** Luer & R.Escobar, Orquideología 20(3): 283–284. 1997.
 ILLUSTRATION: Luer & Escobar 1997, f. 112 (p. 282), p. 300 (top right); Luer & Thorerle 2012a, f. 36.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 5382* (holotype, MO).
- Lepanthes biglomeris*** Luer & R.Escobar, Orquideología 19(1): 34–35. 1993.
 ILLUSTRATION: Luer & Escobar 1993a, p. 22 (right), p. 20 (bottom left); Luer & Thorerle 2012a, f. 37.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 5122* (holotype, JAUM; isotype, MO).
- Lepanthes biloba*** Lindl., Companion Bot. Mag. 2: 356. 1836.
 ILLUSTRATION: Luer 1996b, f. 26 (p. 191), f. 156 (p. 223); Luer & Thorerle 2012a, f. 38.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Hall s.n.* (holotype, K-L).
 VOUCHER: Colombia, *Luer 14224* (MO).
- Lepanthes binaria*** Luer & Hirtz, Orchidee (Hamburg) 38(6): 291. 1987.
 ILLUSTRATION: Luer 1996b, f. 27 (p. 191); Luer & Thorerle 2012a, f. 39.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 11080* (holotype, MO).
 VOUCHER: Colombia, *Luer 4651* (SEL).
- Lepanthes bipinnatula*** Luer & R.Escobar, Orquideología 20(3): 284–286. 1997.
 ILLUSTRATION: Luer & Escobar 1997, f. 113 (p. 282); Luer & Thorerle 2012a, f. 40.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 17653* (holotype, MO).
- Lepanthes bitriangularis*** Luer & R.Escobar, Selbyana 30: 5. 2009.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 41.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 5220* (holotype, MO).
- Lepanthes botivana*** S.Vieira-Uribe & J.S.Moreno, Orquideología 37(1): 18. 2020.
 ILLUSTRATION: Vieira-Uribe & Moreno 2020, f. 1–3. Fig. 6F.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Vieira & Alfonso 051* (holotype, JAUM).
- Lepanthes boyacensis*** Luer & R.Escobar, Amer. Orchid Soc. Bull. 53(8): 820. 1984.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 42.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 8777* (holotype, SEL).
- Lepanthes brevipedicellata*** Luer, R.Escobar & Thorerle, Harvard Pap. Bot. 16(2): 323. 2011.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 43.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 10041* (holotype, MO).
- Lepanthes cacique-tone*** Luer & R.Escobar, Orquideología 20(3): 286–287. 1997.
 ILLUSTRATION: Luer & Escobar 1997, f. 114 (p. 282), p. 301 (bottom left); Luer & Thorerle 2012a, f. 44.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar s.n.* (holotype, JAUM; isotype, MO).
 Note: The holotype is *Escobar s.n.* according to the protologue, but Luer & Thorerle (2012a) indicate the type is *Luer et al. 17641* (holotype, JAUM; isotype, MO).
- Lepanthes cactoura*** Luer & R.Escobar, Orquideología 18(1): 28. 1991.
 ILLUSTRATION: Luer & Escobar 1991a, p. 29; Luer & Thorerle 2012a, f. 45; Vieira-Uribe & Moreno 2019, f. 9e.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 3399* (holotype, MO).
- Lepanthes caesariata*** Luer & R.Escobar, Orquideología 19(2): 82. 1994.
 ILLUSTRATION: Luer & Escobar 1994, f. 84 (p. 83); Luer & Thorerle 2012a, f. 46; Vieira-Uribe & Moreno 2022, f. 5b.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 16733* (holotype, MO).
- Lepanthes calimae*** P.Ortiz, Orquideología 21: 69. 1998.
 ILLUSTRATION: Ortiz 1998, p. 69, p. 70; Luer & Thorerle 2012a, f. 47; Moreno 2019a, f. 30.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Ortiz et al. 1090* (holotype, COL).

- Lepanthes callisto*** Luer & Hirtz, *Orchidee* (Hamburg) 38(6): 287–289. 1987.
ILLUSTRATION: Luer 1996b, f. 32 (p. 192); Luer & Thoele 2012a, f. 48.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 11076* (holotype, SEL).
VOUCHER: Colombia, *Luer 17949* (MO).
- Lepanthes calochroma*** Thoele & Hirtz, *Phytotaxa* 201: 52. 2015
ILLUSTRATION: Thoele & Hirtz 2015, f. 1, f. 2. Fig. 6G.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Hirtz 10397* (holotype, MO).
VOUCHER: Colombia, *Moreno 389* (CAUP).
Note: Described from a cultivated specimen without collection data.
- Lepanthes calodictyon*** Hook., *Bot. Mag.* t. 5259. 1861.
ILLUSTRATION: Luer 1996b, f. 33 (p. 193); Luer & Thoele 2012a, f. 49.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Spruce s.n.* (holotype, K).
VOUCHER: Colombia, *Escobar 5166* (MO).
- Lepanthes campodoste*** Luer & Hirtz, *Novon* 3: 444. 1993.
ILLUSTRATION: Luer 1996b, f. 36 (p. 193). Fig. 6H.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 13472* (holotype, MO).
VOUCHER: Colombia, *Moreno 530* (CUVC).
- Lepanthes camptica*** Luer & Hirtz, *Monogr. Syst. Bot. Missouri Bot. Gard.* 61(3): 50. 1996.
ILLUSTRATION: Luer 1996b, f. 37 (p. 194). Fig. 6I.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Hirtz et al. 4662* (holotype, MO).
VOUCHER: Colombia, *Gutierrez 076* (JBB).
- Lepanthes canaliculata*** Luer & R.Escobar, *Orquideología* 20(3): 287–289. 1997.
ILLUSTRATION: Luer & Escobar 1997, f. 115 (p. 290); Luer & Thoele 2012a, f. 50.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 16739* (holotype, MO).
- Lepanthes cardenasii*** J.S.Moreno, Gal.-Tar. & Zuluaga, *Lankesteriana* 22(2): 86. 2022.
ILLUSTRATION: Moreno *et al.* 2022b, f. 1, f. 2, f. 3a. Fig. 6K.
DISTRIBUTION: *COL.
TYPE: Colombia, *Galindo-Tarazona et al. 1485* (holotype, CUVC-spirit).
- Lepanthes carinata*** Luer & Hirtz, *Orchidee* (Hamburg) 41: 163. 1990.
ILLUSTRATION: Luer 1996b, f. 39 (p. 194). Fig. 6J.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 11833* (holotype, MO).
VOUCHER: A photo of a Colombian specimen is reproduced herein (Fig. 6J).
- Lepanthes carrilloi*** Luer & Thoele, *Harvard Pap. Bot.* 16(2): 329, 23. 2011.
ILLUSTRATION: Luer & Thoele 2012a, f. 51.
DISTRIBUTION: *COL.
TYPE: Colombia, *Thoele 104* (holotype, MO).
- Lepanthes carrizosana*** Gal.-Tar., Zuluaga & J.S.Moreno, *Harvard Pap. Bot.* 28(1): 89–92. 2023.
ILLUSTRATION: Moreno *et al.* 2023b, f. 1, f. 2.
DISTRIBUTION: *COL.
TYPE: Colombia, *R. Galindo-Tarazona et al. 1586* (holotype, CUVC).
- Lepanthes carunculigera*** Rchb.f., *Flora* 69: 557. 1886.
ILLUSTRATION: Luer & Thoele 2012a, f. 52.
DISTRIBUTION: *COL.
TYPE: Colombia, *Lehmann 3213* (holotype, W-R-0054517).
- Lepanthes caudata*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 53(3): 260. 1984.
ILLUSTRATION: Luer 1996b, f. 42 (p. 195); Luer & Thoele 2012a, f. 53.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Luer & Escobar 8345* (holotype, SEL).
- Lepanthes caudatisepala*** C.Schweinf., *Bot. Mus. Leaf.* 10: 123, t. 15. 1942.
ILLUSTRATION: Luer 1996b, f. 43 (p. 195); Luer & Thoele 2012a, f. 54.
DISTRIBUTION: BOL COL ECU PER.
TYPE: Peru, *Macbride 4273* (holotype, F).
VOUCHER: Colombia, *Luer 14101* (MO).
- Lepanthes celox*** Luer & Hirtz, *Lindleyana* 2: 36. 1987.
ILLUSTRATION: Luer 1996b, f. 44 (p. 195). Fig. 6L.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Hirtz 1461* (holotype, MO).
VOUCHER: Colombia, *Moreno 347* (CAUP).
- Lepanthes cerambyx*** Luer & R.Escobar, *Orquideología* 18(1): 32–34. 1991.
ILLUSTRATION: Luer & Escobar 1991a, p. 33, p. 39(top); Luer & Thoele 2012a, f. 55.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar et al. 3382* (holotype, JAUM; isotypes, COL, MO).
- Lepanthes cercion*** Luer & R.Escobar, *Orquideología*

- 17(3): 158–161. 1987.
 ILLUSTRATION: Luer & Escobar 1988, p. 159; Luer & Thorerle 2012a, f. 56.
 DISTRIBUTION: COL VEN.
 TYPE: Colombia, *Luer et al. 11355* (holotype, MO).
 Note: holotype originally SEL, corrected to MO (Luer 2012).
- Lepanthes chelonion*** Luer & R.Escobar, Amer. Orchid Soc. Bull. 54(1): 54–56. 1985.
 ILLUSTRATION: Moreno *et al.* 2018, f. 3c; Luer & Thorerle 2012a, f. 57.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 10215* (holotype, MO).
- Lepanthes chimaera*** Luer & R.Escobar, Orquideología 16(2): 130. 1984.
 ILLUSTRATION: Luer & Escobar 1984a, p. 131; Luer 1996b, f. 45 (p. 196); Luer & Thorerle 2012a, f. 58.
 DISTRIBUTION: COL ECU.
 TYPE: Colombia, *Luer et al. 4633* (holotype, SEL).
- Lepanthes chocoensis*** Luer & Thorerle, Harvard Pap. Bot. 16(2): 330, f. 24. 2011.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 59.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Silverstone-Sopkin et al. 1636* (holotype, MO; isotype CUVU).
- Lepanthes cincinnata*** Luer & R.Escobar, Orquideología 19(1): 35–36. 1993.
 ILLUSTRATION: Luer & Escobar 1993a, p. 23 (left), p. 20 (middle left); Luer & Thorerle 2012a, f. 60.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 5081* (holotype, JAUM; isotype, MO).
- Lepanthes cingens*** Luer & R.Escobar, Orquideología 19(2): 87–88. 1994.
 ILLUSTRATION: Luer & Escobar 1994, f. 86 (p. 79), f. 86 (p. 84); Luer & Thorerle 2012a, f. 61.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 16783* (holotype, MO).
- Lepanthes cissyana*** S.Vieira-Urbe & J.S.Moreno, Lankesteriana 19(2): 68. 2019.
 ILLUSTRATION: Vieira-Urbe & Moreno 2019, f. 5, f. 6. Fig. 7B.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Moreno et al. 520* (holotype, JAUM; isotype CAUP).
- Lepanthes clausa*** Luer & R.Escobar, Amer. Orchid Soc. Bull. 54(6): 728. 1985.
 ILLUSTRATION: Gutiérrez Morales *et al.* 2021, f. 5a; Luer & Thorerle 2012a, f. 62.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 10274* (holotype, MO; isotype JAUM).
- Lepanthes climax*** Luer & R.Escobar, Orquideología 17(3): 162. 1988.
 ILLUSTRATION: Luer & Escobar 1988, p. 163; Luer & Thorerle 2012a, f. 63.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer & Escobar 7870* (holotype, SEL).
- Lepanthes cocculifera*** Luer & R.Escobar, Orquideología 16(2): 133. 1984.
 ILLUSTRATION: Luer & Escobar 1984a, p. 134; Luer & Thorerle 2012a, f. 64.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer & Escobar 7866* (holotype, SEL).
- Lepanthes cogolloi*** Luer & R.Escobar, Orquideología 18(1): 34,36. 1991.
 ILLUSTRATION: Luer & Escobar 1991a, p. 35; Luer & Thorerle 2012a, f. 65.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Cogollo et al. 3539* (holotype, JAUM; isotype, MO).
- Lepanthes conchylata*** Luer, Selbyana 30(1): 6. 2009.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 66.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 19658* (holotype, MO).
 Note: Described from a cultivated specimen without collection data.
- Lepanthes confusa*** Ames & C.Schweinf., Sched. Orch. 10: 40–41. 1930.
 ILLUSTRATION: Luer 1996b, f. 53 (p. 198); Luer & Thorerle 2012a, f. 67; Bogarín *et al.* 2020, f. 8, f. 9.
 DISTRIBUTION: COL COS ECU HON PAN.
 TYPE: Costa Rica, *Standley 48709* (holotype, AMES).
 VOUCHER: Colombia, *Escobar 5084* (MO).
- Lepanthes contingens*** Luer, Phytologia 54(5): 335. 1983.
 ILLUSTRATION: Luer 1996b, f. 55 (p. 198); Luer & Thorerle 2012a, f. 68;
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 7152* (holotype, SEL).
 VOUCHER: Colombia, *Luer 4637* (SEL).
- Lepanthes cordata*** Luer & R.Escobar, Orquideología

- 17(3): 165–168. 1988.
 ILLUSTRATION: Luer & Escobar 1988, p. 167; Luer & Thorerle 2012a, f. 69; Vieira-Uribe *et al.* 2021, f. 4b.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 11371* (holotype, MO).
- Lepanthes cordillerana*** E. Restrepo, J.S. Moreno & Gal.-Tar., *Phytotaxa* 603(1): 71. 2023.
 ILLUSTRATION: Parra-Sánchez *et al.* 2023, f. 1–2.
 DISTRIBUTION: *COL.
 TYPE: *Galindo-Tarazona et al. 1454* (holotype, CUVC).
- Lepanthes cornualis*** Luer & R. Escobar, *Orquideología* 18(1): 36, 79. 1991.
 ILLUSTRATION: Luer & Escobar 1991a, p. 37; Luer 1996b, f. 57 (p. 199); Luer & Thorerle 2012a, f. 70; Moreno *et al.* 2020a, f. 9A.
 DISTRIBUTION: COL ECU.
 TYPE: Colombia, *Luer et al. 12525* (holotype, MO).
- Lepanthes corrugata*** Luer & Dalström, *Monogr. Syst. Bot. Missouri Bot. Gard.* 61(3): 63, f. 58. 1996.
 ILLUSTRATION: Luer 1996b, f. 58 (p. 199) Luer & Thorerle 2012a, f. 71.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Dalström et al. 2153* (holotype, MO).
 VOUCHER: Colombia, *Ortiz 1414* (HPUJ).
- Lepanthes costata*** Rchb.f., *Flora* 69: 557. 1886.
 DISTRIBUTION: *COL.
 TYPE: Colombia, unknown collector (holotype, ?).
 Note: An obscure name.
- Lepanthes cuatrecasasii*** Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 112: 109, f. 3. 2007.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 72.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Cuatrecasas 20601* (holotype, AMES).
- Lepanthes cucullata*** Luer & R. Escobar, *Orquideología* 19(2): 89–90. 1994.
 ILLUSTRATION: Luer & Escobar 1994, f. 88 (p. 84); Luer & Thorerle 2012a, f. 73; Gutiérrez Morales *et al.* 2021, f. 5b.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 10282* (holotype, MO).
- Lepanthes culex*** Luer & R. Escobar, *Amer. Orchid Soc. Bull.* 53(7): 716. 1984.
 ILLUSTRATION: Restrepo *et al.* 2022, f. 3d; Luer & Thorerle 2012a, f. 74.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 3189* (holotype, MO); isotypes, JAUM, SEL).
- Lepanthes cuneiformis*** Luer & R. Escobar, *Orquideología* 16(2): 135. 1984.
 ILLUSTRATION: Luer & Escobar 1984a, p. 136; Luer & Thorerle 2012a, f. 75.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 7943* (holotype, SEL).
- Lepanthes cunicularis*** Luer & R. Escobar, *Orquideología* 20(3): 289, 291. 1997.
 ILLUSTRATION: Luer & Escobar 1997, f. 116 (p. 290), p. 300 (bottom left); Luer & Thorerle 2012a, f. 76.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar s.n.* (holotype, JAUM; isotype, MO).
- Lepanthes cyclochila*** Luer & R. Escobar, *Orquideología* 19(2): 90–91. 1994.
 ILLUSTRATION: Luer & Escobar 1994, f. 89 (p. 79), f. 89 (p. 93); Luer & Thorerle 2012a, f. 77.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 5241* (holotype, JAUM; isotype, MO).
- Lepanthes cymbium*** Luer & R. Escobar, *Orquideología* 19(2): 91. 1994.
 ILLUSTRATION: Luer & Escobar 1994, f. 90 (p. 80), f. 90 (p. 93); Luer & Thorerle 2012a, f. 78; Luer 1996b, f. 65 (p. 201); Moreno *et al.* 2018, f. 3e.
 DISTRIBUTION: COL ECU.
 TYPE: Colombia, *Escobar et al. 4016* (holotype, MO).
- Lepanthes cyrtostele*** Luer & Hirtz, *Monogr. Syst. Bot. Missouri Bot. Gard.* 65: 102. 1998.
 ILLUSTRATION: Dodson & Luer 2011, f. 5B. Fig. 7A.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 18748* (holotype, MO).
 VOUCHER: Colombia, *Cortes 81* (CUVC).
- Lepanthes darioi*** Luer & R. Escobar, *Orquideología* 20(3): 291–292, f. 117. 1997.
 ILLUSTRATION: Luer & Escobar 1997, f. 117 (p. 290), p. 300 (bottom right); Luer & Thorerle 2012a, f. 79.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 17638* (holotype, MO; isotype JAUM).
- Lepanthes dasyura*** Luer & R. Escobar, *Orquideología* 18(1): 40–42. 1991.
 ILLUSTRATION: Luer & Escobar 1991a, p. 41; Luer &

- Thoerle 2012a, f. 80.
DISTRIBUTION: *COL.
TYPE: Colombia, *Cogollo et al. 3365* (holotype, JAUM; isotype, MO).
- Lepanthes davidii*** Gal.-Tar., Zuluaga & J.S.Moreno, Lankesteriana 22(2): 86. 2022.
ILLUSTRATION: Moreno *et al.* 2022b, f. 4, f. 5, f. 6c. Fig. 7C.
DISTRIBUTION: *COL.
TYPE: Colombia, *Zuluaga et al. 5077* (holotype, CUVC-spirit).
- Lepanthes decurva*** Luer & Hirtz, Orchidee (Hamburg) 39(3): 103. 1988.
ILLUSTRATION: Luer 1996b, f. 67 (p. 201). Fig. 7D.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 11810* (holotype, MO).
VOUCHER: Colombia, *Moreno & Erazo 277* (CAUP).
- Lepanthes debedoutii*** P.Ortiz, Orquideología 24: 116. 2006.
ILLUSTRATION: Ortiz 2006, p. 117 (above), p. 120; Luer & Thoerle 2012a, f. 81.
DISTRIBUTION: *COL.
TYPE: Colombia, *Ortiz et al. 1248* (holotype, HPUJ).
- Lepanthes debilis*** Luer & R.Escobar, Orquideología 17(3): 169–172. 1988.
ILLUSTRATION: Luer & Escobar 1988, p. 171, p. 173(bottom); Luer & Thoerle 2012a, f. 82.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar et al. 3465* (holotype, JAUM; isotype, MO).
- Lepanthes declivis*** Luer & R.Escobar, Orquideología 21(2): 142–145. 1999.
ILLUSTRATION: Luer & Escobar 1999, p. 143; Pérez-Escobar *et al.* 2010c, p. 48, p. 49; Luer & Thoerle 2012a, f. 83; Moreno *et al.* 2022b, f. 12b.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 17713* (holotype, MO).
- Lepanthes deficiens*** Luer & R.Escobar, Orquideología 17(3): 174–178. 1988.
ILLUSTRATION: Luer & Escobar 1988, p. 173(top), p. 177; Luer & Thoerle 2012a, f. 84.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 3270* (holotype, MO).
- Lepanthes deformis*** Luer & Hirtz, Orchidee (Hamburg) 38(1): 38. 1987.
ILLUSTRATION: Luer 1996b, f. 68 (p. 201); Luer & Thoerle 2012a, f. 85.
DISTRIBUTION: COL COS ECU PAN.
TYPE: Ecuador, *Luer et al. 9857* (holotype, MO).
VOUCHER: Colombia, *Luer 18421* (MO).
- Lepanthes delhierroi*** Luer & Hirtz, Novon 3: 445. 1993.
ILLUSTRATION: Luer 1996b, f. 70 (p. 202). Fig. 7E.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Hirtz et al. 4965* (holotype, MO).
VOUCHER: Colombia, *Vieira 396* (JAUM).
- Lepanthes deliciosensis*** Luer & R.Escobar, Orquideología 19(2): 95–96. 1994.
ILLUSTRATION: Luer & Escobar 1994, f. 91 (p. 93); Luer & Thoerle 2012a, f. 86.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer & Escobar 8473* (holotype, SEL).
- Lepanthes deutera*** Luer & Thoerle, Selbyana 30(1): 7. 2009.
ILLUSTRATION: Luer & Thoerle 2012a, f. 87.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 5347* (holotype, MO).
- Lepanthes dewildei*** Luer & R.Escobar, Orquideología 20(3): 292–294. 1997.
ILLUSTRATION: Luer & Escobar 1997, f. 118 (p. 290); Luer & Thoerle 2012a, f. 88.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 16848* (holotype, MO).
- Lepanthes diabolica*** Luer & R.Escobar, Orquideología 18(1): 42. 1991.
ILLUSTRATION: Luer & Escobar 1991a, p. 43; Luer & Thoerle 2012a, f. 89.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 10158* (holotype, MO).
- Lepanthes dicyrptopetala*** Luer & Hirtz, Selbyana 30(1): 8. 2009.
ILLUSTRATION: Luer & Thoerle 2012a, f. 90.
DISTRIBUTION: *COL.
TYPE: Colombia, *Hirtz 8670* (holotype, MO).
Note: Without collection data.
- Lepanthes didactyla*** Luer & R.Escobar, Orquideología 16(2): 137. 1984.
ILLUSTRATION: Luer & Escobar 1984a, p. 138; Luer & Thoerle 2012a, f. 91.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 7715* (holotype, SEL).
- Lepanthes discolor*** Luer & R.Escobar, Orquideología 17(3): 183–187. 1988.

- ILLUSTRATION: Luer & Escobar 1988, p. 187; Luer & Thorerle 2012a, f. 92.
DISTRIBUTION: COL PAN.
TYPE: Colombia, *Escobar 3359* (holotype, JAUM; isotypes, COL, MO).
- Lepanthes dodsonii*** Luer, *Phytologia* 54(5): 340. 1983.
ILLUSTRATION: Luer 1996b, f. 75 (p. 203); Luer & Thorerle 2012a, f. 93.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Dodson et al. 8475* (holotype, SEL).
VOUCHER: Colombia, *Cogollo et al. 3870* (MO).
- Lepanthes dolabrata*** Luer & R.Escobar, *Orquideología* 20(3): 294–295. 1997.
ILLUSTRATION: Luer & Escobar 1997, f. 119 (p. 296); Luer & Thorerle 2012a, f. 94.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 17642* (holotype, MO).
- Lepanthes dolichopus*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 7: 96. 1920.
ILLUSTRATION: Mansfeld 1929, pl. 32, (n. 123).
DISTRIBUTION: *COL.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 32, No. 123)].
Note: An obscure taxon not monographed by Luer.
- Lepanthes dorae*** J.S.Moreno, *Gal.-Tar. & Zuluaga, Lankesteriana* 22(2): 93. 2022.
ILLUSTRATION: Moreno *et al.* 2022b, f. 7, f. 8, f. 9a. Fig. 7F.
DISTRIBUTION: *COL.
TYPE: Colombia, *Zuluaga et al. 5078* (holotype, CUVC-spirit).
- Lepanthes dougdarlingii*** S.Vieira-Uribe & J.S.Moreno, *Lankesteriana* 19(2): 71. 2019.
ILLUSTRATION: Vieira-Uribe & Moreno 2019, f. 7, f. 8, f. 9a, f. 10a. Fig. 7G.
DISTRIBUTION: *COL.
TYPE: Colombia, *Moreno et al. 521* (holotype, JAUM; isotype CAUP).
- Lepanthes dryades*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 53(9): 918. 1984.
ILLUSTRATION: Luer & Thorerle 2012a, f. 95.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 10137* (holotype, MO; isotype SEL).
- Lepanthes dumba*** Luer, *Selbyana* 30(1): 9. 2009.
ILLUSTRATION: Luer & Thorerle 2012a, f. 96.
DISTRIBUTION: *COL.
TYPE: Colombia, *J&L s.n.* (holotype, MO).
Note: Described from a cultivated specimen without collection data.
- Lepanthes dunstervilleorum*** Foldats, *Acta Bot. Venez.* 3: 333. 1968.
ILLUSTRATION: Foldats 1968, f. 9; Luer & Escobar 1984a, p. 148, p. 149; Luer 1996b, f. 76 (p. 203); Luer & Thorerle 2012a, f. 97a, f. 97b.
DISTRIBUTION: COL ECU VEN.
TYPE: Venezuela, *Steyermark et al. 98525* (holotype, VEN).
VOUCHER: Colombia, *Escobar 5189* (MO).
- Lepanthes echidion*** Luer & R.Escobar, *Orquideología* 16(2): 139. 1984.
ILLUSTRATION: Luer & Escobar 1984a, p. 140; Luer & Thorerle 2012a, f. 98.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 7953* (holotype, SEL).
- Lepanthes ectopa*** Luer, *Selbyana* 30(1): 9. 2009.
ILLUSTRATION: Luer 2009b, f. 17; Luer & Thorerle 2012a, f. 99.
DISTRIBUTION: *COL.
TYPE: Colombia, *Silverstone-Sopkin 7967* (holotype, MO).
- Lepanthes edwardsii*** Ames, *Bot. Mus. Leafl.* 1(4): 4–8. 1933.
ILLUSTRATION: Luer & Thorerle 2012a, f. 100; Pupulin 2021, f. 1, f. 2a, f. 3, f. 4.
DISTRIBUTION: BEL COL COS GUA HON NIC.
TYPE: Honduras, *Edwards 96* (holotype, AMES).
VOUCHER: Colombia, *Misas 74* (HPUJ).
Note: Colombian materials are unlikely to fit *L. edwardsii sensu* Pupulin (2021).
- Lepanthes effusa*** Schltr., *Repert. Spec. Nov. Regni Veg.* 14: 126. 1915.
ILLUSTRATION: Luer 1996b, f. 78 (p. 204); Luer & Thorerle 2012a, f. 101.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Sodiño 25* (holotype, B, destroyed). Ecuador, *Hirtz 2057* [neotype, MO, Luer (1996)].
VOUCHER: Colombia, *Callejas 7795* (HUA).
- Lepanthes elata*** Rchb.f., *Beitr. Orchid.-K. C. Amer.* 90–91. 1866.
ILLUSTRATION: Luer 2001b, p. 43; Luer & Thorerle

2012a, f. 102a, f. 102b.

DISTRIBUTION: COL COS PAN.

TYPE: Costa Rica, *Wendland 844* (holotype, W-R-0054548).

VOUCHER: Colombia, *Otero 274* (CUVC, MO).

Lepanthes elegantula Schltr. Repert. Spec. Nov. Regni Veg. 14: 127. 1915.

ILLUSTRATION: Luer 1996b, f. 86 (p. 205). Fig. 7H.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Sodiroi 24* [holotype, B, destroyed; lectotype (selected here), QPLS-211080]. Ecuador, *Hirtz 2063* [neotype, MO (Luer 1996b), here rejected].

VOUCHER: Colombia, *Moreno 415* (CAUP).

Note: Luer (1996b) mistakenly selected a lectotype for this species based on a specimen collected by Hirtz. He probably intended to select a neotype instead. However, an isotype is available and should be selected as lectotype.

Lepanthes elephantina Luer & R.Escobar, Orquideología 16(2): 141. 1984.

ILLUSTRATION: Luer & Escobar 1984a, p. 142; Luer 1996b, f. 83 (p. 205); Luer & Thorerle 2012a, f. 103.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Luer & Luer 3470* (holotype, SEL).

Lepanthes elongata Luer & Hirtz, Lindleyana 2(2): 99. 1987.

ILLUSTRATION: Luer 1996b, f. 84 (p. 205); Luer & Thorerle 2012a, f. 104.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Hirtz 1811* (holotype, MO).

VOUCHER: Colombia, *Luer 14225* (MO).

Lepanthes equicalceolata Luer & R.Escobar, Orquideología 19(1): 24. 1993.

ILLUSTRATION: Luer & Escobar 1993a, p. 23 (right), p. 20 (middle below); Luer 1996b, f. 3 (p. 10); Luer & Thorerle 2012a, f. 105.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 4059* (holotype, JAUM; isotype, MO).

Lepanthes eros Luer & R.Escobar, Amer. Orchid Soc. Bull. 53(2): 160. 1984.

ILLUSTRATION: Luer & Thorerle 2012a, f. 106.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 8869* (holotype, SEL).

Lepanthes erythrocles Luer & R.Escobar, Orquideología 18(1): 44. 1991.

ILLUSTRATION: Luer & Escobar 1991a, p. 45; Luer &

Thorerle 2012a, f. 107.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 12808* (holotype, MO).

Lepanthes escifera Luer & R.Escobar, Amer. Orchid Soc. Bull. 53(1): 28. 1984.

ILLUSTRATION: Luer & Thorerle 2012a, f. 108.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 8956* (holotype, SEL; isotype COL).

Lepanthes escobariana Garay, Orquideología 4: 76. 1969.

ILLUSTRATION: Garay 1969, p. 81 (top right); Luer & Thorerle 2012a, f. 109.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 531* (holotype, AMES).

Lepanthes eucerca Luer & Thorerle, Harvard Pap. Bot. 16: 332. 2011.

ILLUSTRATION: Luer & Thorerle 2012a, f. 110.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 10232* (holotype, MO).

Lepanthes exaltata Luer & R.Escobar, Amer. Orchid Soc. Bull. 53(4): 370. 1984.

ILLUSTRATION: Luer & Thorerle 2012a, f. 111.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 6640* (holotype, SEL).

Lepanthes farallonensis Haelterman, Gal-Tar. & Zuluaga, Lankesteriana 21(3): 342. 2021.

ILLUSTRATION: Baquero *et al.* 2021, f. 1a, f. 2, f. 3, f. 4a, f. 4c. Fig. 7I.

DISTRIBUTION: *COL.

TYPE: Colombia, *Galindo-Tarazona & Espitia 1531* (holotype, CUVC-72981).

Lepanthes felis Luer & R.Escobar, Amer. Orchid Soc. Bull. 52(12): 1264. 1983.

ILLUSTRATION: Luer 1996b, f. 4 (p. 10), f. 5 (p. 11); Luer & Thorerle 2012a, f. 112; Moreno & Vieira-Urbe 2020, f. 43.

DISTRIBUTION: *COL.

TYPE: Colombia, *Valencia 2605* (holotype, SEL).

Lepanthes ferax Luer & R.Escobar, Orquideología 18(1): 48. 1991.

ILLUSTRATION: Luer & Escobar 1991a, p. 39(bottom), p. 47; Luer & Thorerle 2012a, f. 113.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 10376* (holotype, MO).

Lepanthes fibulifera Luer & R.Escobar, Amer. Orchid Soc. Bull. 53(1): 29. 1984.

- ILLUSTRATION: Luer & Thorerle 2012a, f. 114.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar & Valencia 2604* (holotype, SEL).
- Lepanthes filamentosa*** Luer & Hirtz, *Novon* 3(4): 448, f. 8. 1993.
 ILLUSTRATION: Luer 1996b, f. 93 (p. 208); ; Luer & Thorerle 2012a, f. 115; Baquero *et al.* 2018, f. 4e.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 12378* (holotype, MO).
 VOUCHER: Colombia, *Thorerle 141* (MO).
- Lepanthes fimbriatilabia*** J.S.Moreno, Gal.–Tar., Zuluaga, *Harvard Pap. Bot.* 26(1): 178, 181. 2021.
 ILLUSTRATION: Moreno *et al.* 2021, f. 4, f. 5, f. 6a. Fig. 7J.
 DISTRIBUTION: *COL.
 TYPE: Colombia, Galindo-Tarazona & Mora 1548 (holotype, CUVC).
- Lepanthes florenciana*** J.S.Moreno & D.Hoyos, *Phytotaxa* 559(1): 56. 2022.
 ILLUSTRATION: Moreno *et al.* 2022a, f. 2, f. 3, f. 6, f. 7A. Fig. 7K.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Hoyos et al. 945* (holotype, COAH; isotype HUAZ).
- Lepanthes focalis*** Luer, *Phytologia* 54(5) 343. 1983.
 ILLUSTRATION: Luer 1996b, f. 99 (p. 209); Luer & Thorerle 2012a, f. 116.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 5524* (holotype, SEL).
 VOUCHER: Colombia, *Luer 16830* (MO).
- Lepanthes fonnegrae*** Luer & R.Escobar, *Orquideología* 19(1): 25. 1993.
 ILLUSTRATION: Luer & Escobar 1993a, p. 20 (middle right), p. 26 (left); Luer & Thorerle 2012a, f. 117.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 5181* (holotype, MO).
- Lepanthes forceps*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 53(2): 161. 1984.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 118.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 6680* (holotype, SEL).
- Lepanthes foreroi*** P.Ortiz, O.Pérez & E.Parra, *Orquideología* 26: 137. 2009.
 ILLUSTRATION: Ortiz *et al.* 2009, p. 138; Luer & Thorerle 2012a, f. 119.
 DISTRIBUTION: *COL.
- TYPE: Colombia, *Canizales et al. 244* (holotype, VALLE).
 Note: *Ortiz et al. 1439* (HPUJ) is cited as isotype but is actually a paratype prepared from the same cultivated plant as the holotype but on a different date.
- Lepanthes foveata*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 53(10): 1044. 1984.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 120.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 10308* (holotype, MO; isotype SEL).
- Lepanthes furcata*** Luer & R.Escobar, *Orquideología* 19(1): 27. 1993.
 ILLUSTRATION: Luer & Escobar 1993a, p. 20 (bottom center), p. 26 (right); Luer & Thorerle 2012a, f. 121.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 5055* (holotype, JAUM; isotype, MO).
- Lepanthes gargantua*** Rchb.f., *Xenia Orchid.* 1: 150. 1856.
 ILLUSTRATION: Luer 1996b, f. 103 (p. 210); Luer & Thorerle 2012a, f. 122.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Jameson 110* (holotype, W).
 VOUCHER: Colombia, *Luer 14135* (holotype, MO).
- Lepanthes gelata*** Luer & R.Escobar, *Orquideología* 20: 295. 1997.
 ILLUSTRATION: Luer & Escobar 1997, f. 120 (p. 296); Luer & Thorerle 2012a, f. 123.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 16837* (holotype, MO).
- Lepanthes gemina*** Luer & Hirtz, *Amer. Orchid Soc. Bull.* 54(3): 314–316. 1985.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 124.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 10340* (holotype, JAUM; isotype, MO).
- Lepanthes georgii*** Luer & R.Escobar, *Orquideología* 19(2): 96. 1994.
 ILLUSTRATION: Luer & Escobar 1994, f. 92 (p. 79), f. 92 (p. 93); Luer & Escobar 1999, p. 141; Luer & Thorerle 2012a, f. 125; Restrepo *et al.* 2022, f. 3e.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 16639* (holotype, JAUM; isotype, MO).
- Lepanthes giraldoi*** Luer, *Orquideología* 22(1): 37. 2001.
 ILLUSTRATION: Luer 2001b, p. 39; Luer & Thorerle 2012a, f. 126.

- DISTRIBUTION: *COL.
 TYPE: Colombia, *Giraldo-Gensini 169* (holotype, TULV; isotype, MO).
- Lepanthes glorieae*** S.Vieira-Uribe, J.S.Moreno & Pérez-Arcila, *Orquideología* 38(1): 6. 2021.
 ILLUSTRATION: Vieira-Uribe *et al.* 2021, f. 1–3, f. 4a. Fig. 7L.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Vieira 055* (holotype, JAUM-spirit; isotype HUA).
- Lepanthes golondrina*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 53(7): 718. 1984.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 127.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 1171* (holotype, JAUM; isotype SEL).
- Lepanthes grildrig*** Luer & R.Escobar, *Orquideología* 18(1): 49. 1991.
 ILLUSTRATION: Luer & Escobar 1991a, p. 51; Luer & Thorerle 2012a, f. 128.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 10356* (holotype, MO).
- Lepanthes guanacasensis*** Luer & R.Escobar, *Orquideología* 19(2): 97. 1994.
 ILLUSTRATION: Luer & Escobar 1994, f. 93 (p. 94); Luer & Thorerle 2012a, f. 129.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer & Escobar 8419* (holotype, SEL).
- Lepanthes gustavo*** Luer & R.Escobar, *Orquideología* 20(3): 298–299. 1997.
 ILLUSTRATION: Luer & Escobar 1997, f. 121 (p. 296); Luer & Thorerle 2012a, f. 130.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 17677* (holotype, MO).
- Lepanthes guttula-sanguinis*** Luer & R.Escobar, *Orquideología* 17(3): 188–192. 1988.
 ILLUSTRATION: Luer & Escobar 1988, p. 189, p. 193(top); Luer & Thorerle 2012a, f. 131.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar et al. 3460* (holotype, JAUM; isotype, MO).
 Note: Originally described as *Lepanthes guttula-sanguinis*.
- Lepanthes habenifera*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 53(4): 371. 1984.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 132; Vieira-Uribe & Moreno 2019, f. 9f.
- DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 8966* (holotype, SEL).
- Lepanthes helgae*** Luer & R.Escobar, *Orquideología* 18(1): 52. 1991.
 ILLUSTRATION: Luer & Escobar 1991a, p. 53; Luer & Thorerle 2012a, f. 133.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 14261* (holotype, MO).
- Lepanthes hemirhoda*** Garay, *Canad. J. Bot.* 34: 250. 1956.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 135.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Cuatrecasas 12458* (holotype, US; isotype COL).
- Lepanthes heptapus*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 52(12): 1266. 1983.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 136.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar & Valencia 2601* (holotype, SEL).
- Lepanthes heteroloba*** Luer, R.Escobar & Thorerle, *Harvard Pap. Bot.* 16: 332. 2011.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 137.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 3421* (holotype, MO).
- Lepanthes hexapus*** Luer & R.Escobar, *Orquideología* 16(2): 144. 1984.
 ILLUSTRATION: Luer & Escobar 1984a, p. 145; Luer 1996b, f. 114 (p. 213); Luer & Thorerle 2012a, f. 138; Baquero *et al.* 2018, f. 3b.
 DISTRIBUTION: COL ECU.
 TYPE: Colombia, *Luer et al. 4619* (holotype, SEL).
- Lepanthes hirpex*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 54(5): 584. 1985.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 139.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 3264* (holotype, JAUM; isotypes, COL, MO).
- Lepanthes hirsutula*** Luer & Hirtz, *Lindleyana* 2(3): 135. 1987.
 ILLUSTRATION: Luer 1996b, f. 115 (p. 213); ; Luer & Thorerle 2012a, f. 140; Baquero *et al.* 2019, f. 4e.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 12365* (holotype, MO).
 VOUCHER: Colombia, *Thorerle 130* (MO).
- Lepanthes hirtzii*** Luer, *Phytologia* 54(1): 345. 1983.
 ILLUSTRATION: Luer 1996b, f. 116 (p. 213); Luer & Thorerle 2012a, f. 141.

- DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 4394* (holotype, SEL).
 VOUCHER: Colombia, *Luer 3118* (SEL).
- Lepanthes hortensis*** Luer & R.Escobar, *Orquideología* 17(3): 194. 1988.
 ILLUSTRATION: Luer & Escobar 1988, p. 193(bottom), p. 195; Luer & Thorerle 2012a, f. 142; Vieira-Uribe & Moreno 2019, f. 9b, 10b.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar et al. 2727* (holotype, MO).
- Lepanthes hubeinii*** Luer, *Orchideen* 38(2): 58. 1987.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 143.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 11422* (holotype, MO).
 Note: Described from a cultivated specimen without collection data.
- Lepanthes hurgo*** Luer & Béhar, *Revista Soc. Boliv. Bot.* 4(1): 7. 2003.
 ILLUSTRATION: Luer 2003a, f. 3; Luer & Thorerle 2012a, f. 144.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Behar 154* (holotype, MO).
 Note: Described from a cultivated specimen without collection data.
- Lepanthes hwangiae*** J.S.Moreno & S.Vieira-Uribe, *Phytotaxa* 567 (2): 149–161. 2022.
 ILLUSTRATION: Vieira *et al.* 2022, f. 4, 5. Fig. 8A.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Vieira 30* (holotype, JAUM).
- Lepanthes hymenoptera*** Luer & Hirtz, *Orchidee (Hamburg)* 39: 101 (1988).
 ILLUSTRATION: Luer 1996b, f. 120 (p. 214); Vieira-Uribe & Moreno 2022, f. 5c. Fig. 10J.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 11002* (holotype, MO)
 VOUCHER: Colombia, *Perdomo et al. 554* (LAMUA).
- Lepanthes hyphosa*** Luer & R.Escobar, *Orquideología* 17(3): 199. 1988.
 ILLUSTRATION: Luer & Escobar 1988, p. 201, p. 203(top); Luer & Thorerle 2012a, f. 145.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 3272* (holotype, MO).
- Lepanthes ictalurus*** Luer, *Phytologia* 54(5): 346. 1983.
 ILLUSTRATION: Luer 1996b, f. 122 (p. 215); Luer & Thorerle 2012a, f. 146.
- DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 7151* (holotype, SEL).
 VOUCHER: Colombia, *Luer 12539* (MO).
 Note: The Colombian voucher may be *L. tetrachaeta* instead.
- Lepanthes illex*** Luer, *Phytologia* 54(5): 347. 1983.
 ILLUSTRATION: Luer 1996b, f. 125 (p. 216); Luer & Thorerle 2012a, f. 147.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 6263* (holotype, SEL).
 VOUCHER: Colombia, *Moreno 272* (CAUP).
- Lepanthes imbricans*** Luer & R.Escobar, *Orquideología* 21(2): 147–149. 1999.
 ILLUSTRATION: Luer & Escobar 1999, p. 148; Luer & Thorerle 2012a, f. 148.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 17855* (holotype, MO).
- Lepanthes imposita*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 54: 56. 1985.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 149; Thorerle & Hirtz 2015, f. 4.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 7671* (holotype, SEL).
- Lepanthes impotens*** Luer & R.Escobar, *Orquideología* 20(3): 299, 302. 1997.
 ILLUSTRATION: Luer & Escobar 1997, f. 122 (p. 296); Luer & Thorerle 2012a, f. 150; Moreno *et al.* 2021, f. 7b.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 16842* (holotype, MO).
- Lepanthes insolita*** Luer & R.Escobar, *Orquideología* 17(3): 204. 1988.
 ILLUSTRATION: Luer & Escobar 1988, p. 203(bottom), p. 207; Luer & Thorerle 2012a, f. 151; Restrepo *et al.* 2022, f. 3f.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 3354* (holotype, JAUM; isotype, MO).
- Lepanthes intonsa*** Luer, *Phytologia* 54(5): 348. 1983.
 ILLUSTRATION: Luer 1996b, f. 129 (p. 217); Luer & Thorerle 2012a, f. 152.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 6212* (holotype, SEL).
 VOUCHER: Colombia, *Escobar 5205* (MO).
- Lepanthes ionoptera*** Rchb.f., *Bonplandia* (Hannover) 3: 70. 1855.
 ILLUSTRATION: Vásquez & Ibsch 2000, pl. 26; Luer

- & Thorerle 2012a, f. 153.
DISTRIBUTION: BOL COL PER VEN.
TYPE: Colombia, *Wagener s.n.* (holotype, W).
- Lepanthes irmae*** Gal.–Tar., Zuluaga, J.S.Moreno & Mora-Aguilar, Harvard Pap. Bot. 26(1): 178. 2021.
ILLUSTRATION: Moreno *et al.* 2021, f. 1, f. 2. Fig. 8B.
DISTRIBUTION: *COL.
TYPE: Colombia, *Galindo-Tarazona & Mora 1504* (holotype, CUVC).
- Lepanthes isochila*** Luer, Orquideología 20(2): 196–198. 1996.
ILLUSTRATION: Luer 1996f, 197; Luer & Thorerle 2012a, f. 154.
DISTRIBUTION: *COL.
TYPE: Colombia, *Behar 36* (holotype, MO).
- Lepanthes isosceles*** Luer & R.Escobar, Amer. Orchid Soc. Bull. 53(4): 372. 1984.
ILLUSTRATION: Luer & Thorerle 2012a, f. 155.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 8740* (holotype, SEL).
- Lepanthes janitor*** Luer & R.Escobar, Amer. Orchid Soc. Bull. 53(5): 476. 1984.
ILLUSTRATION: Luer 1996b, f. 135 (p. 218); Luer & Thorerle 2012a, f. 156.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Escobar & Valencia 3197* (holotype, MO; isotypes, COL, JAUM, SEL).
- Lepanthes jardinensis*** Luer & R.Escobar, Orquideología 19(1): 38–39. 1993.
ILLUSTRATION: Luer & Escobar 1993a, p. 20 (bottom right), p. 29 (left); Luer & Thorerle 2012a, f. 157.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 2696* (holotype, JAUM; isotypes, MO, SEL).
- Lepanthes jostii*** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 76: 142. 1999.
ILLUSTRATION: Dodson & Luer 2011, f. 50a. Fig. 8C.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Jost 1137* (holotype, MO).
VOUCHER: Colombia, *Moreno 278* (CAUP).
- Lepanthes juan-felipei*** Luer & Thorerle, Harvard Pap. Bot. 16(2): 333, 28. 2011.
ILLUSTRATION: Luer & Thorerle 2012a, f. 158.
DISTRIBUTION: *COL.
TYPE: Colombia, *Thorerle 136* (holotype, MO).
- Lepanthes jubata*** Luer, Phytologia 54(5): 350. 1983.
ILLUSTRATION: Luer 1996b, f. 138 (p. 219); Luer & Thorerle 2012a, f. 159.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 4447* (holotype, SEL).
VOUCHER: Colombia, *Luer 21050* (MO).
- Lepanthes jucas*** J.S.Moreno & S.Vieira-Urbe, Lankesteriana 20(2): 233. 2020.
ILLUSTRATION: Moreno *et al.* 2020a, f. 7, f. 8, f. 9D. Fig. 8D.
DISTRIBUTION: *COL.
TYPE: Colombia, *Moreno et al. 526* (holotype, JAUM; isotype CAUP).
- Lepanthes kokonuko*** J.S.Moreno & Pisso-Florez, Lankesteriana 20(2): 230. 2020.
ILLUSTRATION: Moreno *et al.* 2020a, f. 2–3, f. 6A. Fig. 8E.
DISTRIBUTION: *COL.
TYPE: Colombia, *Moreno et al. 523* (holotype, JAUM; isotype CAUP).
- Lepanthes labiata*** Luer, Orquideología 22(1): 38–42. 2001.
ILLUSTRATION: Luer 2001b, p. 41; Luer & Thorerle 2012a, f. 160.
DISTRIBUTION: *COL.
TYPE: Colombia, *Otero 1004* (holotype, CUVC; isotype, MO).
- Lepanthes lacera*** Luer & Thorerle, Harvard Pap. Bot. 16(2): 333. 2011.
ILLUSTRATION: Luer & Thorerle 2012a, f. 161.
DISTRIBUTION: *COL.
TYPE: Colombia, *Cogollo et al. 2639* (holotype, MO).
- Lepanthes larvina*** Luer & R.Escobar, Amer. Orchid Soc. Bull. 53(2): 162. 1984.
ILLUSTRATION: Luer & Thorerle 2012a, f. 162.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 8984* (holotype, SEL).
- Lepanthes lasiopetala*** Garay & Dunst., Venez. Orchid. Ill. Vol. 1. 6: 178. 1976.
ILLUSTRATION: Luer & Thorerle 2012a, f. 163.
DISTRIBUTION: *COL.
TYPE: Venezuela, *Dunsterville 1025* (holotype, AMES).
- Lepanthes licrophora*** Luer & B.T.Larsen, Harvard Pap. Bot. 18: 179. 2013.
ILLUSTRATION: Luer & Thorerle 2013, f. 8. Fig. 8F.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Larsen 2012 0430–02* (holotype, MO).
VOUCHER: Colombia, *Vieira & Jaramillo 269* (JAUM).

Note: Described from a cultivated specimen without collection data.

Lepanthes lehmannii Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 160. 1924.

DISTRIBUTION: *COL.

TYPE: Colombia, *Lehmann CLVII* [holotype, B, destroyed; lectotype (selected here), BM-000084588].

Lepanthes ligiae Luer & R.Escobar, Orquideología 18(1): 56. 1991.

ILLUSTRATION: Luer & Escobar 1991a, p. 57, p. 65(bottom); Luer & Thoele 2012a, f. 164.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 3309* (holotype, MO).

Note: In the protologue, the type collection is given the numbers *Escobar 3309* and *Luer 10389*, with the latter indicated as the holotype. Luer & Thoele (2012a) indicate that *Escobar 3309* is the number of the holotype species and *Luer 10389* is the number of Luer's illustration based on that specimen.

Lepanthes lilliputae Luer & R.Escobar, Orquideología 17(3): 208. 1988.

ILLUSTRATION: Luer & Escobar 1988, p. 209; Luer 1996b, f. 108 (p. 211); Luer & Thoele 2012a, f. 165.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Luer et al. 10230* (holotype, MO).

Lepanthes limbata Luer & R.Escobar, Orquideología 19(2): 98. 1994.

ILLUSTRATION: Luer & Escobar 1994, f. 94 (p. 79), f. 94 (p. 94); Luer & Thoele 2012a, f. 166.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 16807* (holotype, MO).

Lepanthes linealis Luer & R.Escobar, Orquideología 18(1): 58. 1991.

ILLUSTRATION: Luer & Escobar 1991a, p. 59; Luer & Thoele 2012a, f. 167.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 14223* (holotype, MO).

Lepanthes lingulosa Luer & R.Escobar, Orquideología 21(2): 149–151. 1999.

ILLUSTRATION: Luer & Escobar 1999, p. 150; Luer & Thoele 2012a, f. 168.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 5481* (holotype, MO).

Lepanthes lycocephala Luer & R.Escobar, Orquideología 16(2): 147. 1984.

ILLUSTRATION: Luer & Escobar 1984a, p. 150; Luer 1996b, f. 143 (p. 220); Luer & Thoele 2012a, f.

169; Vieira-Urbe & Moreno 2019, f. 4b.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Luer et al. 4626* (holotype, SEL).

Lepanthes macdougallii Luer & Thoele, Harvard Pap. Bot. 16(2): 335. 2011.

ILLUSTRATION: Luer & Thoele 2012a, f. 170.

DISTRIBUTION: *COL.

TYPE: Colombia, *Macdougall 4389* (holotype, MO).

Lepanthes macrantha Garay, Canad. J. Bot. 34: 250. 1956.

ILLUSTRATION: Luer & Thoele 2012a, f. 171.

DISTRIBUTION: *COL.

TYPE: Colombia, *Cuatrecasas 12403* (holotype, US; isotype COL).

Lepanthes macrostylis Luer & R.Escobar, Orquideología 21(2): 151–154. 1999.

ILLUSTRATION: Luer & Escobar 1999, p. 143, p. 153; Luer & Thoele 2012a, f. 172.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 17672* (holotype, MO).

Lepanthes magnifica Luer, Phytologia 54: 351 (1983).

ILLUSTRATION: Luer 1996b, f. 145 (p. 221). Fig. 8G.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer et al. 7333* (holotype, SEL).

VOUCHER: Colombia, *Bonilla 1190* (VALLE).

Lepanthes manabina Dodson, Icon. Pl. Trop. 2: t. 128. 1980.

ILLUSTRATION: Luer 1996b, f. 147 (p. 221); ; Luer & Thoele 2012a, f. 173; Baquero *et al.* 2021, f. 1c.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Dodson & Thien 1725* (holotype, SEL).

VOUCHER: Colombia, *Luer 17695* (MO).

Lepanthes maria-victoriae Luer & Thoele, Harvard Pap. Bot. 16: 335. 2011.

ILLUSTRATION: Luer & Thoele 2012a, f. 174.

DISTRIBUTION: *COL.

TYPE: Colombia, *Thoele 139* (holotype, MO).

Lepanthes marielana N.Gutiérrez, J.S.Moreno & S.Vieira-Urbe, Phytotaxa 484(1): 116–117. 2021.

ILLUSTRATION: Gutiérrez Morales *et al.* 2021, f. 1, f. 2, f. 5c. Fig. 8H.

DISTRIBUTION: *COL.

TYPE: Colombia, *Calderón Hernández & Gutiérrez 156* (holotype, JBB).

Lepanthes marthae Luer & R.Escobar, Orquideología 18(1): 60. 1991.

ILLUSTRATION: Luer & Escobar 1991a, p. 61; Luer &

- Thoerle 2012a, f. 175.
DISTRIBUTION: *COL.
TYPE: Colombia, *Munera & Escobar 160* (holotype, JAUM; isotype, MO).
- Lepanthes matisii*** Luer, Thoerle & P.Ortiz, *Orchid Digest* 75(1): 24–31. 2011.
ILLUSTRATION: Luer & Thoerle 2012a, f. 176.
DISTRIBUTION: *COL.
TYPE: Colombia, *Thoerle 106* (holotype, HPUJ).
- Lepanthes medinae*** Luer & Thoerle, *Harvard Pap. Bot.* 16(2): 336, 32. 2011.
ILLUSTRATION: Luer & Thoerle 2012a, f. 177.
DISTRIBUTION: *COL.
TYPE: Colombia, *Thoerle 114* (holotype, MO).
- Lepanthes medusa*** Luer & R.Escobar, *Orquideología* 18(1): 64. 1991.
ILLUSTRATION: Luer & Escobar 1991a, p. 63, p. 65(top); Luer & Thoerle 2012a, f. 178.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 14098* (holotype, MO; isotype JAUM).
- Lepanthes mefueënsis*** Luer & R.Escobar, *Orquideología* 17(3): 212–215. 1988.
ILLUSTRATION: Luer & Escobar 1988, p. 213; Luer & Thoerle 2012a, f. 179.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 10296* (holotype, MO).
- Lepanthes meleagris*** Luer & R.Escobar, *Orquideología* 19(2): 99. 1994.
ILLUSTRATION: Luer & Escobar 1994, f. 95 (p. 94); Luer & Thoerle 2012a, f. 180.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 16782* (holotype, JAUM; isotype, MO).
Note: Type originally cited as Luer *et al.* 167821, corrected in Luer & Thoerle (2012a).
- Lepanthes menatoi*** Luer & R.Vásquez *Phytologia* 55: 189. 1984.
ILLUSTRATION: Luer 1996b, f. 153 (p. 223). Fig. 8I.
DISTRIBUTION: BOL COL ECU PER.
TYPE: Bolivia, *Luer 9428* (holotype, MO).
VOUCHER: Colombia, *Sierra-Ariza 101* (VALLE).
- Lepanthes micellilabia*** Luer & R.Escobar, *Orquideología* 19(2): 101–102. 1994.
ILLUSTRATION: Luer & Escobar 1994, f. 96 (p. 79); f. 96 (p. 94); Luer & Thoerle 2012a, f. 181.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 5191* (holotype, JAUM; isotype, MO).
- Lepanthes microcalodyction*** J.S.Moreno & Baquero, *Harvard Pap. Bot.* 25(1): 101. 2020.
ILLUSTRATION: Moreno *et al.* 2020b, f. 6, 7, 8B, 9B. Fig. 8J.
DISTRIBUTION: *COL.
TYPE: Colombia, *Moreno & Erazo 432* (holotype, CAUP).
- Lepanthes micronyx*** Luer & R.Escobar, *Orquideología* 20(3): 302–304. 1997.
ILLUSTRATION: Luer & Escobar 1997, f. 123 (p. 306); Luer & Thoerle 2012a, f. 182.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 17648* (holotype, MO).
- Lepanthes microscopica*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 52(12): 1268. 1983.
ILLUSTRATION: Luer & Thoerle 2012a, f. 183.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar & Valencia 2598* (holotype, SEL).
- Lepanthes mirabilis*** Ames, *Sched. Orch.* 1: 12. 1922.
ILLUSTRATION: Luer & Thoerle 2012a, f. 184.
DISTRIBUTION: *COL.
TYPE: Colombia, *Pittier 592* (holotype, US).
Note: Described from a cultivated specimen without collection data.
- Lepanthes mirador*** Luer & Hirtz, *Monogr. Syst. Bot. Missouri Bot. Gard.* 61(3): 119, f. 157. 1996.
ILLUSTRATION: Luer 1996b, f. 157 (p. 224); Luer & Thoerle 2012a, f. 185; Tobar Suarez *et al.* 2021, f. 8b.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Hirtz et al. 4940* (holotype, MO).
VOUCHER: Colombia, *Thoerle 123* (MO).
- Lepanthes monitor*** Luer, *Phytologia* 54(5): 354. 1983.
ILLUSTRATION: Luer 1996b, f. 158 (p. 224); Vásquez & Ibsch 2000, f. 16, pl. 32; Luer & Thoerle 2012a, f. 186.
DISTRIBUTION: BOL COL ECU PER.
TYPE: Ecuador, *Luer et al. 7096* (holotype, SEL).
VOUCHER: Colombia, *Luer 14335* (MO).
- Lepanthes monoptera*** Lindl., *J. Bot. (Hooker)* 1: 10. 1834.
ILLUSTRATION: Luer 1996b, f. 159 (p. 224); Luer & Thoerle 2012a, f. 187; Moreno *et al.* 2020a, f. 9C.
DISTRIBUTION: BOL COL ECU.
TYPE: Ecuador, *Jameson s.n.* (holotype, K; tracing of type, K-L).
VOUCHER: Colombia, *Luer 10301* (MO).

- Lepanthes montezumae*** J.S. Moreno & S. Vieira-Urbe, *Orquideología* 35(2): 177. 2018.
ILLUSTRATION: Vieira-Urbe & Moreno 2018, f. 2, f. 3, f. 4b. Fig. 8K.
DISTRIBUTION: *COL.
TYPE: Colombia, *Vieira et al. 24* (holotype, JAUM).
- Lepanthes morae*** Zuluaga, J.S. Moreno & Gal.-Tar., *Lankesteriana* 22(2): 96. 2022.
ILLUSTRATION: Moreno *et al.* 2022b, f. 10, f. 11, f. 12a. Fig. 8L.
DISTRIBUTION: *COL.
TYPE: Colombia, *Galindo-Tarazona et al. 1558* (holotype, CUVC-spirit).
- Lepanthes mucronata*** Lindl., *Companion Bot. Mag.* 2: 356. 1836.
ILLUSTRATION: Luer 1996b, f. 161 (p. 225); Vásquez & Ibsch 2000, pl. 34; Luer & Thoele 2012a, f. 188.
DISTRIBUTION: BOL COL ECU PER.
TYPE: Ecuador, *Hall s.n.* (holotype, K).
VOUCHER: Colombia, *Luer 16753* (MO).
- Lepanthes muscula*** Luer, *Phytologia* 54(5): 354. 1983.
ILLUSTRATION: Luer 1996b, f. 162 (p. 225); Luer & Thoele 2012a, f. 189.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer & Escobar 8300* (holotype, SEL).
VOUCHER: Colombia, *Pasmíño 43* (MO).
- Lepanthes myxophora*** Luer & R. Escobar, *Amer. Orchid Soc. Bull.* 53(3): 261. 1984.
ILLUSTRATION: Luer & Thoele 2012a, f. 190.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar et al. 2621* (holotype, SEL).
- Lepanthes nautilus*** Luer & R. Escobar, *Amer. Orchid Soc. Bull.* 53(10): 1046. 1984.
ILLUSTRATION: ; Luer & Thoele 2012a, f. 191; Moreno *et al.* 2018, f. 3f.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 10203* (holotype, MO; isotype SEL).
- Lepanthes nematodes*** Luer & R. Escobar, *Orquideología* 18(1): 66–68. 1991.
ILLUSTRATION: Luer & Escobar 1991a, p. 67; Luer & Thoele 2012a, f. 192.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 13018* (holotype, MO; isotype, JAUM).
- Lepanthes nematostele*** Luer, *Novon* 3(4): 449, f. 11. 1993.
ILLUSTRATION: Luer 1996b, f. 166 (p. 226); Luer & Thoele 2012a, f. 193.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Dalström & Höjjer 1234* (holotype, MO).
VOUCHER: Colombia, *Pérez & Parra s.n.* (HPUJ, VALLE).
- Lepanthes nicolasii*** Luer & R. Escobar, *Orquideología* 20(3): 304–305. 1997.
ILLUSTRATION: Luer & Escobar 1997, f. 124 (p. 306), p. 301 (top right); Luer & Thoele 2012a, f. 194.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 5452* (holotype, MO).
- Lepanthes niesseniae*** Luer, *Revista Soc. Boliv. Bot.* 4(1): 7. 2003.
ILLUSTRATION: Luer 2003a, f. 4; Luer & Thoele 2012a, f. 195; Baquero & Monteros 2020, f. 1c.
DISTRIBUTION: *COL.
TYPE: Colombia, *Niessen & Uribe 088* (holotype, MO).
- Lepanthes niphias*** Luer & R. Escobar, *Orquideología* 18(1): 68–70. 1991.
ILLUSTRATION: Luer & Escobar 1991a, p. 69; Luer & Thoele 2012a, f. 196; Moreno *et al.* 2022, f. 7b.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 13019* (holotype, MO; isotype JAUM).
- Lepanthes nontecta*** Luer, *Phytologia* 54(5): 356. 1983.
ILLUSTRATION: Luer 1996b, f. 168 (p. 226).
DISTRIBUTION: COL ECU.
TYPE: Ecuador, Luer & Hirtz *et al.* 6887 (holotype, SEL).
VOUCHER: A photographic voucher of a Colombian specimen cited in Arias *et al.* 2023.
- Lepanthes norae*** Foldats, *Bol. Soc. Venez. Ci. Nat.* 28: 244. 1969.
ILLUSTRATION: Luer & Thoele 2012a, f. 197a, f. 197b.
DISTRIBUTION: *COL.
TYPE: Venezuela, *Dunsterville & Dunsterville 64* (holotype, VEN).
VOUCHER: Colombia, *Luer 10220* (MO).
- Lepanthes nubicola*** Rchb.f., *Xenia Orchid.* 1: 149. 1858.
DISTRIBUTION: *COL.
TYPE: Colombia, *Wagner s.n. [601]* (holotype, W-R-0054330; isotype, K-L).

- Lepanthes nulla*** Luer & R.Escobar, *Orquideología* 19(2): 102. 1994.
ILLUSTRATION: Luer & Escobar 1994, f. 97 (p. 109); Luer & Thorerle 2012a, f. 198.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 16748* (holotype, MO).
- Lepanthes obovata*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 53(8): 823. 1984.
ILLUSTRATION: Luer & Thorerle 2012a, f. 199.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 3195* (holotype, MO; isotypes, JAUM, SEL).
- Lepanthes octavioi*** Luer & R.Escobar, *Orquideología* 18(2): 128–130. 1991.
ILLUSTRATION: Luer & Escobar 1991b, p. 129; Luer & Thorerle 2012a, f. 200.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 12548* (holotype, MO; isotype JAUM).
- Lepanthes octopus*** Luer & R.Escobar, *Orquideología* 20(3): 305–307. 1997.
ILLUSTRATION: Luer & Escobar 1997, f. 125 (p. 306), p. 300 (top left); Luer & Thorerle 2012a, f. 201.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar s.n.* (holotype, JAUM; isotype, MO).
Note: The holotype is *Escobar s.n.* according to the protologue, but Luer & Thorerle (2012a) indicate the type as *Luer 17531* which is Luer's illustration number.
- Lepanthes ollaris*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 53(9): 920. 1984.
ILLUSTRATION: Luer 1996b, f. 171 (p. 227); Luer & Thorerle 2012a, f. 202.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Luer et al. 8954* (holotype, SEL).
- Lepanthes opetidion*** Luer & R.Escobar, *Orquideología* 18(2): 131–133. 1991.
ILLUSTRATION: Luer & Escobar 1991b, p. 132; Luer & Thorerle 2012a, f. 203.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 12504* (holotype, MO).
- Lepanthes ophelma*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 54(6): 732–734. 1985.
ILLUSTRATION: Luer & Thorerle 2012a, f. 204; Vieira-Uribe & Moreno 2019, f. 9c, f. 9d.
DISTRIBUTION: *COL.
- TYPE: Colombia, *Escobar et al. 3380* (holotype, JAUM; isotypes, COL, MED, MO).
- Lepanthes oreibates*** Luer & R.Escobar, *Orquideología* 18(2): 133, 136. 1991.
ILLUSTRATION: Luer & Escobar 1991b, p. 134, p. 135(top); Luer & Thorerle 2012a, f. 205.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 14227* (holotype, MO; isotype, JAUM).
- Lepanthes orion*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 54(3): 316. 1985.
ILLUSTRATION: Luer 1996b, f. 174 (p. 228); Luer & Thorerle 2012a, f. 206.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 13354* (holotype, MO).
- Lepanthes ortiziana*** O.Pérez, E.Parra & Kolan., *Orquideología* 27(2): 222. 2011.
ILLUSTRATION: Pérez-Escobar *et al.* 2010b, p. 223, p. 224; Luer & Thorerle 2012a, f. 207; Baquero *et al.* 2021, f. 1f.
DISTRIBUTION: *COL.
TYPE: Colombia, *Pérez & Parra 752* (holotype, VALLE).
- Lepanthes oscillifera*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 53(1): 30. 1984.
ILLUSTRATION: Luer & Thorerle 2012a, f. 208; Moreno *et al.* 2021, f. 7c.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar & Valencia 2669* (holotype, SEL).
- Lepanthes osiris*** Luer & R.Escobar, *Orquideología* 19(2): 103. 1994.
ILLUSTRATION: Luer & Escobar 1994, f. 98 (p. 109); Luer & Thorerle 2012a, f. 209.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer & Escobar 8470* (holotype, SEL).
- Lepanthes ostraconopetala*** Luer & Hirtz, *Selbyana* 30(1): 11. 2009.
ILLUSTRATION: Luer 2009b, f. 20; Luer & Thorerle 2012a, f. 210.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 4630* (holotype, SEL).
- Lepanthes otara*** Luer, *Phytologia* 54: 359. 1983.
ILLUSTRATION: Luer 1996b, f. 176 (p. 228). Fig. 9A.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 7163* (holotype, SEL).
VOUCHER: Colombia, *Vieira 394* (JAUM).

- Lepanthes oxybaphon*** Luer & R.Escobar, Amer. Orchid Soc. Bull. 54(6): 734–736. 1985.
ILLUSTRATION: Luer & Thorerle 2012a, f. 211.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 10228* (holotype, JAUM; isotype, MO).
- Lepanthes oxypetala*** Luer & Hirtz, Orchidee (Hamburg) 39(2): 57. 1988.
ILLUSTRATION: Luer 1996b, f. 177 (p. 229); Luer & Thorerle 2012a, f. 212.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 11113* (holotype, MO).
VOUCHER: Colombia, *R.Escobar 5240* (MO).
- Lepanthes pachoi*** Luer & R.Escobar, Orquideología 19(2): 104. 1994.
ILLUSTRATION: Luer & Escobar 1994, f. 99 (p. 79), f. 99 (p. 109); Luer & Thorerle 2012a, f. 213.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 5015* (holotype, JAUM; isotype, MO).
- Lepanthes palaga*** Luer & R.Escobar, Amer. Orchid Soc. Bull. 53(6): 604. 1984.
ILLUSTRATION: Luer & Thorerle 2012a, f. 214.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar & Valencia 2651* (holotype, SEL).
- Lepanthes panope*** Luer & R.Escobar, Amer. Orchid Soc. Bull. 54(3): 318–321. 1985.
ILLUSTRATION: Luer & Thorerle 2012a, f. 215.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 10317* (holotype, MO).
- Lepanthes papyrophylla*** Rchb.f., Xenia Orchid. 1: 151. 1856.
ILLUSTRATION: Luer 1996b, f. 180 (p. 229).
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Jamieson 114* (holotype, W-R-0054562; isotype, K-L).
VOUCHER: Colombia, *Killip 20299* (US).
- Lepanthes paramosolensis*** S.Vieira-Uribe & B.T.Larsen, Orquideología 31(2): 96. 2014.
ILLUSTRATION: Vieira-Uribe & Larsen 2014b, f. 1, f. 2.
DISTRIBUTION: *COL.
TYPE: Colombia, *Domínguez & Pallandre 59* (holotype, JAUM).
- Lepanthes parmata*** Luer & R.Escobar, Orquideología 18(2): 136–138. 1991.
ILLUSTRATION: Luer & Escobar 1991b, p. 137; Luer & Thorerle 2012a, f. 216; Vieira-Uribe & Moreno 2018, f. 4a.
DISTRIBUTION: *COL.
TYPE: Colombia, *Cogollo et al. 4044* (holotype, JAUM; isotype, MO).
- Lepanthes pastoënsis*** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 12. 1924.
ILLUSTRATION: Luer & Thorerle 2012a, f. 217.
DISTRIBUTION: *COL.
TYPE: Colombia, *Klaboch s.n.* [holotype, B, destroyed; lectotype, tab. 33, n. 125 in Schlechter 1920 (Luer & Thorerle 2012)].
- Lepanthes pelyx*** Luer & Hirtz, Monogr. Syst. Bot. Missouri Bot. Gard. 61(3): 136–137. 1996.
ILLUSTRATION: Luer 1996b, f. 183 (p. 230); Vieira-Uribe & Moreno 2018, f. 4d. Fig. 9B.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 12431* (holotype, MO).
VOUCHER: *Moreno & Erazo 406* (CAUP).
- Lepanthes pambertonii*** S.Vieira-Uribe & J.S.Moreno, Phytotaxa 567 (2): 149–161. 2022.
ILLUSTRATION: Vieira *et al.* 2022, f. 1. Fig. 9C.
DISTRIBUTION: *COL.
TYPE: Colombia, *S. Vieira 29* (holotype, JAUM).
- Lepanthes penicillifera*** Luer, Selbyana 30(1): 11. 2009.
ILLUSTRATION: Luer 2003a, f. 5; Luer 2009b, f. 21; Luer & Thorerle 2012a, f. 218.
DISTRIBUTION: *COL.
TYPE: Colombia, *Niessen & Uribe 036A* (holotype, MO).
Note: Described from a cultivated specimen without collection data.
- Lepanthes perdita*** Luer & Hirtz, Monogr. Syst. Bot. Missouri Bot. Gard. 61(3): 138. 1996.
ILLUSTRATION: Luer 1996b, f. 185 (p. 231); Luer & Thorerle 2012a, f. 219.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Hirtz 2053* (holotype, MO).
VOUCHER: Colombia, *Otero 1005* (CUVC, MO).
- Lepanthes petalolenta*** Luer & R.Escobar, Orquideología 18(2): 139–141. 1991.
ILLUSTRATION: Luer & Escobar 1991b, p. 140; Luer & Thorerle 2012a, f. 220.
DISTRIBUTION: *COL.
TYPE: Colombia, *Cogollo et al. 3907* (holotype, JAUM; isotype, MO).

- Lepanthes petalopteryx*** Luer & R.Escobar, *Orquideología* 19(2): 106. 1994.
ILLUSTRATION: Luer & Escobar 1994, f. 100 (p. 80), f. 100 (p. 109); Luer & Thoele 2012a, f. 221; Moreno *et al.* 2020b, f. 4b, 5b.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 5061* (holotype, JAUM; isotype, MO).
- Lepanthes phalloides*** Luer & R.Escobar, *Orquideología* 21(2): 154–156. 1999.
ILLUSTRATION: Luer & Escobar 1999, p. 155; Luer & Thoele 2012a, f. 222.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 16728* (holotype, MO).
- Lepanthes pictoris*** Luer & Thoele, *Harvard Pap. Bot.* 16(2): 336, 33. 2011.
ILLUSTRATION: Luer & Thoele 2012a, f. 223.
DISTRIBUTION: *COL.
TYPE: Colombia, *Thoele 122A* (holotype, MO).
- Lepanthes pilosiaures*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 53(3): 262. 1984.
ILLUSTRATION: Luer & Thoele 2012a, f. 224.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar et al. 2663* (holotype, SEL).
- Lepanthes pinnatula*** Luer & R.Escobar, *Orquideología* 20(3): 307–308. 1997.
ILLUSTRATION: Luer & Escobar 1997, f. 126 (p. 306); Luer & Thoele 2012a, f. 225.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 17676* (holotype, MO).
- Lepanthes planadensis*** Luer & R.Escobar, *Orquideología* 18(2): 141–143. 1991.
ILLUSTRATION: Luer & Escobar 1991b, p. 142; Luer & Thoele 2012a, f. 226.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 12487* (holotype, MO).
- Lepanthes plectilis*** Luer & Hirtz, *Amer. Orchid Soc. Bull.* 54(2): 166. 1985.
ILLUSTRATION: Luer 1996b, f. 187 (p. 231); Luer & Thoele 2012a, f. 227.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Hirtz 1861* (holotype, MO).
VOUCHER: Colombia, *Luer 16254* (MO).
Note: Without collection data.
- Lepanthes pleurorachis*** Luer, *Phytologia* 54(5): 363. 1983.
ILLUSTRATION: Luer 1996b, f. 188 (p. 231); ; Luer & Thoele 2012a, f. 228; Moreno *et al.* 2020b, f. 4c, 5c.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 7373* (holotype, SEL).
VOUCHER: Colombia, *Luer 13027* (MO).
- Lepanthes pleurothallopsis*** Luer & R.Escobar, *Orquideología* 19(2): 107. 1994.
ILLUSTRATION: Luer & Escobar 1994, f. 101 (p. 80), f. 101 (p. 110); Luer & Thoele 2012a, f. 229.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 5007* (holotype, MO).
- Lepanthes plumifera*** Luer, *Phytologia* 55: 190. 1984.
ILLUSTRATION: Luer 1996b, f. 189 (p. 232). Fig. 9E.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 5542* (holotype, SEL).
VOUCHER: A photo of a Colombian specimen is reproduced herein (Fig. 9E).
- Lepanthes pogonochila*** Zuluaga, Alegria-Valencia, J.S.Moreno & Gal.–Tar., *Harvard Pap. Bot.* 26(1): 181–182. 2021.
ILLUSTRATION: Moreno *et al.* 2021, f. 7a, f. 8, f. 9. Fig. 9D.
DISTRIBUTION: *COL.
TYPE: Colombia, *Galindo-Tarazona et al. 1523* (holotype, CUVU).
- Lepanthes popayanensis*** Luer & R.Escobar, *Orquideología* 21(2): 156–158. 1999.
ILLUSTRATION: Luer & Escobar 1999, p. 157; Luer & Thoele 2012a, f. 230.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 16531* (holotype, MO).
- Lepanthes porracea*** Luer & R.Escobar, *Orquideología* 20(3): 309–310. 1997.
ILLUSTRATION: Luer & Escobar 1997, f. 127 (p. 312), p. 301 (middle left); Luer & Thoele 2012a, f. 231.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar s.n.* (holotype, JAUM; isotype, MO).
Note: The holotype is *Escobar s.n.* according to the protologue, but Luer & Thoele (2012a) indicate the type as *Luer 17721* which is Luer's illustration number.
- Lepanthes posadae*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 53(5): 479. 1984.
ILLUSTRATION: Luer 1996b, f. 191 (p. 232); Luer & Thoele 2012a, f. 232.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Luer 8743* (holotype, SEL).

- Lepanthes praemorsa*** Luer & R.Escobar, *Orquideología* 18(2): 143–145. 1991.
ILLUSTRATION: Luer & Escobar 1991b, p. 144; Luer & Thorerle 2012a, f. 233; Moreno *et al.* 2022b, f. 3b.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al.* 14207 (holotype, MO).
- Lepanthes profusa*** Luer & Hirtz, *Orchidee* (Hamburg) 41(1): 10. 1990.
ILLUSTRATION: Luer & Thorerle 2012a, f. 234.
DISTRIBUTION: BOL COL ECU.
TYPE: Ecuador, *Luer et al.* 10751 (holotype, MO).
- Lepanthes prolifera*** Foldats, *Bol. Soc. Venez. Ci. Nat.* 28: 247. 1969.
ILLUSTRATION: Luer & Thorerle 2012a, f. 235.
DISTRIBUTION: *COL.
TYPE: Venezuela, *Steryermark & Dunsterville 101198* (holotype, VEN).
VOUCHER: Colombia, *Luer 7996* (SEL).
- Lepanthes pteropogon*** Rchb.f., *Xenia Orchid.* 1: 146. 1856.
ILLUSTRATION: Luer 1996b, f. 195 (p. 233).
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Jamieson 113* (holotype, W-R-54545; isotype, K-L).
VOUCHER: Colombia, *Franco-Rosselli 699* (COL).
- Lepanthes pterygion*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 53(7): 720. 1984.
ILLUSTRATION: Luer & Thorerle 2012a, f. 236.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar & Valencia 2610* (holotype, SEL).
- Lepanthes pyramidalis*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 53(6): 607. 1984.
ILLUSTRATION: Luer & Thorerle 2012a, f. 237.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al.* 8964 (holotype, SEL).
- Lepanthes quadricornis*** Luer & R.Escobar, *Orquideología* 19(2): 108. 1994.
ILLUSTRATION: Luer & Escobar 1994, f. 102 (p. 110); Luer 1996b, f. 7 (p. 11); Luer & Thorerle 2012a, f. 238; Baquero & Monteros 2020, f. 1d.
DISTRIBUTION: *COL.
TYPE: Colombia, *Dodson et al.* 18060 (holotype, MO).
- Lepanthes quandi*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 53(9): 924. 1984.
ILLUSTRATION: Luer & Thorerle 2012a, f. 239.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al.* 10059 (holotype, MO).
- Lepanthes quaternaria*** Luer, *Phytologia* 54: 367. 1983.
ILLUSTRATION: Luer 1996b, f. 198 (p. 234). Fig. 9F.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al.* 6307 (holotype, SEL).
VOUCHER: Colombia, *Galindo et al.* 1476 (CUVC).
- Lepanthes ramosii*** Luer, *Orquideología* 22(1): 45–47. 2001.
ILLUSTRATION: Luer 2001b, p. 47; Luer & Thorerle 2012a, f. 240.
DISTRIBUTION: *COL.
TYPE: Colombia, *Ramos & Silverstone-Sopkin 1176* (holotype, CUVC; isotype, MO).
- Lepanthes reburra*** Luer & Thorerle, *Harvard Pap. Bot.* 16(2): 333. 2011.
ILLUSTRATION: Luer & Thorerle 2012a, f. 241.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al.* 7801 (holotype, SEL).
- Lepanthes refracta*** Luer, *Orquideología* 22(1): 48–50. 2001.
ILLUSTRATION: Luer 2001b, p. 49; Luer & Thorerle 2012a, f. 242.
DISTRIBUTION: *COL.
TYPE: Colombia, *Niessen 071A* (holotype, MO).
Note: Without collection data.
- Lepanthes renzii*** Luer, *Selbyana* 30(1): 13. 2009.
ILLUSTRATION: Luer & Thorerle 2012a, f. 243.
DISTRIBUTION: *COL.
TYPE: Colombia, *Renz 3527* (holotype, BAS; isotype, MO).
- Lepanthes repens*** Luer, *Phytologia* 54(5): 368. 1983.
ILLUSTRATION: Luer 1996b, f. 199 (p. 234); Luer & Thorerle 2012a, f. 244.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al.* 6261 (holotype, SEL).
- Lepanthes reticulata*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 53(6): 608. 1984.
ILLUSTRATION: Luer & Thorerle 2012a, f. 245.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar & Valencia 2650* (holotype, SEL).
- Lepanthes rhombipetala*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 7: 98. 1920.
ILLUSTRATION: Mansfeld 1929, pl. 33 (n. 127); Luer 1996b, f. 202 (p. 235); Luer & Thorerle 2012a, f. 246.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Madero s.n.* [holotype, B,

- destroyed; lectotype, tab. 33, n. 127 in Schlechter 1920 (Luer & Thorerle 2012)].
- Lepanthes rhynchion*** Luer, *Phytologia* 54(5): 368. 1983.
ILLUSTRATION: Luer 1996b, f. 203 (p. 235); Luer & Thorerle 2012a, f. 247.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al.* 3333 (holotype, MO).
- Lepanthes ribes*** Luer, *Selbyana* 3(1–2): 14. 1976.
ILLUSTRATION: Luer 1996b, f. 8 (p. 11); Luer & Thorerle 2012a, f. 248; Baquero & Monteros 2020, f. 1e.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer & Kent* 233 (holotype, SEL).
VOUCHER: Colombia, *Luer* 8075 (JAUM).
- Lepanthes ricaurtensis*** Luer & R.Escobar, *Orquideología* 19(2): 111. 1994.
ILLUSTRATION: Luer & Escobar 1994, f. 103 (p. 110); Luer & Thorerle 2012a, f. 249.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al.* 4622 (holotype, SEL).
- Lepanthes rodrigo*** Luer, *Orquideología* 20(2): 198–201. 1996.
ILLUSTRATION: Luer 1996f, 199; Luer & Thorerle 2012a, f. 250.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar et al.* *s.n.* (holotype, JAUM).
- Lepanthes roezliana*** Luer & R.Escobar, *Orquideología* 17(3): 216. 1988.
ILLUSTRATION: Luer & Escobar 1988, p. 217; Luer & Thorerle 2012a, f. 251.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al.* 9093 (holotype, SEL).
- Lepanthes rutkisii*** Foldats, *Acta Bot. Venez.* 3: 344. 1968.
ILLUSTRATION: Foldats 1968, f. 13. Fig. 10K.
DISTRIBUTION: COL VEN.
TYPE: Venezuela, *Steyermark & Dunsterville* 98322 (holotype, VEN).
VOUCHER: A photographic voucher of a Colombian specimen reproduced here (Fig. 10K).
- Lepanthes rutrum*** Luer & R.Escobar, *Orquideología* 19(2): 112. 1994.
ILLUSTRATION: Luer & Escobar 1994, f. 104 (p. 80), f. 104 (p. 110); Luer & Thorerle 2012a, f. 252.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar et al.* 4005 (holotype, MO; isotype JAUM).
- Lepanthes sabinadaleyana*** J.S.Moreno & S.Vieira-Uribe, *Lankesteriana* 19(2): 64. 2019.
ILLUSTRATION: Vieira-Uribe & Moreno 2019, f. 1–3, f. 4a. Fig. 9G.
DISTRIBUTION: *COL.
TYPE: Colombia, *Moreno et al.* 519 (holotype, JAUM; isotype CAUP).
- Lepanthes saccata*** Luer & R.Escobar, *Orquideología* 17(3): 220–223. 1988.
ILLUSTRATION: Luer & Escobar 1988, p. 221; Luer & Thorerle 2012a, f. 253.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar et al.* 3405 (holotype, MO).
- Lepanthes saltatrix*** Luer & Hirtz, *Monogr. Syst. Bot. Missouri Bot. Gard.* 61(3): 150. 1996.
ILLUSTRATION: Luer 1996b, f. 207 (p. 236). Fig. 9H.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al.* 12424 (holotype, MO).
VOUCHER: Colombia, *de Benavides* 10301 (CAUP).
- Lepanthes sanjuanensis*** Bogarín & Karremans, *Lankesteriana* 12(2): 113–114, f. 3, 4C. 2012.
ILLUSTRATION: Bogarín *et al.* 2012, f. 3, f. 4C. Fig. 9I.
DISTRIBUTION: COL COS PAN.
TYPE: Costa Rica, *Bogarín & Karremans* 9234 (holotype, JBL-spirit; isotype, CR).
VOUCHER: Colombia, *Moreno & Erazo* 395 (CAUP).
- Lepanthes satyrica*** Luer & Hirtz, *Lindleyana* 2(3): 141. 1987.
ILLUSTRATION: Luer 1996b, f. 208 (p. 236); Luer & Escobar 1999, p. 139; Luer & Thorerle 2012a, f. 254; Baquero *et al.* 2019, f. 4d.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al.* 12430 (holotype, MO).
- Lepanthes scalaris*** Luer, *Phytologia* 54(5): 369. 1983.
ILLUSTRATION: Luer 1996b, f. 209 (p. 237); Luer & Thorerle 2012a, f. 255.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al.* 6255 (holotype, SEL).
- Lepanthes schizix*** Luer, *Phytologia* 54: 370 (1983).
ILLUSTRATION: Luer 1996b, f. 212 (p. 237). Fig. 9J.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al.* 4411 (holotype, MO).
VOUCHER: A photographic voucher of a Colombian specimen reproduced in Galindo *et al.* 2020, p. 205.
- Lepanthes schlechteriana*** J.M.H. Shaw, *Orchid Review Suppl.*, 124(1314): 37. 2016. *Lepanthes mar-*

- ginata* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 96. 1920, *nom. illeg.* Non *Lepanthes marginata* Barb.Rodr. [1881].
ILLUSTRATION: Mansfeld 1929, pl. 33 (n. 124).
DISTRIBUTION: *COL.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 33, No. 124)].
- Lepanthes schnitteri*** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 160. 1924.
DISTRIBUTION: *COL.
TYPE: Colombia, *Schnitter s.n.* [holotype, B, destroyed; lectotype (selected here), AMES-00100703, drawing of type].
Note: An obscure taxon.
- Lepanthes scoliosa*** Luer & Hirtz, Harvard Pap. Bot. 17: 352. 2012.
ILLUSTRATION: Luer & Thorerle 2012b, f. 24. Fig. 10L.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Hirtz & Gonzalez 1031* (holotype, MO).
VOUCHER: Colombia, *Zuluaga 4932* (CUVC).
- Lepanthes scopulifera*** Luer & R.Escobar, Orquideología 20(3): 310–311. 1997.
ILLUSTRATION: Luer & Escobar 1997, f. 128 (p. 312); Luer & Thorerle 2012a, f. 256.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 17664* (holotype, MO).
- Lepanthes sericinifens*** Luer & R.Escobar, Amer. Orchid Soc. Bull. 53(10): 1048. 1984.
ILLUSTRATION: Luer & Thorerle 2012a, f. 257.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 10032* (holotype, MO; isotype, SEL).
- Lepanthes series*** Luer & Hirtz, Lindleyana 2: 105 (1987).
ILLUSTRATION: Luer 1996b, f. 216 (p. 238). Fig. 10H.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 10864* (holotype, MO).
VOUCHER: Colombia, *Rincón-Gonzalez 1438* (TOLD).
- Lepanthes setifera*** Luer & R.Escobar, Amer. Orchid Soc. Bull. 53(8): 822. 1984.
ILLUSTRATION: Luer 1996b, f. 217 (p. 239); Luer & Thorerle 2012a, f. 258.
DISTRIBUTION: COL ECU GUA.
- TYPE: Ecuador, *Luer et al. 9863* (holotype, MO).
VOUCHER: Colombia, *Escobar 3190* (JAUM, MO, SEL).
- Lepanthes silverstonei*** Luer, Orquideología 22(1): 50–53. 2001.
ILLUSTRATION: Luer 2001b, p. 51; Luer & Thorerle 2012a, f. 259.
DISTRIBUTION: *COL.
TYPE: Colombia, *Silverstone-Sopkin 2864* (holotype, CUVC; isotype, MO).
- Lepanthes sinuosa*** Luer & R.Escobar, Orquideología 19(2): 113–115. 1994.
ILLUSTRATION: Luer & Escobar 1994, f. 105 (p. 80), f. 105 (p. 117); Luer & Thorerle 2012a, f. 260; Moreno *et al.* 2022b, f. 6d.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 16846* (holotype, MO).
- Lepanthes skeleton*** Luer & R.Escobar, Amer. Orchid Soc. Bull. 53(7): 722. 1984.
ILLUSTRATION: Luer & Thorerle 2012a, f. 261.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar & Valencia 3231* (holotype, MO; isotypes, COL, JAUM, SEL).
- Lepanthes smaragdina*** Luer & R.Escobar, Orquideología 19(2): 115. 1994.
ILLUSTRATION: Luer & Escobar 1994, f. 106 (p. 80), f. 106 (p. 117); Luer & Thorerle 2012a, f. 262; Baquero *et al.* 2021, f. 1b, f. 4b, f. 4d.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 5083* (holotype, JAUM; isotype, MO).
- Lepanthes solicator*** Luer & R.Escobar, Amer. Orchid Soc. Bull. 54(1): 58. 1985.
ILLUSTRATION: Luer & Thorerle 2012a, f. 263.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 10328* (holotype, MO).
- Lepanthes speciosa*** Luer & Hirtz, Orchidee (Hamburg) 43: 67. 1992.
ILLUSTRATION: Luer 1996b, f. 222 (p. 240). Fig. 9K.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 9884* (holotype, MO).
VOUCHER: Colombia, *Galindo & Espitia 1526* (CUVC).
- Lepanthes spelynx*** Luer & R.Escobar, Amer. Orchid Soc. Bull. 54: 586. 1985.
ILLUSTRATION: Luer & Thorerle 2012a, f. 264.
DISTRIBUTION: *COL.

- TYPE: Colombia, *Luer et al. 10329* (holotype, JAUM; isotype, MO).
- Lepanthes stelidantha*** Garay & Dunst., Venez. Orchid. III. Vol. 1. 6: 202. 1976.
DISTRIBUTION: COL VEN.
TYPE: Venezuela, *Dunsterville 67* (holotype, AMES).
VOUCHER: Colombia, *Delgado-V. 69* (FMB).
- Lepanthes stelidilabia*** Luer & R.Escobar, Orquideología 18(2): 146–148. 1991.
ILLUSTRATION: Luer & Escobar 1991b, p. 144; Luer & Thorerle 2012a, f. 265.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 14229* (holotype, MO).
- Lepanthes stellaris*** Luer & Hirtz, Monogr. Syst. Bot. Missouri Bot. Gard. 115: 249–250. 2009.
ILLUSTRATION: Luer 2009a, f. 11 (p. 255); Luer & Thorerle 2012a, f. 266; Pérez-Escobar *et al.* 2010a, f. 1, f. 2.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Hirtz 8270* (holotype, MO).
VOUCHER: Colombia, *Pérez 240* (VALLE).
- Lepanthes stenoscleros*** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 99. 1920.
ILLUSTRATION: Mansfeld 1929, Pl. 34 (n. 128).
DISTRIBUTION: *COL.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 34, No. 128)].
Note: An obscure taxon not monographed by Luer.
- Lepanthes steyermarkii*** Foldats, Acta Bot. Venez. 3: 346. 1968.
ILLUSTRATION: Luer & Thorerle 2012a, f. 267.
DISTRIBUTION: COL VEN.
TYPE: Venezuela, *Steyermark et al. 98381* (holotype, VEN).
VOUCHER: Colombia, *Luer et al. 10297*.
- Lepanthes strumosa*** Luer & R.Escobar, Orquideología 16(2): 151. 1984.
ILLUSTRATION: Luer & Escobar 1984a, p. 152; Luer & Thorerle 2012a, f. 268; Luer 1996b, f. 226 (p. 241).
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Escobar & Valencia 2625* (holotype, SEL).
- Lepanthes stupenda*** Luer, Phytologia 54(5): 372. 1983.
ILLUSTRATION: Luer & Thorerle 2012a, f. 269.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 6042* (holotype, SEL).
VOUCHER: Colombia, *Escobar 5023* (MO).
- Lepanthes subulata*** Luer & R.Escobar, Amer. Orchid Soc. Bull. 53(6): 609. 1984.
ILLUSTRATION: Luer & Thorerle 2012a, f. 270.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar & Valencia 2624* (holotype, SEL).
- Lepanthes superposita*** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 99. 1920.
ILLUSTRATION: Luer & Thorerle 2012a, f. 271.
DISTRIBUTION: *COL.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype, tab. 34, n. 129 in Schlechter 1920 (Luer & Thorerle 2012a)].
- Lepanthes surrogata*** Luer & Hirtz.
ILLUSTRATION: Luer 1996b, f. 230 (p. 242).
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 11910* (holotype, MO).
VOUCHER: Colombia, *Moreno 531* (CUVC).
- Lepanthes sylvilagus*** E.Restrepo & S.Vieira-Uribe, Lankesteriana 22(1): 2. 2022.
ILLUSTRATION: Restrepo *et al.* 2022, f. 1, f. 2, f. 3a–b. Fig. 9L.
DISTRIBUTION: *COL.
TYPE: Colombia, *Vieira-Uribe 53* (holotype, JAUM-spirit).
- Lepanthes tachirensis*** Foldats, Acta Bot. Venez. 3: 348. 1968.
ILLUSTRATION: Luer 1996b, f. 233 (p. 243); Luer & Thorerle 2012a, f. 272.
DISTRIBUTION: COL ECU PER VEN.
TYPE: Venezuela, *Steyermark & Dunsterville 98524* (holotype, VEN).
VOUCHER: Colombia, *Luer 17682* (MO).
- Lepanthes tamaensis*** Foldats, Acta Bot. Venez. 3: 351. 1968.
ILLUSTRATION: Luer & Thorerle 2012a, f. 273.
DISTRIBUTION: COL VEN.
TYPE: Venezuela, *Steyermark & Dunsterville 98658* (holotype, VEN).
VOUCHER: Colombia, *Luer 14268* (MO).
- Lepanthes tanekes*** Luer & R.Escobar, Orquideología 18(2): 148. 1991.
ILLUSTRATION: Luer & Escobar 1991b, p. 149; Luer & Thorerle 2012a, f. 274.

- DISTRIBUTION: *COL.
 TYPE: Colombia, *Hirtz et al.* 4625 (holotype, SEL).
- Lepanthes tatamae*** S.Vieira-Uribe & J.S.Moreno, *Orquideología* 35(2): 184. 2018.
 ILLUSTRATION: Vieira-Uribe & Moreno 2018, f. 5, f. 6. Fig. 10A.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Vieira et al.* 25 (holotype, JAUM).
- Lepanthes telipogoniflora*** Schuit. & A.de Wilde, *Orquideología* 20: 27. 1996.
 ILLUSTRATION: Schuiteman & de Wilde 1996, p. 29, p. 31; Luer & Thorerle 2012a, f. 275.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *de Wilde et al.* 5010 (holotype, JAUM).
- Lepanthes tetrachaeta*** Luer & L.Jost, *Monogr. Syst. Bot. Missouri Bot. Gard.* 79: 119. 2000.
 ILLUSTRATION: Luer 2011, f. 26a (p. 135). Fig. 10B.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Jost & Souther* 1806 (holotype, MO).
 VOUCHER: Colombia, *Moreno* 527 (CAUP).
- Lepanthes tetracola*** Luer & R.Escobar, *Orquideología* 19(2): 116. 1994.
 ILLUSTRATION: Luer & Escobar 1994, f. 107 (p. 117); Luer & Thorerle 2012a, f. 276.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer* 16875 (holotype, MO).
- Lepanthes tibouchinicola*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 52: 1269. 1983.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 277.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar & Valencia* 2660 (holotype, SEL).
- Lepanthes tomentosa*** Luer, *Lindleyana* 6(2): 76, 79. 1991.
 ILLUSTRATION: Ortiz *et al.* 2011, p. 23, p. 24; Luer & Thorerle 2012a, f. 278; Baquero *et al.* 2021, f. 1d.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer* 13786 (holotype, MO).
- Lepanthes tortilis*** Luer & Hirtz, *Monogr. Syst. Bot. Missouri Bot. Gard.* 61(3): 170. 1996.
 ILLUSTRATION: Luer 1996b, f. 242 (p. 245). Fig. 10C.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al.* 12445 (holotype, MO).
 VOUCHER: Colombia, *Zuluaga* 5636 (CUVC).
- Lepanthes tracheia*** Rchb.f., *Flora* 69: 557. 1886.
 ILLUSTRATION: Luer 1996b, f. 243 (p. 245); Luer & Thorerle 2012a, f. 279.
 DISTRIBUTION: COL ECU VEN.
 TYPE: Colombia, *Lehmann* 3562 [lectotype, W-R-54518 (Luer & Thorerle 2012); isolectotype, BM-000082181].
- Lepanthes transparens*** Luer, *Phytologia* 54(5): 374. 1983.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 280.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al.* 6260 (holotype, SEL).
 VOUCHER: Colombia, *Luer* 8381 (SEL).
- Lepanthes trichocaulis*** Luer & R.Escobar, *Orquideología* 17(3): 224–226. 1988.
 ILLUSTRATION: Luer & Escobar 1988, p. 227; Luer & Thorerle 2012a, f. 281.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar* 3245 (holotype, MO).
- Lepanthes trifurcata*** Luer & R.Escobar, *Orquideología* 19(2): 119. 1994.
 ILLUSTRATION: Luer & Escobar 1994, f. 108 (p. 80), f. 108 (p. 117); Luer & Thorerle 2012a, f. 282.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer* 16720 (holotype, MO).
- Lepanthes trimerinx*** Luer, *Phytologia* 54(5): 374. 1983.
 ILLUSTRATION: Luer 1996b, f. 245 (p. 246); Luer & Thorerle 2012a, f. 283.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer* 1019 (holotype, SEL).
 VOUCHER: Colombia, *Ramos* 954 (MO).
- Lepanthes trinaria*** Luer & R.Escobar, *Orquideología* 20(3): 311. 1997.
 ILLUSTRATION: Luer & Escobar 1997, f. 129 (p. 312), p. 301 (bottom right); Luer & Thorerle 2012a, f. 284.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer* 17530 (holotype, MO).
- Lepanthes troglodytes*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 54(3): 320–321. 1985.
 ILLUSTRATION: Luer & Thorerle 2012a, f. 285.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer* 10031 (holotype, JAUM; isotype, MO).
- Lepanthes troxis*** Luer & R.Escobar, *Orquideología* 18(2): 150–152. 1991.
 ILLUSTRATION: Luer & Escobar 1991b, p. 135

- (bottom), p. 151; Luer & Thorerle 2012a, f. 286.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 10366* (holotype, MO; isotype JAUM).
- Lepanthes tsubotae*** Luer & R.Escobar, *Orquideología* 19(1): 39. 1993.
ILLUSTRATION: Luer & Escobar 1993a, p. 20 (middle above), p. 29 (right); Luer & Thorerle 2012a, f. 287.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 15261* (holotype, MO).
- Lepanthes umbonata*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 53(10): 1050–1051. 1984.
ILLUSTRATION: Luer & Thorerle 2012a, f. 288a, f. 288b.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 3206* (holotype, MO; isotype JAUM).
- Lepanthes uncifera*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 53: 580. 1984.
ILLUSTRATION: Luer & Thorerle 2012a, f. 289.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar & Valencia 2668* (holotype, SEL).
- Lepanthes uribei*** Luer, *Revista Soc. Boliv. Bot.* 4(1): 11. 2003.
ILLUSTRATION: Luer & Thorerle 2012a, f. 290.
DISTRIBUTION: *COL.
TYPE: Colombia, *Niessen & Uribe 095* (holotype, MO).
- Lepanthes valenciae*** Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 53: 825. 1984.
ILLUSTRATION: Luer & Thorerle 2012a, f. 291.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 3185A* (holotype, MO).
- Lepanthes valerieae*** O.Pérez, Jaramillo & Bogarín, *Lankesteriana* 21(3): 356. 2021.
ILLUSTRATION: Pérez-Escobar *et al.* 2021, f. 3, f. 4. Fig. 10E.
DISTRIBUTION: *COL.
TYPE: Colombia, *Pérez et al. 1981* (holotype, CUVIC).
- Lepanthes vareschii*** Garay, *Canad. J. Bot.* 34: 252. 1956.
ILLUSTRATION: Garay 1956a, f. 11A.
DISTRIBUTION: COL VEN.
TYPE: Venezuela, *Vareschi 2306* (holotype, AMES-3473; isotype, VEN).
VOUCHER: Colombia, *Schneider 672* (COL).
- Lepanthes vargasii*** J.S.Moreno, S.Vieira-Urbe & Karremans, *Lankesteriana* 17(2): 227. 2017.
ILLUSTRATION: Moreno *et al.* 2017, f. 1, 2. Fig. 10F.
DISTRIBUTION: *COL.
TYPE: Colombia, *Moreno & Erazo 342* (holotype, CAUP).
- Lepanthes vellicata*** Luer & Hirtz, *Monogr. Syst. Bot. Missouri Bot. Gard.* 61(3): 177, f. 254. 1996.
ILLUSTRATION: Luer 1996b, f. 254 (p. 248); Luer & Thorerle 2012a, f. 292.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 12419* (holotype, MO).
VOUCHER: Colombia, *Luer 16735* (MO).
- Lepanthes vespertilio*** Rchb.f., *Xenia Orchid.* 1: 143. 1856.
ILLUSTRATION: Luer 1996b, f. 256 (p. 248). ig. 10I.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Jamieson 96* (holotype, W-R-0054345; isotype, K-L).
VOUCHER: Colombia, *Pennel 10497* (US).
- Lepanthes venusta*** Luer & R.Escobar, *Orquideología* 19(2): 120. 1994.
ILLUSTRATION: Luer & Escobar 1994, f. 109 (p. 118); Luer & Escobar 1999, p. 137; Luer & Thorerle 2012a, f. 293.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 16839* (holotype, MO).
- Lepanthes viahoënsis*** Luer & R.Escobar, *Orquideología* 20(3): 311–313. 1997.
ILLUSTRATION: Luer & Escobar 1997, f. 130 (p. 312), p. 301 (top left); Luer & Thorerle 2012a, f. 294; Moreno *et al.* 2020b, f. 4d, 5d.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 17719* (holotype, MO).
- Lepanthes vibrissa*** Luer & Hirtz, *Lindleyana* 2(3): 155. 1987.
ILLUSTRATION: Luer 1996b, f. 258 (p. 249); Luer & Thorerle 2012a, f. 295.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 11263* (holotype, MO).
VOUCHER: Colombia, *Luer 17666* (MO).
- Lepanthes vieirae*** Luer & R.Escobar, *Orquideología* 17(3): 228–231. 1988.
ILLUSTRATION: Luer & Escobar 1988, p. 231; Luer & Thorerle 2012a, f. 296.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 10393* (holotype, MO).

- Lepanthes volvox*** Luer & R.Escobar, Amer. Orchid Soc. Bull. 53: 481. 1984.
ILLUSTRATION: Luer & Thorerle 2012a, f. 297.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 3194* (holotype, MO; isotype, JAUM).
- Lepanthes wagneri*** Rchb.f., Bonplandia (Hannover) 3: 70. 1855.
ILLUSTRATION: Luer 1996b, f. 260 (p. 249); Luer & Thorerle 2012a, f. 298; Vieira-Uribe & Moreno 2019, f. 4c.
DISTRIBUTION: BOL COL ECU PER VEN.
TYPE: Colombia, *Wagner s.n.* (holotype, W; isotype K).
- Lepanthes wakemaniae*** S.Vieira-Uribe & J.S.Moreno, Lankesteriana 22(1): 54. 2022.
ILLUSTRATION: Vieira-Uribe & Moreno 2022, f. 1, f. 2, f. 5a, f. 6a. Fig. 10G.
DISTRIBUTION: *COL.
TYPE: Colombia, *Vieira & Pérez 027* (holotype, JAUM; isotype, HUA).
- Lepanthes xenos*** Luer & Hirtz, Orchidee (Hamburg) 38: 32. 1987.
ILLUSTRATION: Luer 1996b, f. 261 (p. 250). Fig. 10D.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 9582* (holotype, MO).
VOUCHER: A photo of a Colombian specimen is reproduced herein (Fig. 10D).
- Lepanthes yubarta*** E.Calderón ex Luer & Thorerle, Monogr. Syst. Bot. Missouri Bot. Gard. 123: 217–218. 2012. *Lepanthes yubarta* E.Calderón, Orquideología 27: 200. 2010 [2011], *nom. inval.*
ILLUSTRATION: Calderón-Sáenz 2010, f. 1, f. 2, p. 202; Luer & Thorerle 2012a, f. 299.
DISTRIBUTION: *COL.
TYPE: Colombia, *Calderón 602* (holotype, HPUJ-027414).
Note: This taxon was originally published invalidly for not specifying a single specimen as holotype. It was unintentionally validated by Luer & Thorerle (2012a) who provided a direct reference and clearly indicated a holotype.
- Lepanthes zapatae*** Luer & R.Escobar, Orquideología 19(2): 121. 1994.
ILLUSTRATION: Luer & Escobar 1994, f. 110 (p. 79), f. 110 (p. 118); Luer & Thorerle 2012a, f. 300.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 16724* (holotype, MO).
- LEPANTHOPSIS (Cogn.) Ames
- Lepanthopsis abbreviata*** Luer & Hirtz, Monogr. Syst. Bot. Missouri Bot. Gard. 39: 8. 1991.
ILLUSTRATION: Luer 1991a, pl. 1 (p. 9).
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Hirtz 1524* (holotype, MO).
VOUCHER: Colombia, *Luer 2176* (SEL).
- Lepanthopsis acetabulum*** Luer, Phytologia 55(3): 196–197. 1984.
ILLUSTRATION: Luer 1991a, pl. 2 (p. 11).
DISTRIBUTION: BOL COL ECU PER.
TYPE: Ecuador, *Dalström 417* (holotype, SEL).
VOUCHER: Colombia, *Luer 14270* (MO).
- Lepanthopsis acuminata*** Ames, Bot. Mus. Leaflet 6(4): 70. 1938.
ILLUSTRATION: Luer 1991a, pl. 3 (p. 13).
DISTRIBUTION: COL ECU VEN.
TYPE: Colombia, *Killip 11298* (holotype, AMES).
- Lepanthopsis apoda*** (Garay & Dunst.) Luer, Selbyana 7(1): 100. 1982. *Lepanthopsis apoda* (Garay & Dunst.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 39: 68. 1991, *nom. superfl.* *Expedicula apoda* (Garay & Dunst.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 308. 2005. *Pleurothallis apoda* Garay & Dunst., Venez. Orchid. Ill. Vol. 1. 3: 246. 1965. *Trichosalpinx apoda* (Garay & Dunst.) Luer, Phytologia 54(5): 394. 1983.
ILLUSTRATION: Luer 1991a, pl. 33 (p. 69); Vásquez & Ibisch 2000, pl. 56; Ortiz & Medina 2012, f. 3, f. 4.
DISTRIBUTION: BOL COL ECU VEN.
TYPE: Venezuela, *Dunsterville 506* (holotype, AMES).
VOUCHER: Colombia, *Luer 14333* (MO).
- Lepanthopsis astrophora*** (Rchb.f. ex Kraenzl.) Garay, Caldasia 8: 520. 1962. *Pleurothallis astrophora* Rchb.f. ex Kraenzl., Xenia Orchid. 3: 85. 1892.
ILLUSTRATION: Luer 1991a, pl. 6 (p. 19).
DISTRIBUTION: COL VEN.
TYPE: Venezuela, *Wendland s.n.* (holotype, W).
VOUCHER: Colombia, *Ospina 82* (JAUM).
- Lepanthopsis dewildei*** Luer & R.Escobar, Monogr. Syst. Bot. Missouri Bot. Gard. 52: 116. 1994. *Expedicula dewildei* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 308. 2005.
ILLUSTRATION: Luer 1991a, pl. 38 (p. 117).
DISTRIBUTION: *COL.
TYPE: Colombia, *de Wilde 4436* (holotype, MO).



FIGURE 6. **A.** *Lepanthes aculeata*. **B.** *L. agatarum*. **C.** *L. anchicayae*. **D.** *L. ankistra*. **E.** *L. astraea*. **F.** *L. botivana*. **G.** *L. calochroma*. **H.** *L. campodostele*. **I.** *L. campitica*. **J.** *L. carinata*. **K.** *L. cardenasii*. **L.** *L. celox*. Photographs by S. Moreno (A–C, G, I, K) and S. Viera-Uribe (D–F, H, J).



FIGURE 7. **A.** *Lepanthes cyrtostele*. **B.** *L. cissyana*. **C.** *L. davidii*. **D.** *L. decurva*. **E.** *L. delhierroi*. **F.** *L. dorae*. **G.** *L. doug-darlingii*. **H.** *L. elegantula*. **I.** *L. farallonensis*. **J.** *L. fimbriatilabia*. **K.** *L. florenciana*. **L.** *L. gloriae*. Photographs by S. Moreno (A, C, D, F, H, J, K), S. Vieira-Uribe (B, E, G, L), and Robinson Galindo (I).

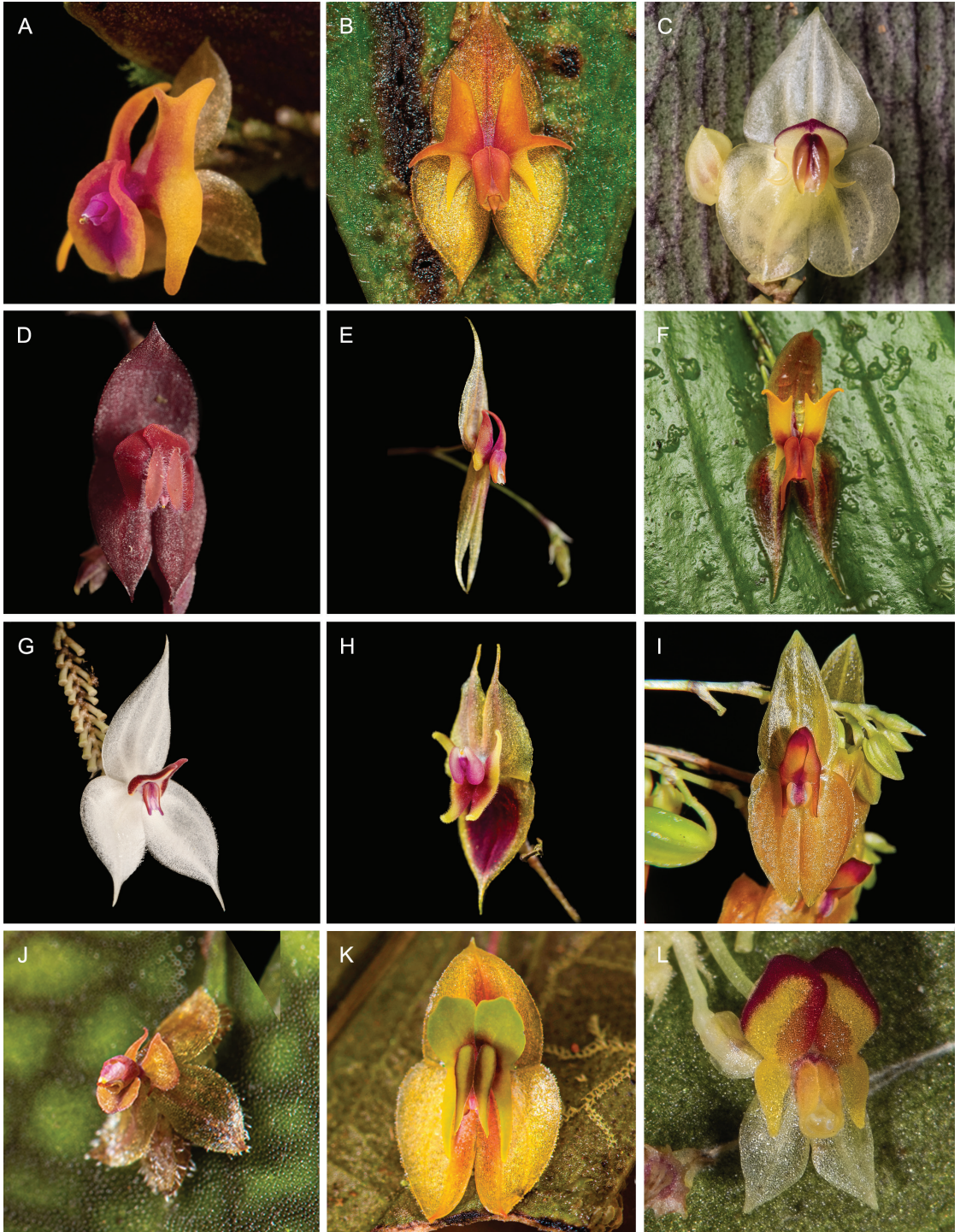


FIGURE 8. **A.** *Lepanthes hwangiae*. **B.** *L. irmae*. **C.** *L. jostii*. **D.** *L. jucas*. **E.** *L. kokonuko*. **F.** *L. licrophora*. **G.** *L. magnifica*. **H.** *L. marielana*. **I.** *L. menatoi*. **J.** *L. microcalodyction*. **K.** *L. montezumae*. **L.** *L. morae*. Photographs by S. Moreno (B–E, G, J–L), S. Vieira-Uribe (A, F, H) and M. Sierra-Ariza (I).



FIGURE 9. **A.** *Lepanthes otara*. **B.** *L. pelyx*. **C.** *L. pembertonii*. **D.** *L. pogonochila*. **E.** *L. plumifera*. **F.** *L. quaternaria*. **G.** *L. sabinadaleyana*. **H.** *L. saltatrix*. **I.** *L. sanjuanensis*. **J.** *L. schizix*. **K.** *L. speciosa*. **L.** *L. sylvilagus*. Photographs by S. Moreno (B, D–F, I, K), and S. Vieira-Uribe (A, C, G, H, J, L).



FIGURE 10. **A.** *Lepanthes tatamae*. **B.** *L. tetrachaeta*. **C.** *L. tortilis*. **D.** *L. xenos*. **E.** *L. valerieae*. **F.** *L. vargasii*. **G.** *L. wakemaniae*. **H.** *L. series*. **I.** *L. vespertilio*. **J.** *L. hymenoptera*. **K.** *L. rutkisii*. **L.** *L. scoliosa*. Photographs by S. Moreno (B–F, L), S. Vieira-Uribe (A, G), M. Rincón (H), G. Pisso (I), J. Hernández (K).

- Lepanthopsis floripecten*** (Rchb.f.) Ames, Bot. Mus. Leaf. 1(9): 11. 1933. *Humboldtia floripecten* (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Lepanthes floripecten* (Rchb.f.) Ames, Bot. Mus. Leaf. 1(9): 11. 1933. *Pleurothallis floripecten* Rchb.f., Bonplandia (Hannover) 2: 25. 1854. ILLUSTRATION: Cogniaux 1896, f. 2 (p. 122); Luer 1991a, pl. 14 (p. 35). Fig. 12A. DISTRIBUTION: BRA COL COS ECU ELS HON MEX NIC PAN VEN. TYPE: Venezuela, *Wagener s.n.* [L564] (holotype, W-R-0053767; isotype, K-L-000079888). VOUCHER: Colombia, *Luer 13049* (MO). TYPE: Colombia, *Escobar et al. 3383* (holotype, MO).
- Lepanthopsis prolifera*** Garay, Orchid J. 2: 468. 1954. ILLUSTRATION: Luer 1991a, pl. 25 (p. 54). DISTRIBUTION: *COL. TYPE: Colombia, *Schultes & Smith 12537* (holotype, US; isotype, AMES).
- Lepanthopsis undulata*** Kolan. & Szlach., Ann. Bot. Fenn. 57: 140–141. 2020. ILLUSTRATION: Kolanowska & Szlachetko 2020a, f. 1. DISTRIBUTION: *COL. TYPE: Colombia, *Schneider 200* (holotype, COL; isotype, COL).
- Lepanthopsis vinacea*** C.Schweinf., Bot. Mus. Leaf. 18: 109. 1958. ILLUSTRATION: Luer 1991, pl. 32 (p. 67). DISTRIBUTION: COL ECU VEN. TYPE: Venezuela, *Wurdack 33866* (holotype, AMES). VOUCHER: Colombia, *Luer 14217* (MO).
- Lepanthopsis hirtzii*** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 39: 38, pl. 16. 1991. ILLUSTRATION: Luer 1991a, pl. 15 (p. 37). DISTRIBUTION: COL ECU. TYPE: Ecuador, *Luer et al. 10953* (holotype, MO). VOUCHER: Colombia, *Luer 14217* (MO).
- Lepanthopsis obliquipetala*** (Ames & C.Schweinf.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 39: 76. 1991. *Physosiphon obliquipetalus* Ames & C.Schweinf., Sched. Orch. 8: 12–14. 1925. *Pleurothallis connata* Luer, Selbyana 5(3–4): 388. 1981. *Stelis obliquipetala* (Ames & C.Schweinf.) L.O.Williams, Ceiba 5(1): 54. 1956. *Trichosalpinx obliquipetala* (Ames & C.Schweinf.) Luer, Phytologia 54(5): 396. 1983. ILLUSTRATION: Luer 1991a, pl. 37 (p. 77); Duque 1993, p. 311, p. 313. DISTRIBUTION: COL COS ECU. TYPE: Costa Rica, *Lankester 680* (holotype, AMES). VOUCHER: Colombia, *Duque 1637* (MO).
- Lepanthopsis peniculus*** (Schltr.) Garay, Orchid J. 2(10): 468. 1953. *Pleurothallis peniculus* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 110. 1920. ILLUSTRATION: Luer 1991a, pl. 23(p. 51); Mansfeld 1929, pl. 38 (n. 146). Fig. 12B. DISTRIBUTION: *COL. TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 38, No. 146)].
- Lepanthopsis pristis*** Luer & R.Escobar, Orquideología 16(3): 27–28. 1986. ILLUSTRATION: Luer & Escobar 1986, p. 29; Luer 1991a, pl. 24 (p. 53). DISTRIBUTION: *COL.
- MADISONIA Luer
- Madisonia kerrii*** (Braga) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 258. 2004. *Pleurothallis kerrii* Braga, Bradea 3: 172. 1981. ILLUSTRATION: Luer 2006, f. 46; Smidt *et al.* 2021, f. 2, f. 3. DISTRIBUTION: BRA COL PER VEN. TYPE: Brazil, *Madison et al. PFE 366* (holotype, INPA). VOUCHER: Colombia, *Cardenas 24034* (COAH).
- Madisonia spiculifera*** (Lindl.) Toscano & Smidt, Phytotaxa 505(1): 81. 2021. *Anathallis spiculifera* (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 115: 259. 2009. *Humboldtia spiculifera* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Pleurothallis spiculifera* Lindl., Fol. Orchid. ~Pleurothallis~ 43. 1859. *Specklinia spiculifera* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16(4): 259. 2001. ILLUSTRATION: Luer 2006, f. 35a, 35b. DISTRIBUTION: BOL BRA COL ECU FRE GUY JAM L.A. SUR VEN. TYPE: Venezuela [incorrectly cited as Brazil], *Spruce 3154* (holotype, K; isotypes, P, W). VOUCHER: Colombia, *Schultes & Cabrera 14559* (MO).

MASDEVALLIA Ruiz & Pav.

- Masdevallia aenigma** Luer & R.Escobar, Selbyana 7: 69. 1982. *Alaticaulia aenigma* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 4. 2006.
ILLUSTRATION: Escobar 1983, p. 67; Luer 2000b, pl. 2, pl. 3.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 7571* (holotype, SEL; isotype, COL).
- Masdevallia aguirrei** Luer & R.Escobar, Harvard Pap. Bot. 9: 1. 1996. *Alaticaulia aguirrei* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 4. 2006.
ILLUSTRATION: Luer 2000b, pl. 4; Ortiz & Medina 2012, f. 7.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 17988* (holotype, MO).
- Masdevallia akemiana** Königer & Sijm, Arcula 12: 298. 2003.
ILLUSTRATION: Königer 2003, p. 299.
DISTRIBUTION: *COL.
TYPE: Colombia, *Königer WK-112* (holotype, M; isotype, JAUM).
- Masdevallia alismifolia** Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 422. 1921.
ILLUSTRATION: Luer 2002b, pl. 394.
DISTRIBUTION: *COL.
TYPE: Colombia, *Lehmann s.n.* (holotype, W-R-0083477).
- Masdevallia** × **alvaroi** Luer & R.Escobar, Orquideología 13: 47. 1978. *Spilotantha* × **alvaroi** (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 15. 2006.
ILLUSTRATION: Luer & Escobar 1978, p. 48, p. 49, p. 60 (top left); Luer 2003b, pl. 573.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 1978* (holotype, SEL).
- Masdevallia amanda** Rchb.f., Bonplandia (Hannover) 2: 115. 1854. *Spilotantha amanda* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 15. 2006.
ILLUSTRATION: Luer 2003b, pl. 574; Gutiérrez Morales & Osés 2017, f. 6.
DISTRIBUTION: COL ECU VEN.
TYPE: Colombia, *Warszewicz s.n.* [lectotype (selected here), W-R-0047348, middle illustr.].
- Masdevallia andreae** P.Ortiz, Orquideología 26: 11. 2009.
ILLUSTRATION: Ortiz 2009a, p. 8 (top), p. 11.
DISTRIBUTION: *COL.
TYPE: Colombia, *Ortiz 1306* (holotype, HPUJ, lost).
- Masdevallia angulata** Rchb.f., Otia Bot. Hamburg. 1: 15. 1878. *Byrsella angulata* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 7. 2006.
ILLUSTRATION: Luer 2000c, pl. 133.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Lehmann s.n.* (holotype, W-R-38736; isotype, K).
VOUCHER: Colombia, *Escobar 3213* (MO).
- Masdevallia angulifera** Rchb.f. ex Kraenzl., Repert. Spec. Nov. Regni Veg. Beih. 34: 19. 1925.
ILLUSTRATION: Luer 2002b, pl. 503, pl. 504. Fig. 12C.
DISTRIBUTION: *COL.
TYPE: Colombia, *Wallis s.n.* (holotype, W-R-0050954).
- Masdevallia anisomorpha** Garay, Orquideología 5: 79. 1970. *Rodrigoa anisomorpha* (Garay) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 14. 2006.
ILLUSTRATION: Luer 2003b, pl. 621, pl. 622.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 446* (holotype, AMES).
- Masdevallia apparitio** Luer & R.Escobar, Orquideología 13(2): 145. 1979.
ILLUSTRATION: Luer & Escobar 1979, p. 146, p. 147, p. 170 (bottom left); Luer 2002b, pl. 396.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 1490* (holotype, JAUM).
- Masdevallia arangoi** Luer & R.Escobar, Orquideología 13(2): 149. 1979. *Acinopetala arangoi* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 3. 2006.
ILLUSTRATION: Luer & Escobar 1979, p. 150, p. 151, p. 168 (top right); Luer 2001a, pl. 365.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 1391* (holotype, JAUM).
- Masdevallia arminii** Linden & Rchb.f., Bonplandia (Hannover) 2: 283. 1854.
ILLUSTRATION: Luer 2002b, pl. 397, pl. 398.
DISTRIBUTION: *COL.
TYPE: Colombia, *Schlim 740* [lectotype (se-

lected here), W-R-0050826/W-0254007; isolecotypes, G-00168822, G00168823, K-000077775, K-000880305, K-L, P-00493092].

Note: Both *Schlim 740* (Ocaña) and *Schlim 1182* (Pamplona) are cited in the protologue. The first is selected as lectotype.

Masdevallia assurgens Luer & R.Escobar, *Orquideología* 13(92): 153. 1979.

ILLUSTRATION: Luer & Escobar 1979, p. 154, p. 155, p. 168 (bottom left); Luer 2001a, pl. 262, pl. 263.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 830* (holotype, JAUM; isotype, SEL).

Masdevallia bicolor Poepp. & Endl., *Nov. Gen. Sp. Pl.* 2: 6, pl. 108B. 1837. *Alaticaulia bicolor* (Poepp. & Endl.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 4. 2006.

ILLUSTRATION: Luer 2000b, pl. 8–11; Vásquez & Ibisch 2000, f. 26–28, pl. 60.

DISTRIBUTION: BOL COL ECU PER VEN.

TYPE: Peru, *Poeppig 1662* (holotype, W-0023683).

VOUCHER: Colombia, *Warszewicz s.n.* (W).

Masdevallia bonplandii Rchb.f., *Bonplandia* (Hannover) 3: 69. 1855. *Byrsella bonplandii* (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 8. 2006. *Masdevallia coriacea* subsp. *bonplandii* (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 16: 23. 1986.

ILLUSTRATION: Luer 2000c, pl. 137, pl. 138.

DISTRIBUTION: COL ECU PER.

TYPE: Ecuador, *Humboldt & Bonpland s.n.* (holotype, P; isotype, G).

VOUCHER: Colombia, *Luer 7879* (SEL).

Masdevallia brockmuelleri Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 87: 805–806, pl. 403. 2002.

ILLUSTRATION: Luer 2002b, pl. 403.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 10409* (holotype, MO).

Masdevallia buccinator Rchb.f. & Warsz., *Bonplandia* (Hannover) 2: 115. 1854. *Alaticaulia buccinator* (Rchb.f. & Warsz.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 4. 2006.

ILLUSTRATION: Escobar 1983, p. 84, p. 85; Luer 2000b, pl. 15.

DISTRIBUTION: *COL.

TYPE: Colombia, *Schlim 1181* (holotype, W-R-47217; isotypes, BR-0000006570781, P-00493089).

Masdevallia bucculenta Luer, *Lindleyana* 10: 115. 1995. *Buccella bucculenta* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 7. 2006.

ILLUSTRATION: Luer 2003b, pl. 634. Fig. 12D.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer et al. 9862* (holotype, MO).

VOUCHER: Colombia, *Galindo et al. 1476* (CUVC).

Masdevallia cacodes Luer & R.Escobar, *Selbyana* 7: 70. 1982. *Byrsella cacodes* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 8. 2006.

ILLUSTRATION: Luer 2000c, pl. 140.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 1841* (holotype, SEL; isotype, JAUM).

Masdevallia caesia Roezl, *Orchidophile* 1: 599. 1881. *Byrsella caesia* (Roezl) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 8. 2006.

ILLUSTRATION: Luer 2000c, pl. 141.

DISTRIBUTION: *COL.

TYPE: Colombia, *Roezl s.n.* Colombia, Parque Nacional Natural Farallones de Cali, *Restrepo 016* [neotype (selected here), FAUC-spirit; Fig. 11].

Note: No type specimen was apparently prepared.

Masdevallia campyloglossa Rchb.f., *Gard. Chron.*, n.s. 10: 588. 1878. *Byrsella campyloglossa* (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 8. 2006.

ILLUSTRATION: Luer 2000c, pl. 142–145.

DISTRIBUTION: COL ECU PER.

TYPE: Colombia, *Veitch 47* (holotype, W-R-2344/W-0254009; type ill., W-R-23267/W-0254010).

Masdevallia carrilloana P.Ortiz, *Orquideología* 26: 9. 2009.

ILLUSTRATION: Ortiz 2009a, p. 7 (top), p. 9.

DISTRIBUTION: *COL.

TYPE: Colombia, *Ortiz 1304* (holotype, HPUJ).

Note: Described as *M. carrillana* P.Ortiz.

Masdevallia caudata Lindl., *Gen. Sp. Orchid. Pl.* 193. 1833.

ILLUSTRATION: Luer 2002b, pl. 404, pl. 405; Gil & Osés 2020a, f. 44.

DISTRIBUTION: COL VEN.

TYPE: Colombia, *Goudot s.n.* (holotype, K; tracing, W).

Masdevallia caudivolvula Kraenzl., *Notizbl. Bot. Gart. Berlin-Dahlem* 8: 128. 1922. *Streptoura cau-*

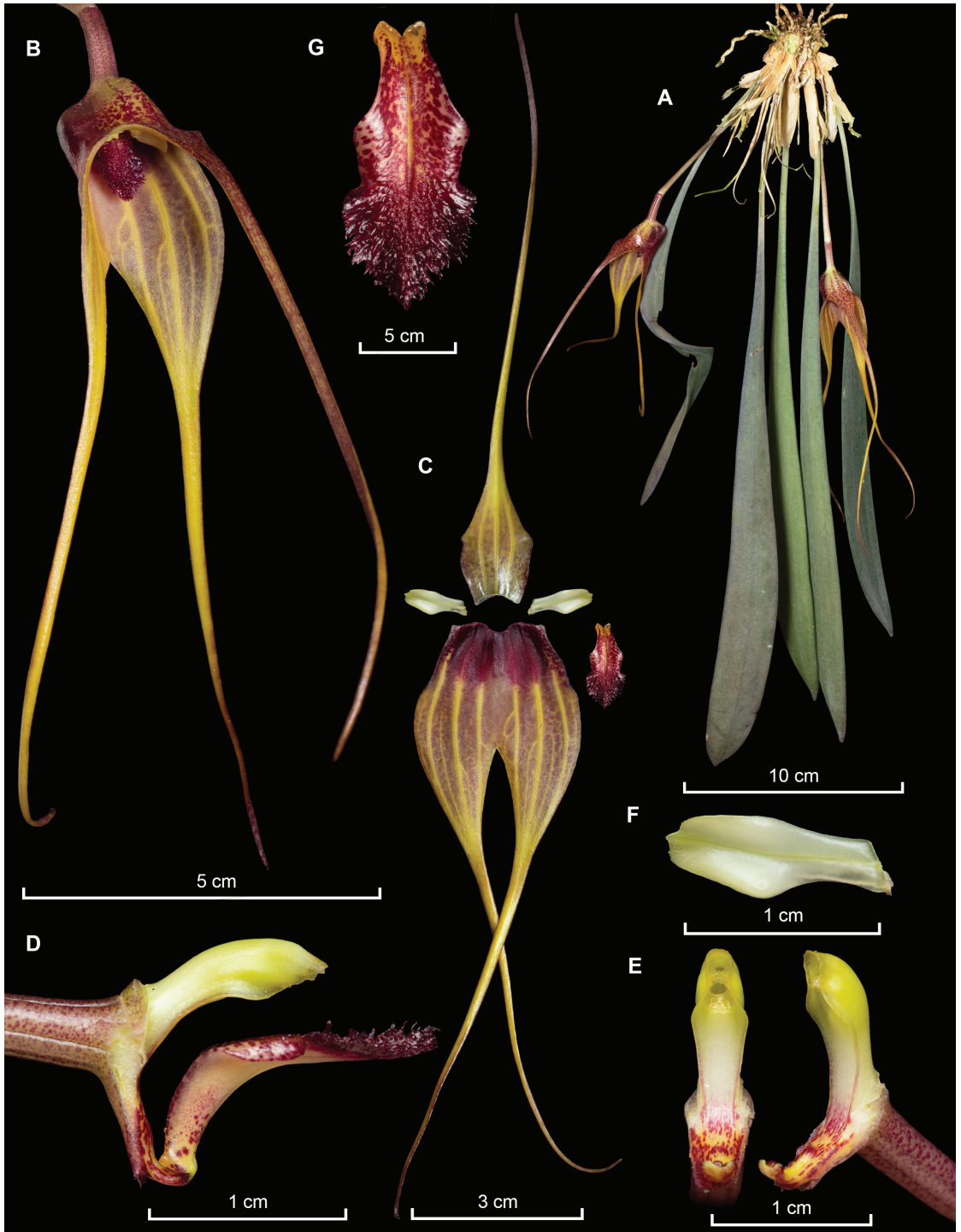


FIGURE 11. LCDP of the specimen that served as neotype of *Masdevallia caesia*. **A.** Habit. **B.** Flower. **C.** Perianth. **D.** Column and lip, side view. **E.** Column, ventral and side views. **F.** Petal. **G.** Lip. Photographs by E. Restrepo based on *Restrepo 016* (FAUC-spirit).

divolvula (Kraenzl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 16. 2006.

ILLUSTRATION: Luer 2003b, pl. 648.

DISTRIBUTION: *COL.

TYPE: Colombia, Kalbreyer 1731 (holotype, B, destroyed). Colombia, *Schmidtchen s.n.* [lectotype (selected here), W-R-0010785, illustr.].

Note: Luer (2003b) selected *Schmidtchen s.n.* at W-R as lectotype. In the protologue, Kraenzlin indeed cites having seen Schmidtchen's material at Reichenbach's herbarium. However, he only refers to an illustration (W-R-10785), not a specimen (W-R-11179), and in fact annotates the latter as type. Luer did not explicitly state which he selected, but he annotated the specimen as "neotype". We specifically select the illustration as lectotype instead.

Masdevallia cerastes Luer & R.Escobar, Orquideología 13(1): 51–55. 1978. *Megema cerastes* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 11. 2006.

ILLUSTRATION: Luer & Escobar 1978, p. 52, p. 53, p. 57 (bottom); Luer 2003b, pl. 609.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 2785* (holotype, JAUM; isotype, SEL).

Masdevallia chimboensis Kraenzl., Bull. Misc. Inform. Kew 1925: 106. 1925. *Luzama chimboensis* (Kraenzl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 10. 2006.

ILLUSTRATION: Luer 2000c, pl. 224.

DISTRIBUTION: *COL.

TYPE: Colombia, *Lehmann 6748* (holotype, K-000077875).

Masdevallia civilis Rchb.f. & Warsz., Bonplandia (Hannover) 2: 115. 1854. *Byrsella civilis* (Rchb.f. & Warsz.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 8. 2006.

ILLUSTRATION: Luer 2000c, pl. 146.

DISTRIBUTION: COL PER.

TYPE: Peru, *Warszewicz 21* [lectotype (selected here), W-R-0038730, illustr. top right].

VOUCHER: Colombia, *Ospina 578* (JAUM).

Note: Luer (2000c) argues that the types of *M. civilis* and *M. rufolutea* Lindl., *nom. nud.* are different elements in a mixed collection by Warszewicz. The sheet at W-R is indeed a mix of elements, but what Luer labelled as type of *M. civilis* is a collection by

Roezl. The color illustration by Reichenbach, which Luer excludes from his concept of *M. civilis*, agrees with the protologue and is here selected as lectotype.

Masdevallia clandestina Luer & R.Escobar, Selbyana 7: 71. 1982.

ILLUSTRATION: Escobar 1983, p. 95; Luer 2001a, pl. 267.

DISTRIBUTION: COL VEN.

TYPE: Colombia, *Luer et al. 7975* (holotype, SEL).

Masdevallia coccinea Linden ex Lindl., Orchid. Linden. 5, n. 26. 1846.

ILLUSTRATION: Williams & Williams 1894, p. 495; Escobar 1983, p. 97; Luer 2003b, pl. 545–547; Karremans & Moreno 2019, f. 31.

DISTRIBUTION: *COL.

TYPE: Colombia, *Linden 1262* (holotype, K-L-000880325; isotypes, BR-0000006570132, W-R-47365).

Masdevallia copiosa Kraenzl., Notizbl. Bot. Gart. Berlin-Dahlem 8: 129. 1922.

DISTRIBUTION: *COL.

TYPE: Colombia, *Kalbreyer 736* (holotype, B, destroyed?).

Note: An obscure name not monographed by Luer.

Masdevallia coriacea Lindl., Ann. Mag. Nat. Hist. 15: 257. 1845. *Byrsella coriacea* (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 8. 2006.

ILLUSTRATION: Escobar 1983, p. 74; Luer 2000c, pl. 149, pl. 150; Gil & Osés 2020b, f. 45

DISTRIBUTION: COL ECU PER.

TYPE: Colombia, *Hartweg s.n.* (holotype, K-L; isotype, W).

Masdevallia corniculata Rchb.f., Gard. Chron., n.s. 9: 72. 1878. *Megema corniculata* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 11. 2006.

ILLUSTRATION: Luer 2003b, pl. 610.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Backhouse s.n.* (holotype, W-R-50959).

Masdevallia crescenticola F.Lehm. & Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 428. 1921. *Acinopetala crescenticola* (F.Lehm. & Kraenzl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 3. 2006.

ILLUSTRATION: Luer 2001a, pl. 371.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Lehmann 230* (holotype, W-R-0083518; isotype, G-00168810).

VOUCHER: Colombia, *Escobar 1459* (JAUM).

- Masdevallia cucullata*** Lindl., *Orchid. Linden.* 4. 1846. *Megema cucullata* (Lindl.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 11. 2006.
ILLUSTRATION: Luer 2003b, pl. 611.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Linden 869* (holotype, K-L; isotypes, BR-0000006570163, GENT-10168608, W-R-50966).
- Masdevallia densiflora*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 7: 77. 1920. *Spilotantha densiflora* (Schltr.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 15. 2006.
ILLUSTRATION: Mansfeld 1929, pl. 26 (n. 96).
DISTRIBUTION: *COL.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 26, No. 96)].
Note: An obscure name not monographed by Luer.
- Masdevallia discolor*** Luer & R.Escobar, *Orquideología* 15(2–3): 129. 1982.
ILLUSTRATION: Luer & Escobar 1982, p. 130; Luer 2002b, pl. 413, pl. 414.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 1915* (holotype, JAUM; isotype, SEL).
- Masdevallia dryada*** Luer & R.Escobar, *Lindleyana* 4(3): 108, 111. 1989. *Petalodon dryadus* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 11. 2006.
ILLUSTRATION: Luer 2000c, pl. 188.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 14161* (holotype, MO; isotypes, JAUM, K).
- Masdevallia elephanticeps*** Rchb.f. & Warsz., *Bonplandia* (Hannover) 2: 116. 1854. *Byrsella elephanticeps* (Rchb.f. & Warsz.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 8. 2006.
ILLUSTRATION: Luer 2000c, pl. 151.
DISTRIBUTION: *COL.
TYPE: Colombia, *Warszewicz s.n.* [lectotype (selected here), W-R-0038728, illustr.].
- Masdevallia encephala*** Luer & R.Escobar, *Orquideología* 13(1): 56. 1978.
ILLUSTRATION: Luer & Escobar 1978, p. 57 (top), p. 68, p. 69; Luer 2001a, pl. 280. Fig. 12E; Gutiérrez Morales & Karremans 2017, f. 7.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 1682* (holotype, JAUM).
- Masdevallia ensata*** Rchb.f., *Linnaea* 22: 818. 1850. *Masdevallia xiphium* Rchb.f. ex Kraenzl., *Repert. Spec. Nov. Regni Veg. Beih.* 34: 78. 1925.
ILLUSTRATION: Luer 2001 b, pl. 281.
DISTRIBUTION: COL VEN.
TYPE: Venezuela, *Funk & Schlim 1543* (holotype, W-R-0039206; isotypes, BM-000082155, BR-0000006570491, BR-0000006571269, G-00168802, G-00168801, G-00168803, K-L!, LE-00006499, P-00493062, W-R-38794; type illustration, AMES-00101245).
VOUCHER: Colombia, *Ortiz-Valdivieso 930* (HPUJ).
- Masdevallia estradae*** Rchb.f., *Gard. Chron.* 2: 435. 1874.
ILLUSTRATION: Luer 2002b, pl. 416; Williams & Williams 1894, p. 488.
DISTRIBUTION: *COL.
TYPE: Colombia, *Wallis s.n.* (holotype, W-R-50934).
- Masdevallia exilipes*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 7: 79. 1920.
ILLUSTRATION: Mansfeld 1929, pl. 26 (n. 98).
DISTRIBUTION: *COL.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 26, No. 98)].
Note: An obscure name not monographed by Luer.
- Masdevallia expansa*** Rchb.f., *Otia Bot. Hamburg.* 16. 1878.
ILLUSTRATION: Luer 2002b, pl. 419.
DISTRIBUTION: *COL.
TYPE: Colombia, *Schlim 1182* [lectotype, W-R-50818 (Luer 2002b); isolectotype, G].
- Masdevallia falcago*** Rchb.f., *Otia Bot. Hamburg.* 16. 1878.
ILLUSTRATION: Luer 2001a, pl. 283.
DISTRIBUTION: *COL.
TYPE: Colombia, *Purdie s.n.* (holotype, W-R-0051153; isotypes, K-000573975, K-000573976).
- Masdevallia fasciata*** Rchb.f., *Gard. Chron.*, n.s. 15(1): 202. 1881. *Rodrigoa fasciata* (Rchb.f.) Braas, *Orchidee* (Hamburg) 30(6): 218. 1979.
ILLUSTRATION: Luer 2003b, pl. 623.
DISTRIBUTION: *COL.
TYPE: Colombia, *Schmidtchen s.n.* [lectotype (selected here), W-R-0014091; type illustration, W-R-0051150].

- Masdevallia filaria*** Luer & R.Escobar, Orquideología 13(1): 70. 1978. *Masdevallia ventricularia* subsp. *filaria* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 16: 36. 1986.
ILLUSTRATION: Luer & Escobar 1978, p. 64 (top, bottom right), p. 72, p. 73; Luer 2002b, pl. 511.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Escobar 456E* (holotype, JAUM).
- Masdevallia floribunda*** Lindl., Edwards's Bot. Reg. 29: misc. 72. 1843. *Acinopetala floribunda* (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 3. 2006. *Masdevallia floribunda* subsp. *floribunda*. ILLUSTRATION: Luer 2001a, pl. 373–376; Bogarín *et al.* 2017, f. 5.
DISTRIBUTION: BEL COL COS GUA HON MEX.
TYPE: Mexico, *Rogers s.n.* (holotype, K-L-000463103; tracing of type, W-R-19726).
VOUCHER: Colombia, unknown collector (LE).
Note: Mostly known from northern Central America, however a cultivated specimen of Colombian origin is cited by Luer (2001b).
- Masdevallia foetens*** Luer & R.Escobar, Orquideología 13(2): 157. 1979. *Byrsella foetens* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 8. 2006.
ILLUSTRATION: Luer & Escobar 1979, p. 160, p. 161, p. 169 (middle); Luer 2000c, pl. 152.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 1072* (holotype, JAUM).
- Masdevallia fragrans*** Woolward, Genus *Masdevallia* (3): , t. 18. 1896. *Byrsella fragrans* (Woolward) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 8. 2006.
ILLUSTRATION: Escobar 1983, p. 73; Luer 2000c, pl. 155.
DISTRIBUTION: *COL.
TYPE: Colombia, *Woolward s.n.* (holotype, BM-000084327).
- Masdevallia gargantua*** Rchb.f., Gard. Chron., n.s. 6: 516. 1876. *Byrsella gargantua* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 8. 2006.
ILLUSTRATION: Luer 2000c, pl. 156, pl. 157.
DISTRIBUTION: *COL.
TYPE: Colombia, *Wallis sub Veitch s.n.* (holotype, W-R-0038742).
- Masdevallia geminiflora*** P.Ortiz, Orquideología 13: 75. 1978. *Acinopetala geminiflora* (P.Ortiz) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 3. 2006.
ILLUSTRATION: Ortiz 1981b, p. 226, p. 227; Luer 2001a, pl. 377.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Ortiz 607* (holotype, COL).
- Masdevallia gerhardii*** Luer & Sijm, Monogr. Syst. Bot. Missouri Bot. Gard. 120: 142. 2010.
ILLUSTRATION: Luer 2010, f. 9 (p. 151).
DISTRIBUTION: *COL.
TYPE: Colombia, *Sijm 290814* (holotype, MO).
- Masdevallia gilbertoi*** Luer & R.Escobar, Orquideología 13(1): 75. 1978.
ILLUSTRATION: Luer & Escobar 1978, p. 59 (top), p. 76, p. 77; Luer 2001a, pl. 287.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 440* (holotype, JAUM).
- Masdevallia hercules*** Luer & Andreetta, Lindleyana 3(4): 198. 1988 [1989]. *Megema hercules* (Luer & Andreetta) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 11. 2006.
ILLUSTRATION: Luer 2003b, pl. 613.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer 13256* (holotype, MO).
VOUCHER: Colombia, *Schultes & Villarreal 5219* (AMES).
- Masdevallia herradurae*** F.Lehm. & Kraenzl., Bot. Jahrb. Syst. 26: 455. 1898. *Acinopetala herradurae* (F.Lehm. & Kraenzl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 3. 2006.
ILLUSTRATION: Luer 2001a, pl. 379.
DISTRIBUTION: *COL.
TYPE: Colombia, *Lehmann 4139* (holotype, K; isotypes, AMES, G, NY, US).
- Masdevallia heteroptera*** Rchb.f., Gard. Chron., n.s. 3(1): 590. 1875. *Rodrigoa heteroptera* (Rchb.f.) Braas, Orchidee (Hamburg) 30(6): 218. 1979.
ILLUSTRATION: Luer 2003b, pl. 624.
DISTRIBUTION: *COL.
TYPE: Colombia, *Norman s.n.* [lectotype, W-R-51149, flower bottom right (Luer 2003b); type illustr., W-R-0051149, top left]. Colombia, Patin s.n. (syntype, W-R-0051149, center and bottom left).
- Masdevallia hians*** Lindl. & Rchb.f., Bonplandia (Hannover) 2: 283. 1854.
ILLUSTRATION: Luer 2001a, pl. 294.
DISTRIBUTION: *COL.
TYPE: Colombia, *Schlim 1163* (holotype, W-R-50110).

- Masdevallia hieroglyphica*** Rchb.f., Gard. Chron. 2: 230. 1882.
ILLUSTRATION: Luer 2001a, pl. 295.
DISTRIBUTION: *COL.
TYPE: Colombia, *Arnold 82* [lectotype (selected here), W-R-0050819, bottom left flowers].
- Masdevallia hoeijeri*** Luer & Hirtz, Lindleyana 1(3): 184. 1986. *Diodonopsis hoeijeri* (Luer & Hirtz) Pridgeon & M.W.Chase, Lindleyana 16(4): 253. 2001. *Pteroon hoeijeri* (Luer & Hirtz) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 12. 2006.
ILLUSTRATION: Luer 2000c, pl. 230.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer 11905* (holotype, MO).
VOUCHER: Colombia, *Escobar 4064* (MO).
- Masdevallia hortensis*** Luer & R.Escobar, Orquideología 16(2): 154. 1984. *Rodrigoa hortensis* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 14. 2006.
ILLUSTRATION: Luer & Escobar 1984b, p. 155, p. 156; Luer 2003b, pl. 625. Fig. 12F; Vieira-Uribe & Karremans 2017c, f. 8.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar et al. 2707* (holotype, SEL; isotypes, COL, JAUM).
- Masdevallia hubeinii*** Luer & Würstle, Orchideen 48: 50. 1986.
ILLUSTRATION: Luer 2002b, pl. 421.
DISTRIBUTION: *COL.
TYPE: Colombia, *Würstle 1324* (holotype, MO).
- Masdevallia hylodes*** Luer & R.Escobar, Orquideología 13(2): 162. 1979. *Byrsella hylodes* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 8. 2006.
ILLUSTRATION: Luer & Escobar 1979, p. 164, p. 165, p. 170 (top); Luer 2000c, pl. 158.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar et al. 1899* (holotype, JAUM; isotype, SEL).
- Masdevallia ignea*** Rchb.f., Gard. Chron. 1871: 1482. 1871.
ILLUSTRATION: Escobar 1983, p. 71; Luer 2003b, pl. 552–554.
DISTRIBUTION: *COL.
TYPE: Colombia, *Veitch s.n.* [lectotype (selected here), W-R-0047372]. Colombia, *Day s.n.* (syn-type, W-R-0047375).
- Masdevallia impostor*** Luer & R.Escobar, Orquideología 13(2): 170. 1979. *Alaticaulia impostor* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 5. 2006.
ILLUSTRATION: Luer & Escobar 1979, p. 168 (top left), p. 172, p. 173; Luer 2000b, pl. 45. Fig. 12G.
DISTRIBUTION: COL ECU VEN.
TYPE: Colombia, *Segura s.n.* (holotype, JAUM; isotype, SEL).
- Masdevallia indecora*** Luer & R.Escobar, Novon 1(4): 170. 1991. *Luzama indecora* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 10. 2006.
ILLUSTRATION: Luer 2000c, pl. 231.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 15265* (holotype, JAUM; isotype, MO).
- Masdevallia jaderi*** S.Vieira-Uribe & Bogarín, Orquideología 33(1): 16. 2016.
ILLUSTRATION: Vieira-Uribe & Bogarín 2016, f. 1, f. 2; Domínguez Vargas & Bogarín 2018, f. 19.
DISTRIBUTION: *COL.
TYPE: Colombia, *Vieira 21* (holotype, JAUM).
- Masdevallia klaboichorum*** Rchb.f., Gard. Chron. 1: 270. 1876. *Masdevallia xanthina* subsp. *klaboichorum* (Rchb.f.) Luer, Lindleyana 3(1): 64. 1988.
ILLUSTRATION: Escobar 1983, p. 93; Luer 2002b, pl. 427, pl. 428; Gutiérrez Morales & Sierra-Ariza 2020, f. 46.
DISTRIBUTION: COL ECU PER.
TYPE: Colombia, *Klaboch s.n.* (holotype, W-R-50830).
Note: Published as *M. klaboichorum*.
- Masdevallia lamia*** Luer & Hirtz, Lindleyana 3(1): 40. 1988. *Buccella lamia* (Luer & Hirtz) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 7. 2006.
ILLUSTRATION: Luer 2003b, pl. 636, pl. 637.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 12383* (holotype, MO).
VOUCHER: A photo of a Colombian specimen is reproduced herein (Fig. 12D).
- Masdevallia laevis*** Lindl., Ann. Mag. Nat. Hist. 15: 257. 1845.
ILLUSTRATION: Escobar 1983, p. 80, p. 100; Luer 2001a, pl. 301–305.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Hartweg s.n.* (holotype, K-L; isotype, W-R-0039199).

- Masdevallia leonor-baeziana*** Os. Perd., Edwin Trujillo & Karremans, *Lankesteriana* 23(2): 140. 2023..
ILLUSTRATION: Perdomo *et al.* 2023, f. 2, f. 3F.
DISTRIBUTION: *COL.
TYPE: Colombia, Perdomo *et al.* OP465 (holotype, CUVIC; isotype, HUAZ).
- Masdevallia leontoglossa*** Rchb.f., Bonplandia (Hannover) 3: 69. 1855. *Byrsella leontoglossa* (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 8. 2006.
ILLUSTRATION: Luer 2000c, pl. 160.
DISTRIBUTION: *COL.
TYPE: Colombia, Wagoner *s.n.* (holotype, W-0038745; type illustr., W-R-0038743).
- Masdevallia leptoura*** Luer, *Phytologia* 54(5): 381. 1983. *Masdevallia pachyura* subsp. *leptoura* (Luer) Luer, *Lindleyana* 3(1): 44. 1988. *Spilotantha leptoura* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 15. 2006.
ILLUSTRATION: Luer 2003b, pl. 589.
DISTRIBUTION: COL ECU PER.
TYPE: Ecuador, Dalström 7264 (holotype, SEL).
VOUCHER: Colombia, Luer 17982 (MO).
- Masdevallia* × *ligiae*** Luer & R. Escobar, *Orquideología* 15(2): 131. 1982.
ILLUSTRATION: Luer & Escobar 1982, p. 132; Luer 2002b, pl. 514.
DISTRIBUTION: *COL.
TYPE: Colombia, Luer 6727 (holotype, JAUM; isotypes, SEL).
Note: Described initially as *Masdevallia ligiae*, since then regarded as a hybrid (Luer 2002b).
- Masdevallia livingstoneana*** Roez! ex Rchb.f., *Gard. Chron.*, n.s. 2(37): 322. 1874. *Acinopetala livingstoneana* (Roez! ex Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 112: 118. 2007. *Acinopetala livingstoneana* (Roez! ex Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 3. 2006, *nom. inval.*
ILLUSTRATION: Luer 2001a, pl. 381.
DISTRIBUTION: COL COS PAN.
TYPE: Panama, Roez! 74 [lectotype (selected here), W-R-0019729/W-0028829, type illustr.].
VOUCHER: Colombia, Duke 9911 (NY).
Note: Roez! *s.n.* at W was selected as lectotype by Kolanowska (2014). However, there are several Roez! materials under *M. livingstoneana* in Reichenbach's herbarium, all except the illustration labeled 'Roez! 74' were prepared after publication and are therefore strictly speaking not original material.
- Masdevallia ludibunda*** Rchb.f., *Gard. Chron.* 1: 179. 1882. *Masdevallia estradae* var. *ludibunda* (Rchb.f.) Woolward, *Masdevallia* 13. 1892.
ILLUSTRATION: Luer 2002b, pl. 430.
DISTRIBUTION: *COL.
TYPE: Colombia, Lawrence *s.n.* [lectotype (selected here), W-R-0050820, illustr. bottom right].
Note: Sheet 50820 in Reichenbach's herbarium contains 3 illustrations, two dissimilar leaves and a note. Only the illustration on the bottom right and the note can be confidently associated with the protologue.
- Masdevallia ludibundella*** Luer & R. Escobar, *Lindleyana* 10(2): 120, 123. 1995.
ILLUSTRATION: Luer 2002b, pl. 431.
DISTRIBUTION: *COL.
TYPE: Colombia, Luer 16881 (holotype, MO).
- Masdevallia macrogenia*** (Arango) Luer & R. Escobar, *Orquideología* 13(1): 79. 1978.
Masdevallia collina var. *macrogenia* O.J. Arango, *Orquideología* 11(1): 13. 1976. *Petalodon macrogenius* (O.J. Arango) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 11. 2006.
ILLUSTRATION: Luer & Escobar 1978, p. 62 (bottom right), p. 80, p. 81; Luer 2000c, pl. 189.
DISTRIBUTION: *COL.
TYPE: Colombia, Arango 160 (holotype, JAUM).
- Masdevallia macroglossa*** Rchb.f., *Otia Bot. Hamburg.* 1: 15. 1878. *Byrsella macroglossa* (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 8. 2006.
ILLUSTRATION: Luer 2000c, pl. 162, pl. 163.
DISTRIBUTION: COL VEN.
TYPE: Venezuela, Fendler 1373 [lectotype (selected here), W-R-0019734, tracing.; isolectotype, K-L].
VOUCHER: Colombia, Ortiz-Valdivieso 954 (HPUJ).
- Masdevallia macrura*** Rchb.f., *Gard. Chron.*, n.s. 1: 240. 1874. *Megema macrura* (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 11. 2006.
ILLUSTRATION: Luer 2000c, pl. 164.
DISTRIBUTION: *COL.
TYPE: Colombia, Roez! *s.n.* (holotype, W-R-0050960).
VOUCHER: Colombia, Luer 10244 (MO).

- Masdevallia mandarina*** (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 87: 857. 2002. *Masdevallia xanthina* subsp. *mandarina* Luer & R.Escobar, Lindleyana 3(1): 64. 1988. ILLUSTRATION: Luer 2002b, pl. 434. DISTRIBUTION: COL ECU. TYPE: Colombia, *Luer et al. 11383* (holotype, MO; isotype, JAUM).
- Masdevallia marthae*** Luer & R.Escobar, Orquideología 13(1): 84. 1978. ILLUSTRATION: Luer & Escobar 1978, p. 64 (bottom left), p. 86, p. 87; Luer 2002b, pl. 516. DISTRIBUTION: *COL. TYPE: Colombia, *Escobar 452* (holotype, JAUM).
- Masdevallia mastodon*** Rchb.f., Bonplandia (Hannover) 3: 69. 1855. ILLUSTRATION: Escobar 1983, p. 77; Luer 2001a, pl. 315. DISTRIBUTION: *COL. TYPE: Colombia, *Wagner s.n.* (holotype, W-R-47216).
- Masdevallia medusa*** Luer & R.Escobar, Selbyana 7: 72. 1982. *Alaticaulia medusa* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 5. 2006. ILLUSTRATION: Escobar 1983, p. 99; Luer 2000b, pl. 59. DISTRIBUTION: *COL. TYPE: Colombia, *Luer et al. 8025* (holotype, SEL; isotype, JAUM).
- Masdevallia mejiana*** Garay, Orquideología 5: 17. 1970. *Reichantha mejiana* (Garay) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 13. 2006. ILLUSTRATION: Luer 2000c, pl. 209. DISTRIBUTION: *COL. TYPE: Colombia, *Escobar 426* (holotype, AMES).
- Masdevallia melanoxantha*** Linden & Rchb.f., Bonplandia (Hannover) 2: 283. 1854. *Alaticaulia melanoxantha* (Linden & Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 5. 2006. ILLUSTRATION: Luer 2000b, pl. 60. DISTRIBUTION: COL VEN. TYPE: Colombia, *Schlim 1166* (holotype, W-R-0047240).
- Masdevallia meleagris*** Lindl., Ann. Mag. Nat. Hist. 15: 257. 1845. *Rodrigoa meleagris* (Lindl. ex Rchb.f.) Braas, Orchidee (Hamburg) 30(6): 218. 1979. ILLUSTRATION: Luer 2003b, pl. 626. DISTRIBUTION: *COL. TYPE: Colombia, *Hartweg s.n.* (holotype, K-L).
- Masdevallia minuta*** Lindl., Ann. Mag. Nat. Hist. 12: 396. 1843. *Acinopetala minuta* (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 3. 2006. ILLUSTRATION: Luer 2001a, pl. 382, pl. 383; Vásquez & Ibsch 2000, pl. 79. DISTRIBUTION: BOL BRA COL ECU FRE GUY PER SUR VEN. TYPE: Surinam, *Hostmann 151* (holotype, K-L; isotypes, BM-000082164, G, LE, W-R, W-R-0050770; type illustr., W-R-0019708). VOUCHER: Colombia, *Dawe 243* (K).
- Masdevallia mirandae*** Gal.-Tar., Haelt. & Zuluaga, Phytotaxa 502(3): 278, 281. 2021. ILLUSTRATION: Galindo-Tarazona *et al.* 2021, f. 1–2. DISTRIBUTION: *COL. TYPE: Colombia, *Galindo-Tarazona 1478* (holotype, CUV; isotype, COL).
- Masdevallia misasii*** Braas, Orchidee (Hamburg) 33(4): 148. 1982. *Byrsella misasii* (Braas) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 8. 2006. *Masdevallia reflexa* Misas, Orquideología 12(23): 149. 1978, *nom. illeg.* Non *Masdevallia reflexa* Schltr. [1923]. ILLUSTRATION: Misas Urreta 1977, p. 151, p. 153; Luer 2000c, pl. 167; Osés & Gutiérrez Morales 2018, f. 20. DISTRIBUTION: *COL. TYPE: Colombia, *Laserna s.n.* (holotype, JAUM).
- Masdevallia molossus*** Rchb.f., Linnaea 41: 10. 1877. *Buccella molossus* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 7. 2006. ILLUSTRATION: Luer 2003b, pl. 639. DISTRIBUTION: *COL. TYPE: Colombia, *Roezl s.n.* (holotype, W-R-51154).
- Masdevallia mooreana*** Rchb.f., Gard. Chron., n.s. 21: 408. 1884. *Byrsella mooreana* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 8. 2006. ILLUSTRATION: Luer 2000c, pl. 168, pl. 169. DISTRIBUTION: *COL. TYPE: Unknown country, *Moore s.n.* (holotype, W-R-0030394/W-0075796; isotypes, BM, K; type illustr., W-R-0038789/0075797A). VOUCHER: Colombia, *Escobar 480* (JAUM).
- Masdevallia mutica*** Luer & R.Escobar, Orquideología 13(1): 88. 1978. *Fissia mutica* (Luer & R.Escobar)

- Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 9. 2006.
 ILLUSTRATION: Luer & Escobar 1978, p. 60 (top right), p. 90, p. 91; Luer 2003b, pl. 615A, pl. 615.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 1483* (holotype, JAUM).
- Masdevallia × mystica*** Luer, Lindleyana 4(3): 119. 1989.
 ILLUSTRATION: Luer 2002b, pl. 520.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 13793* (holotype, MO).
- Masdevallia nidifica*** Rchb.f., Otia Bot. Hamburg. 1: 18. 1878. *Buccella nidifica* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 7. 2006.
 ILLUSTRATION: Luer 2003b, pl. 640.
 DISTRIBUTION: COL COS ECU NIC PAN.
 TYPE: Ecuador, *Lehmann 24* [lectotype, W-R-0051151/W-0028827 (Luer 2003b), top right specimen ('Marz 1877')].
 VOUCHER: Colombia, *Ortiz-Valdivieso 4267* (HPUJ).
- Masdevallia niesseniae*** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 65: 110, pl. 35. 1998.
 ILLUSTRATION: Luer 2003b, pl. 554.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 18789* (holotype, MO).
- Masdevallia nivea*** (Luer & R.Escobar) Luer & R.Escobar, *Thesaurus Masdevalliarum* 13: t. 9. 1989. *Masdevallia purpurella* subsp. *nivea* Luer & R.Escobar, Lindleyana 4: 55. 1988.
 ILLUSTRATION: Luer 2002b, pl. 436.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 12960* (holotype, MO).
- Masdevallia norae*** Luer, Lindleyana 3: 44. 1988. *Alaticaulia norae* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 5. 2006.
 ILLUSTRATION: Luer 2000b, pl. 64.
 DISTRIBUTION: COL VEN.
 TYPE: Venezuela, *Luer 8082* (holotype, SEL).
 VOUCHER: Colombia, *Plowman 2430* (AMES).
- Masdevallia odontocera*** Luer & R.Escobar, Selbyana 7: 73. 1982.
 ILLUSTRATION: Escobar 1983, p. 91; Luer 2001a, pl. 322.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 7933* (holotype, SEL; isotypes, AAU, COL, JAUM).
- Masdevallia orchipayanensium*** P.Ortiz, Orquideología 23(2): 73. 2004.
 ILLUSTRATION: Ortiz 2004, p. 75, p. 76.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Ortiz 1210* (holotype, HPUJ).
- Masdevallia os-draconis*** Luer & R.Escobar, Orquideología 13(1): 92. 1978.
 ILLUSTRATION: Luer & Escobar 1978, p. 59 (bottom), p. 94, p. 95; Luer 2002b, pl. 523.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 1766* (holotype, JAUM).
- Masdevallia oscarrii*** Luer & R.Escobar, Orquideología 13(2): 175. 1979. *Byrsella oscarrii* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 8. 2006.
 ILLUSTRATION: Luer & Escobar 1979, p. 168 (bottom right), p. 176, p. 177; Luer 2000c, pl. 171.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 849* (holotype, JAUM).
- Masdevallia pachyantha*** Rchb.f., Gard. Chron., n.s. 21: 174. 1884. *Byrsella pachyantha* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 8. 2006.
 ILLUSTRATION: Luer 2000c, pl. 172.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Cross s.n.* [lectotype (selected here), W-R-38738; isolectotype, BM-000082150].
- Masdevallia pachysepala*** (Rchb.f.) Luer, Lindleyana 9(4): 245. 1994. *Byrsella pachysepala* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 8. 2006, *nom. inval.* *Masdevallia elephanticeps* fo. *pachysepala* (Rchb.f.) O. Gruss & M. Wolff, Orchid Atlas 213. 2007. *Masdevallia elephanticeps* var. *pachysepala* Rchb.f., Bonplandia (Hannover) 2: 283. 1854.
 ILLUSTRATION: Luer 2000c, pl. 173.
 DISTRIBUTION: COL VEN.
 TYPE: Colombia, *Schlim 410* (holotype, W-R-0038729; isotypes, BR-0000006571603, G-00168809, G-00168808, G-00168807, K-L-000880310, P-00493017).
- Masdevallia pardina*** Rchb.f., Otia Bot. Hamburg. 1: 15. 1878. *Byrsella pardina* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 8. 2006.
 ILLUSTRATION: Luer 2000c, pl. 174.
 DISTRIBUTION: COL ECU.
 TYPE: Colombia, *Chesterton s.n.* (holotype, W-R-0039198).

- Masdevallia parsonsii*** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 115: 241, pl. 701. 2009.
ILLUSTRATION: Luer 2009a, pl. 701.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 21302* (holotype, MO).
- Masdevallia parvula*** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 8: 49. 1921. *Rodrigoa parvula* (Schltr.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 14. 2006.
ILLUSTRATION: Luer 2003b, pl. 629, pl. 630.
DISTRIBUTION: BOL COL ECU PER.
TYPE: Ecuador, *Sodiroy s.n.* (holotype, B, destroyed). Ecuador, *Jost 1678* [neotype, MO (Luer 2003b)].
VOUCHER: Colombia, *Escobar 8344* (JAUM, MO)
- Masdevallia pastinata*** Luer, Harvard Pap. Bot. 2(1): 60, f. 4. 1997. *Alaticaulia pastinata* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 5. 2006.
ILLUSTRATION: Luer 2000b, pl. 69.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 18425* (holotype, MO).
- Masdevallia peristeria*** Rchb.f., Gard. Chron., n.s. 1: 500. 1874. *Byrsella peristeria* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 8. 2006. *Masdevallia peristeria* subsp. *peristeria*.
ILLUSTRATION: Luer 2000c, pl. 175, pl. 176.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Veitch 288* (holotype, W-R-38734; type illustr., W-R-38733, top right).
- Masdevallia pescadoensis*** Luer & R.Escobar, Orquideología 13(2): 179. 1979. *Acinopetala pescadoensis* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 3. 2006.
ILLUSTRATION: Luer & Escobar 1979, p. 167 (bottom left), p. 180, p. 181; Luer 2001a, pl. 385.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 1092* (holotype, JAUM; isotypes, SEL).
- Masdevallia picturata*** Rchb.f., Otia Bot. Hamburg. 1: 16. 1878. *Fissia picturata* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 9. 2006.
ILLUSTRATION: Vásquez & Ibsch 2000, f. 42, pl. 87; Luer 2003b, pl. 616–618; Ortiz & Medina 2012, f. 8; Moreno 2019b, f. 32.
DISTRIBUTION: BOL COL COS ECU GUY PAN PER VEN.
TYPE: Venezuela, *Wagener s.n.* [lectotype (selected here), W-R-0050825/W-0028826, type illustr.; isolectotype, W-R-347, Xenia Orchid. I t. 75(1)].
VOUCHER: Colombia, *Ortiz-Valdivieso 64* (HPUJ).
- Masdevallia pileata*** Luer & Würstle, Orchideen 48: 50. 1986.
ILLUSTRATION: Luer 2002b, pl. 441.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 8132* (holotype, SEL).
- Masdevallia planadensis*** Luer & R.Escobar, Lindleyana 3(1): 50. 1988. *Rodrigoa planadensis* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 14. 2006.
ILLUSTRATION: Luer 2003b, pl. 631.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Luer 12488* (holotype, MO).
- Masdevallia platyglossa*** Rchb.f., Gard. Chron., n.s. 18: 552. 1882. *Byrsella platyglossa* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 8. 2006.
ILLUSTRATION: Luer 2000c, pl. 178.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Lawrence s.n.* (holotype, W-R-0038737).
- Masdevallia posadae*** Luer & R.Escobar, Selbyana 7: 74. 1982. *Alaticaulia posadae* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 5. 2006.
ILLUSTRATION: Luer 2000b, pl. 74, pl. 75; Doucette *et al.* 2016b, f. 4, f. 11c.
DISTRIBUTION: COL ECU PER.
TYPE: Colombia, *Luer 2936* (holotype, SEL; isotype, JAUM).
- Masdevallia pteroglossa*** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 81. 1920. *Masdevallia wagneriana* var. *pteroglossa* (Schltr.) Braas, Orchidee (Hamburg) 33: 148. 1982.
ILLUSTRATION: Mansfeld 1929, pl. 27 (n. 101); Braas 1977, p. 28, p. 29, p. 49; Luer 2002b, pl. 489.
DISTRIBUTION: *COL.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 27, No. 101)]. Colombia, *Luer 10405* [neotype, MO (Luer 2002b), here rejected and selected as epitype].
Note: We follow Pupulin *et al.* (2022) in recog-

nizing Schlechter's floral analyses reproduced by Mansfeld as original material and therefore reject Luer's neotype in favor of a lectotype.

Masdevallia pterygiophora Luer & R.Escobar, Lindleyana 3(1): 50. 1988. *Diodonopsis pterygiophora* (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16(4): 253. 2001. *Pteroon pterygiophorum* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 12. 2006.

ILLUSTRATION: Luer 2000c, pl. 241.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 2288* (holotype, SEL).

Masdevallia pumila Poepp. & Endl., Nov. Gen. Sp. Pl. 2: 6, pl. 108C. 1837.

ILLUSTRATION: Luer 2001a, pl. 330; Vásquez & Ibisch 2000, pl. 88.

DISTRIBUTION: BOL COL ECU PER.

TYPE: Peru, *Poeppig s.n.* (holotype, W-R-0023685; isotypes, K-L, W-R-0050753; type illustr., W-R-19707, W-R-0023684).

VOUCHER: Colombia, *Ortiz-Valdivieso 442* (HPUJ).

Masdevallia purpurella Luer & R.Escobar, Orquideología 15(2–3): 136. 1982.

ILLUSTRATION: Luer & Escobar 1982, p. 137, 138; Luer 2002b, pl. 444.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 1469* (holotype, JAUM; isotype, SEL).

Masdevallia racemosa Lindl., Ann. Mag. Nat. Hist. 15: 256. 1845. *Spectaculum racemosum* (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 14. 2006.

ILLUSTRATION: Luer 2003b, pl. 564; Moreno & Díaz-Morales 2018, f. 21; Galindo-Tarazona *et al.* 2021, f. 3.

DISTRIBUTION: *COL.

TYPE: Colombia, *Hartweg 1432* (holotype, K-L; isotypes, BM-000082142, G-00168770, K-000077755, K-000573980, LD-1404037, P-00493011, W-R-0047336, W-R; type tracing, W-R-0019727).

Masdevallia renzii Luer, Lindleyana 10(4): 232. 1995.

ILLUSTRATION: Luer 2002b, pl. 445.

DISTRIBUTION: *COL.

TYPE: Colombia, *Renz 8461* (holotype, BAS).

Masdevallia rhinophora Luer & R.Escobar, Lindleyana 10(2): 126, f. 7. 1995.

ILLUSTRATION: Luer 2002b, pl. 447.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 16879* (holotype, MO).

Masdevallia rosea Lindl., Ann. Mag. Nat. Hist. 15: 257. 1845. *Masdevallia rosea* subsp. *rosea*.

ILLUSTRATION: Luer 2003b, pl. 555, pl. 556; Williams & Williams 1894, p. 502.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Hartweg s.n.* (holotype, K-L; isotype, W-R-0047338).

VOUCHER: Colombia, *Lehmann 203* (AMES, BM, G, K, LE, NY).

Masdevallia saltatrix Rchb.f., Linnaea 41: 10. 1877.

ILLUSTRATION: Luer 2002b, pl. 527.

DISTRIBUTION: *COL.

TYPE: Colombia, *Roehl s.n.* (holotype, W-R-0050953).

Masdevallia sanctae-fidei Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 414. 1921. *Alaticaulia sanctae-fidei* (Kraenzl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 6. 2006.

ILLUSTRATION: Luer 2000b, pl. 81, pl. 82.

DISTRIBUTION: COL VEN.

TYPE: Colombia, *Man 1015* [lectotype (selected here), W-R-0014963; isolectotypes, HBG-501774, W-R-0013474].

Note: There are three sheets annotated by Kraenzlin himself as "Typus". These were communicated to him by Sander, and all presumably originally collected by Man. However, a single sheet actually cites Man, it is selected as lectotype as per the protologue.

Masdevallia sanctae-rosae Kraenzl., Bull. Misc. Inform. Kew 102. 1925. *Byrsella sanctae-rosae* (Kraenzl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 8. 2006. *Pleurothallis sanctae-rosae* (Kraenzl.) Garay, Orquideología 3: 17. 1968.

ILLUSTRATION: Luer 2000c, pl. 181.

DISTRIBUTION: *COL.

TYPE: Colombia, *Lehmann 7269* (holotype, K; isotypes, AMES, LE, NY).

Masdevallia sceptrum Rchb.f., Bonplandia (Hannover) 2: 283. 1854. *Alaticaulia sceptrum* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 6. 2006. *Masdevallia schlimii* var. *sceptrum* (Rchb.f.) Woolward, *Masdevallia* 8. 1890.

ILLUSTRATION: Luer 2000b, pl. 84, pl. 85.

DISTRIBUTION: COL VEN.

- TYPE: Colombia, *Schlim 1200* (holotype, W-R-0047250; isotype, BR-0000006570484).
- Masdevallia schizantha*** Kraenzl., Notizbl. Bot. Gart. Berlin-Dahlem 8: 134. 1922.
ILLUSTRATION: Luer 2002b, pl. 451.
DISTRIBUTION: *COL.
TYPE: Colombia, *Kalbreder 1095* (holotype, B, destroyed). Colombia, Luer *et al.* 10327 [neotype, MO (Luer 2002b)].
- Masdevallia schizopetala*** Kraenzl., Bull. Misc. Inform. Kew 1925(3): 101–102. 1925. *Acinopetala schizopetala* (Kraenzl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 3. 2006.
ILLUSTRATION: Luer 2000c, pl. 246, pl. 247.
DISTRIBUTION: BOL COL COS PAN.
TYPE: Colombia, *Lehmann 3836* (holotype, K-000077758; isotype, HBG-501779).
- Masdevallia schlimii*** Linden ex Lindl., Orchid. Linden.: 5. 1846. *Alaticaulia schlimii* (Linden ex Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 6. 2006.
ILLUSTRATION: Luer 2000b, pl. 128.
DISTRIBUTION: COL VEN.
TYPE: Venezuela, *Linden 666* (holotype, K-L; isotypes, BR-0000006570811, W-R-12766!, W-R-0047251, W-R-0047243, left infl.; type illustr. W-R-0047255).
VOUCHER: Colombia, *Luer 2328* (SEL).
- Masdevallia schmidt-mummii*** Luer & R.Escobar, Orquideología 13(1): 96. 1978.
ILLUSTRATION: Luer & Escobar 1978, p. 59 (middle), p. 98, p. 99; Luer 2002b, pl. 452.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 1822* (holotype, JAUM; isotype, SEL).
- Masdevallia scobina*** Luer & R.Escobar, Selbyana 7: 75. 1982. *Alaticaulia scobina* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 6. 2006.
ILLUSTRATION: Luer 2000b, pl. 88.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 1904* (holotype, SEL; isotype, JAUM).
- Masdevallia segurae*** Luer & R.Escobar, Orquideología 13(1): 100. 1978. *Rodrigoa segurae* (Luer & R.Escobar) Braas, Orchidee (Hamburg) 30(6): 219. 1979.
ILLUSTRATION: Luer & Escobar 1978, p. 62 (bottom left), p. 102, p. 103; Luer 2003b, pl. 632.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 1601* (holotype, JAUM).
- Masdevallia senghasiana*** Luer, Lindleyana 9(4): 248. 1994.
ILLUSTRATION: Ortiz 2000, 119 (p. 143).
DISTRIBUTION: *COL.
TYPE: Colombia, *Senghas 524* (holotype, HEID; isotype, MO).
Note: Also cited as a hybrid.
- Masdevallia sernae*** Luer & R.Escobar, Orquideología 13(2): 183. 1979. *Alaticaulia sernae* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 6. 2006.
ILLUSTRATION: Luer & Escobar 1979, p. 169 (top), p. 184, p. 185; Luer 2000b, pl. 90.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 1820* (holotype, JAUM).
- Masdevallia siphonantha*** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 87: 1033–1034, pl. 528. 2002.
ILLUSTRATION: Luer 2002b, pl. 528.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 14906* (holotype, W).
- Masdevallia stenorhynchos*** Kraenzl., Notizbl. Bot. Gart. Berlin-Dahlem 8: 130. 1922. *Alaticaulia stenorhynchos* (Kraenzl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 6. 2006.
ILLUSTRATION: Luer 2000b, pl. 93; Sierra-Ariza & Rincón-González 2022, f. 55.
DISTRIBUTION: *COL.
TYPE: Colombia, *Kalbreder 1528* (holotype, B, destroyed). Colombia, *Luer 1862* (neotype, SEL).
- Masdevallia* × *strumella*** Luer, Schlechteriana 1(2): 9, 13. 1988.
ILLUSTRATION: Luer 2001a, pl. 339.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 10180* (holotype, MO).
- Masdevallia strumifera*** Rchb.f., Flora 69: 560. 1886.
ILLUSTRATION: Luer 2001a, pl. 340, pl. 341.
DISTRIBUTION: COL ECU VEN.
TYPE: Colombia, *Lehmann 2720* (holotype, W).
- Masdevallia strumosa*** P.Ortiz & E.Calderón, Orquideología 22: 120. 2002.
ILLUSTRATION: Ortiz & Calderón-Sáenz 2002, p. 122–123.
DISTRIBUTION: *COL.
TYPE: Colombia, *Calderón 110* (holotype, FMB; isotypes, COL, TULV, JAUM).

- Masdevallia sumapazensis*** P.Ortiz, Orquideología 14(3): 223. 1981. *Byrsella sumapazensis* (P.Ortiz) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 8. 2006.
ILLUSTRATION: Ortiz 1981b, p. 223, 225; Luer 2000c, pl. 184.
DISTRIBUTION: *COL.
TYPE: Colombia, *Ortiz 314* (holotype, COL).
- Masdevallia teaguei*** Luer, Selbyana 2(4): 381. 1978. *Jostia teaguei* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 79: 2–3. 2000.
ILLUSTRATION: Ortiz 2009a, p. 7 (bottom); Luer 2000a, pl. 1; Luer 2003b, pl. 647.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer 2035* (holotype, SEL).
VOUCHER: A photographic voucher of a Colombian specimen reproduced in Ortiz (2009, p. 7).
- Masdevallia thienii*** Dodson, Selbyana 2(1): 54, f. 15B. 1977. *Alaticaulia thienii* (Dodson) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 112: 118. 2007. *Reichantha thienii* (Dodson) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 13. 2006.
ILLUSTRATION: Luer 2000b, pl. 131.
DISTRIBUTION: COL COS ECU PAN.
TYPE: Ecuador, *Dodson & Thien 1133* (holotype, SEL).
VOUCHER: Colombia, *Ortiz-Valdivieso 923* (HPUJ).
- Masdevallia torta*** Rchb.f., Gard. Chron., n.s. 19: 110. 1883. *Byrsella torta* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 8. 2006.
ILLUSTRATION: Luer 2000c, pl. 185.
DISTRIBUTION: *COL.
TYPE: Colombia, *Bull s.n.* (holotype; W-R-001414; type illustr., 38746).
- Masdevallia triangularis*** Lindl., Orchid. Linden. 5. 1846.
ILLUSTRATION: Luer 2002b, pl. 454–456.
DISTRIBUTION: COL ECU VEN.
TYPE: Venezuela, *Linden 1471* (holotype, K-L; isotypes, BM-0000923767, BR-0000006570507, G-00168761, W-R-50950; tracing of type, W-R-0019743).
VOUCHER: Colombia, *Schlim 1704* (K, LE).
- Masdevallia tridens*** Rchb.f., Otia Bot. Hamburg. 1: 13. 1879. *Spilotantha tridens* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 15. 2006.
ILLUSTRATION: Luer 2003b, pl. 604.
DISTRIBUTION: COL ECU.
- TYPE: Ecuador, *Jameson s.n.* [lectotype, K-L-000880308 (Luer 2003b); isolectotype, W-R-47364; tracing of type, W-R-19741, left].
- Masdevallia trigonopetala*** Kraenzl., Bull. Misc. Inform. Kew 1925: 105. 1925.
ILLUSTRATION: Luer 2001a, pl. 346.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Lehmann 345* (holotype, K-000077804; tracing of type, W-R-0008145).
- Masdevallia trochilus*** Linden & André, Gard. Chron. 711. 1873. *Alaticaulia trochilus* (Linden & André) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 6. 2006.
ILLUSTRATION: Luer 2000b, pl. 98; Luer 2003b, pl. 98 (p. 196a).
DISTRIBUTION: COL ECU PER.
TYPE: Colombia, *Wallis s.n.* (holotype, W).
- Masdevallia tsubotae*** Luer, Lindleyana 9(2): 114. 1994. *Alaticaulia tsubotae* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 6. 2006.
ILLUSTRATION: Luer 2000b, pl. 100.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 15515* (holotype, MO).
- Masdevallia tubulosa*** Lindl., Orchid. Linden. 4. 1846.
ILLUSTRATION: Luer 2001a, pl. 348–351.
DISTRIBUTION: COL ECU PER VEN.
TYPE: Venezuela, *Linden 685* (holotype, K-L; tracing of type, W-R-0050956, top).
VOUCHER: Colombia, *Luer 7797* (AMES, SEL).
- Masdevallia uncifera*** Rchb.f., Otia Bot. Hamburg. 1: 16. 1878.
ILLUSTRATION: Luer 2001a, pl. 352.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Lehmann s.n.* [lectotype (selected here), W-R-19674, illustr.].
Note: Luer (2001a) and other authors have indicated the type as being a specimen by Jameson kept at K, a tracing of which is in Reichenbach's herbarium at W. However, the protologue suggests the type is a Lehmann collection, for which there is an illustration at W-R.
- Masdevallia unguentum*** A.Doucette, Phytotaxa 48: 34. 2012.
ILLUSTRATION: Doucette 2012, f. 1, f. 2.
DISTRIBUTION: *COL.
TYPE: Colombia, *Doucette 4000* (holotype, BH; isotype, PMA).
- Masdevallia urceolaris*** Kraenzl., Notizbl. Bot. Gart. Berlin-Dahlem 8: 132. 1922.

- ILLUSTRATION: Luer 2001a, pl. 354.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Kalbreyer 545* [holotype, B, destroyed; lectotype, W-R-0052945 (Luer 2001)].
- Masdevallia ustulata*** Luer, *Phytologia* 54(5): 384. 1983.
 ILLUSTRATION: Luer 2001a, pl. 355, pl. 356.
 DISTRIBUTION: COL ECU PER.
 TYPE: Ecuador, *Luer et al. 1660* (holotype, SEL).
 VOUCHER: Colombia, *Luer 14131* (MO)
- Masdevallia valenciae*** Luer & R.Escobar, *Orquideología* 16(3): 36–39. 1986.
 ILLUSTRATION: Luer & Escobar 1986, p. 37; Luer 2002b, pl. 458.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 11309* (holotype, JAUM; isotype, MO).
- Masdevallia vargasii*** C.Schweinf., *Amer. Orchid Soc. Bull.* 19: 34, pl. 1950. *Alaticaulia vargasii* (C.Schweinf.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 6. 2006.
 ILLUSTRATION: Luer & Escobar 1982, p. 135; Luer 2000b, pl. 100–104; Vásquez & Ibisch 2000, pl. 98.
 DISTRIBUTION: BOL BRA COL ECU PER.
 TYPE: Peru, *Vargas 5528* (holotype, herb. Vargas; isotypes, AMES, USM).
 VOUCHER: Colombia, *Escobar 1984* (JAUM).
- Masdevallia velella*** Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 87: 367a–368a, pl. 535. 2002. *Byrsella velella* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 8. 2006.
 ILLUSTRATION: Luer 2002b, pl. 535.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Rao 85* (holotype, MO).
- Masdevallia velifera*** Rchb.f., *Gard. Chron.*, n.s. 2: 98. 1874. *Byrsella velifera* (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 8. 2006.
 ILLUSTRATION: Luer 2000c, pl. 186; Williams & Williams 1894, p. 507.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Patin s.n.* (holotype, W-R-0038740; isotype, K-000077838).
- Masdevallia ventricularia*** Rchb.f., *Otia Bot. Hamburg.* 1: 14. 1878.
 ILLUSTRATION: Luer 2002b, pl. 531.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Lehmann 23* (holotype, W-R-50951).
 VOUCHER: Colombia, *Ortiz-Valdivieso 634* (HPUJ).
- Masdevallia vieirana*** Luer & R.Escobar, *Lindleyana* 3(4): 211. 1989. *Zahleria vieirana* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 17. 2006.
 ILLUSTRATION: Luer 2000c, pl. 252.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 13055* (holotype, MO).
- Masdevallia villegasii*** Königer, *Arcula* 9: 253. 1999.
 ILLUSTRATION: Ortiz 2000, 142 (p. 166).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Königer WK-96* (holotype, M; isotype, K, JAUM, Herb. Königer).
- Masdevallia virgo-rosea*** N.Peláez, *Buitr.-Delg. & Gary Mey.*, *Orquideología* 26(1): 46. 2009.
 ILLUSTRATION: Peláez *et al.* 2009, f. 8 (p. 40), f. 10.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Peláez NP0289* (holotype, JAUM-44182).
 Note: Peláez NP0290 cited as isotype but is a paratype.
- Masdevallia vittatula*** Luer & R.Escobar, *Harvard Pap. Bot.* 9: 9. 1996. *Spilotantha vittatula* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 15. 2006.
 ILLUSTRATION: Luer 2003b, pl. 605A, pl. 605.
 DISTRIBUTION: COL ECU.
 TYPE: Colombia, *Luer 17983* (holotype, MO).
- Masdevallia wuellneri*** P.Ortiz, *Orquideología* 24: 4. 2005.
 ILLUSTRATION: Ortiz 2005, pl. 2 (p. 11), ph. 2 (p. 15).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Ortiz 1182* (holotype, HPUJ).
- Masdevallia wendlandiana*** Rchb.f., *Gard. Chron.*, ser. 3 1: 174. 1887. *Acinopetala wendlandiana* (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 3. 2006.
 ILLUSTRATION: Luer 2001a, pl. 390; Cogniaux 1896, t. 78 (II); Vásquez & Ibisch 2000, f. 44.
 DISTRIBUTION: BOL BRA COL ECU PER VEN.
 TYPE: Colombia, *Wendland s.n.* (holotype, W-R-0050767).
- Masdevallia wetzelii*** Luer & Sijm, *Harvard Pap. Bot.* 17(2): 358. 2012.
 ILLUSTRATION: Luer & Thoerle 2012b, f. 32.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Sijm 20111211* (holotype, MO).
- Masdevallia wuerstlei*** Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 76: 154. 1999. *Alaticaulia wuerstlei*

- (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 6. 2006.
 ILLUSTRATION: Luer 1999a, f. 12a; Luer 2000b, pl. 132.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 8129* (holotype, SEL; isotype, MO).
- Masdevallia xanthina*** Rchb.f., Gard. Chron. 1: 681. 1880. *Masdevallia estradae* var. *xanthina* (Rchb.f.) H.J.Veitch, Man. Orchid. Pl. 5: 42. 1889.
 ILLUSTRATION: Luer 2002b, pl. 463, pl. 464; Gutiérrez Morales & Sierra-Ariza 2020, f. 46.
 DISTRIBUTION: COL ECU.
 TYPE: Colombia, *Veitch 165* (holotype, W-R-50973).
- Masdevallia xyлина*** Rchb.f., Bot. Zeitung (Berlin) 31: 390. 1873. *Alaticaulia xyлина* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 6. 2006.
 ILLUSTRATION: Luer 2000b, pl. 112.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Roezl 717* [lectotype (selected here), W-R-0015007/W-0019499].
 Note: A collection by Roezl at W-R is annotated by Reichenbach with the name *M. xyлина*, but there is no direct indication from the protologue or on the sheet that suggests this specimen is the holotype. It is, however, the only material at W-R that bears the name and being consistent with the description is selected as lectotype.
- Masdevallia zahlbruckneri*** Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 413. 1921. *Zahleria zahlbruckneri* (Kraenzl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 17. 2006, *nom. inval.* *Zahleria zahlbruckneri* (Kraenzl.) Luer, Fl. Mesoamer. 7(2): 545. 2023.
 ILLUSTRATION: Luer 2000b, pl. 253–256.
 DISTRIBUTION: BOL COL COS ECU PAN.
 TYPE: Costa Rica, *Endres 463* (holotype, W-R-0015007/W-0019499).
 VOUCHER: Colombia, *Sarrazola et al. 1607* (HUA).
- Masdevallia zapatae*** Luer & R.Escobar, Novon 1(4): 175. 1991. *Petalodon zapatae* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 11. 2006.
 ILLUSTRATION: Luer 2000b, pl. 190.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 4054* (holotype, JAUM; isotype, MO).
- MYOXANTHUS Poepp. & Endl.
- Myoxanthus affinis*** (Lindl.) Luer, Selbyana 7(1): 35. 1982. *Humboldtia affinis* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis affinis* Lindl., Companion Bot. Mag. 2: 354. 1836.
 ILLUSTRATION: Luer 1991b, f. 390; Luer 1992, pl. 1; Ortiz & Uribe 2007 (CD Edition); Rojas-Alvarado & Karremans 2017, f. 1–4; Luer 1975f, f. 48; Karremans & Vieira-Urbe 2020, p. 189, p. 190; Rojas-Alvarado *et al.* 2021, f. 2e, f. 3a, f. 12a–c.
 DISTRIBUTION: BOL COL COS ECU PER.
 TYPE: Peru, *Mathews 1899* (holotype, K).
 VOUCHER: Colombia, *Luer 13413* (MO).
- Myoxanthus ceratohallii*** (Rchb.f.) Luer, Selbyana 7(1): 36. 1982. *Humboldtia ceratohallii* (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis ceratohallii* Rchb.f., Bonplandia (Hannover) 2: 25. 1854.
 ILLUSTRATION: Luer 1992, pl. 4; Ortiz & Uribe 2007 (CD Edition); Karremans & Vieira-Urbe 2020, p. 198, p. 208; Rojas-Alvarado *et al.* 2021, f. 12e, f. 13.
 DISTRIBUTION: COL ECU PER VEN.
 TYPE: Venezuela, *Wagner sub Schiller s.n.* [L611] (holotype, W-R-0024745/W-0117997; isotype, K-L).
 VOUCHER: Colombia, *Pennell 7581* (AMES, K).
- Myoxanthus cimex*** (Luer & R.Escobar) Luer, Selbyana 7(1): 36. 1982. *Pleurothallis cimex* Luer & R.Escobar, Orquideología 14: 140. 1981.
 ILLUSTRATION: Luer & Escobar 1981a, p. 141; Luer 1992, pl. 6; Ortiz & Uribe 2007 (CD Edition); Karremans & Vieira-Urbe 2020, p. 196; Rojas-Alvarado *et al.* 2021, f. 12h–i.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 2312* (holotype, JAUM; isotype, SEL).
- Myoxanthus epibator*** Luer & R.Escobar, Monogr. Syst. Bot. Missouri Bot. Gard. 44: 30–32. 1992.
 ILLUSTRATION: Luer 1992, pl. 10.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 14312* (holotype, MO).
- Myoxanthus exasperatus*** (Lindl.) Luer, Selbyana 7(1): 36. 1982. *Humboldtia exasperata* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis exasperata* Lindl., Fol. Orchid. ~Pleurothallis~ 15. 1859.

ILLUSTRATION: Luer 1992, pl. 37; Karremans & Vieira-Uribe 2020, p. 203; Rojas-Alvarado *et al.* 2021, f. 2d, f. 2h, f. 3i, f. 14e.

DISTRIBUTION: BRA COL COS ELS GUA PAN PER VEN.

TYPE: Venezuela, *Fendler 1490* (holotype, K; isotypes, K, AMES, GH).

VOUCHER: Colombia, *Renz 3613* (RENZ).

Myoxanthus frutex (Schltr.) Luer, *Selbyana* 7(1): 36. 1982. *Pleurothallis frutex* Schltr., *Repert. Spec. Nov. Regni Veg.* 10: 454. 1912.

ILLUSTRATION: Luer 1992, pl. 14; Karremans & Vieira-Uribe 2020, p. 204; Rojas-Alvarado *et al.* 2021, f. 14h.

DISTRIBUTION: BOL COL PER.

TYPE: Bolivia, Buchtien 2613 [holotype, B, destroyed; letotype, K-000583610; isoelectotypes, AMES, L, US (Rojas-Alvarado *et al.* 2021)].

VOUCHER: Colombia, *Schneider 571* (COL).

Myoxanthus hirsuticaulis (Ames & C.Schweinf.) Luer, *Selbyana* 7(1): 43. 1982. *Pleurothallis hirsuticaulis* Ames & C.Schweinf., *Sched. Orch.* 10: 29–30. 1930.

ILLUSTRATION: Luer 1992, pl. 18; Karremans & Vieira-Uribe 2020, p. 197, p. 205, p. 206; Rojas-Alvarado *et al.* 2021, f. 2a, f. 3f, f. 4c–d, f. 5d, f. 6d, f. 7a, f. 11c–d, f. 15a.

DISTRIBUTION: COL COS PAN PER.

TYPE: Costa Rica, *Standley & Valerio 47052* (holotype, AMES).

VOUCHER: Colombia, *Misas 226d* (HPUJ).

Myoxanthus hystrix (Rchb.f.) Luer, *Selbyana* 7(1): 43. 1982. *Dubois-reymondia hystrix* (Rchb.f.) Brieger, *Trab. Congr. Nac. Bot.* 26: 43. 1977. *Humboldtia hystrix* (Rchb.f.) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891. *Pleurothallis hystrix* Rchb.f., *Bonplandia* (Hannover) 2: 26. 1854.

ILLUSTRATION: Luer 1991b, f. 391; Luer 1992, pl. 19; Karremans & Vieira-Uribe 2020, p. 195; Rojas-Alvarado *et al.* 2021, f. 15b.

DISTRIBUTION: COL VEN.

TYPE: Venezuela, *Wagner s.n.* [L612] (holotype, W-R-0025537/W-0117999; isotype, K-L).

VOUCHER: Colombia, *Lehmann 3613, 3619* (G).

Myoxanthus melittanthus (Schltr.) Luer, *Selbyana* 7(1): 47. 1982. *Pleurothallis melittantha* Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 49. 1924.

ILLUSTRATION: Luer 1991b, f. 392; Luer 1992, pl. 22; Karremans & Vieira-Uribe 2020, p. 195; Rojas-Alvarado *et al.* 2021, f. 15d; Ortiz & Uribe 2007 (CD Edition).

DISTRIBUTION: COL VEN.

TYPE: Colombia, *Hopp 136* (holotype, B, destroyed). Colombia, Luer *et al.* 3023 [neotype, SEL-021582; isoneotype, SEL-021538 (Rojas-Alvarado *et al.* 2021); type illustration Luer 1982, f. 8; Luer 1992: pl. 22].

Myoxanthus merae (Luer) Luer, *Selbyana* 7(1): 47. 1982. *Pleurothallis merae* Luer, *Selbyana* 3: 144, 1976.

ILLUSTRATION: Luer 1992, pl. 23; Karremans & Vieira-Uribe 2020, p. 202; Rojas-Alvarado *et al.* 2021, f. 15e.

DISTRIBUTION: COL ECU PER.

TYPE: Ecuador, *Luer et al. 682* (holotype, SEL).

VOUCHER: Colombia, *Arias 1020* (HUAZ).

Myoxanthus monophyllus Poepp. & Endl., *Nov. Gen. Sp. Pl.* 1: 50. 1836. *Pleurothallis myoxanthus* Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 9: 141. 1921. *Pleurothallis poeppigii* Lindl., *Companion Bot. Mag.* 2: 354. 1836, *nom. superfl.*

ILLUSTRATION: Luer 1975f, f. 67; Luer 1992, pl. 24; Karremans & Vieira-Uribe 2020, p. 186; Rojas-Alvarado *et al.* 2021, f. 15f–h.

DISTRIBUTION: COL ECU PER.

TYPE: Peru, *Poeppig P.1741* (holotype, W; isotype, K).

VOUCHER: Colombia, *André 2553* (K).

Myoxanthus montanus P.Ortiz, *Orquideología* 20: 320. 1997.

ILLUSTRATION: Ortiz 1997, p. 317 (top right), p. 322 (top right); Rojas-Alvarado *et al.* 2021, f. 15i.

DISTRIBUTION: *COL.

TYPE: Colombia, *Ortiz 937* (holotype, HPUJ).

Myoxanthus ortizianus Kolan. & Szlach., *Biodiv. Res. Conserv.* 36(1): 8. 2014.

ILLUSTRATION: Karremans & Vieira-Uribe 2020, p. 202; Rojas-Alvarado *et al.* 2021, f. 15l.

DISTRIBUTION: *COL.

TYPE: Colombia, *Medina 466* (holotype, HPUJ; photos, MEDEL; drawing, UGDA).

Myoxanthus parahybungensis (Barb.Rodr.) Luer, *Selbyana* 7(1): 47. 1982. *Anathallis parahybungensis* Barb.Rodr., *Gen. Sp. Orchid.* 2: 76. 1882.

ILLUSTRATION: Cogniaux 1896, f. 2 (p. 111); Luer 1975f, f. 65; Luer 1992, pl. 12; Karremans & Vieira-Uribe 2020, p. 187, p. 188.

DISTRIBUTION: BRA COL COS ECU PER VEN.

TYPE: Brazil, *Barbosa Rodrigues s.n.* [holotype, lost; lectotype, tab. 150, in Iconogr. Orchid. Bresil, vol. 3, at the Library of Rio de Janeiro Botanical Garden, cited as tab. 789 [(unpublished) in Barbosa Rodrigues (1882: 76); copied and reproduced in black and white in Cogniaux [1896: tab. 111, fig. II, 1896]; reproduced in colour in Sprunger *et al.* (1996, vol. 1: 208) (Rojas-Alvarado & Karremans 2020)].

VOUCHER: Colombia, *Ospina 81* (JAUM).

Myoxanthus parvilabius (C.Schweinf.) Luer, Selbyana 7(1): 49. 1982. *Pleurothallis parvilabia* C.Schweinf., Bot. Mus. Leaflet. 20: 14. 1962.

ILLUSTRATION: Luer 1992, pl. 28; Karremans & Vieira-Uribe 2020, p. 199; Rojas-Alvarado *et al.* 2021, f. 17d. Fig. 12H.

DISTRIBUTION: COL ECU GUY SUR VEN.

TYPE: Guyana, *Forestry Dept. G340 R.N. 7316* (holotype, NY).

VOUCHER: Colombia, *Gutierrez & Moreno 64* (JBB).

Myoxanthus reymondii (H.Karst.) Luer, Selbyana 7(1): 49. 1982. *Dubois-reymondia palpigera* H.Karst., Bot. Zeitung (Berlin) 6: 397–398. 1848, *nom. superfl.* *Dubois-reymondia reymondii* (H.Karst.) Brieger, Trab. Congr. Nac. Bot. 26: 43. 1977. *Duboisia reymondii* H.Karst., Allg. Gartenzeitung 15(50): 394–395. 1847. *Humboldtia reymondii* (H.Karst.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Pleurothallis palpigera* Karsten, Bot. Zeitung (Berlin) 6: 397–398. 1848, *nom. illeg.* *Pleurothallis palpigera* (H.Karst.) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 6: 63. 1919, *nom. illeg.* *Pleurothallis reymondii* (H.Karst.) Rchb.f., Ann. Bot. Syst. 3: 520. 1852.

ILLUSTRATION: Luer 1991b, f. 393; Luer 1992, pl. 32; Karremans & Vieira-Uribe 2020, p. 196; Rojas-Alvarado *et al.* 2021, f. 17k–l. Fig. 12I.

DISTRIBUTION: COL ECU VEN.

TYPE: Venezuela, *Wagener s.n.* (holotype, W).

VOUCHER: Colombia, *Luer 9056* (SEL).

Myoxanthus trachyclamys (Schltr.) Luer, Selbyana 7(1): 51. 1982. *Pleurothallis trachyclamys* Schltr.,

Repert. Spec. Nov. Regni Veg. Beih. 17: 23. 1922.

ILLUSTRATION: Luer 1992, pl. 38; Misas Urreta 2005, p. 436. Fig. 12J; Karremans & Vieira-Uribe 2020, p. 185; Rojas-Alvarado *et al.* 2021, f. 1b, f. 2b, f. 2j, f. 3j, f. 4f, f. 5f, f. 6f, f. 10a, f. 18i.

DISTRIBUTION: BRA COL COS ECU NIC PAN PER VEN.

TYPE: Panama, *Powell 215* [holotype, B, destroyed; lectotype (Christenson 1991), AMES-23974; isolectotypes, AMES, MO; illustrat., AMES].

VOUCHER: Colombia, *Schultes 8584* (IAN, AMES).

Myoxanthus uxorius (Luer) Luer, Selbyana 7(1): 51. 1982. *Pleurothallis uxoria* Luer, Selbyana 5(2): 186–187. 1979.

ILLUSTRATION: Luer 1992, pl. 39; Karremans & Vieira-Uribe 2020, p. 198; Rojas-Alvarado *et al.* 2021, f. 18j.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer et al. 2533* (holotype, SEL).

VOUCHER: Colombia, *Teague s.n.* (MO).

Myoxanthus xiphion Luer, Selbyana 7(1): 51. 1982.

ILLUSTRATION: Luer 1992, pl. 40; Karremans & Vieira-Uribe 2020, p. 199; Perdomo *et al.* 2020, f. 1, f. 2; Rojas-Alvarado *et al.* 2021, f. 18l.

DISTRIBUTION: BOL COL ECU PER.

TYPE: Ecuador, *Luer et al. 3276* (holotype, SEL).

VOUCHER: Colombia, *Perdomo 180* (CUVC).

OCTOMERIA R.Br.

Octomeria colombiana Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 121. 1920.

ILLUSTRATION: Luer 2010, f. 5a, 5b.

DISTRIBUTION: BOL BRA COL ECU.

TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 43, No. 163)]. Colombia, *Luer 17707* [neotype, MO (Luer 2010), here rejected and selected as epitype]. Note: We follow Pupulin *et al.* (2022) in recognizing Schlechter's floral analyses reproduced by Mansfeld as original material and therefore reject Luer's neotype in favor of a lectotype.

Octomeria costaricensis Schltr., Repert. Spec. Nov. Regni Veg. Beih. 19: 111. 1923.

ILLUSTRATION: Luer 2010, f. 10a, f. 10b.

DISTRIBUTION: COL COS PAN.

- TYPE: Costa Rica, *Brade 1217* [holotype, B, destroyed; lectotype, HB (Luer 2010); illustration of type AMES-31270].
VOUCHER: Colombia, *Cardenas 2149* (MO).
- Octomeria crassilabia*** Pabst, *Rodriguésia* 31. 1956.
ILLUSTRATION: Pabst 1956, pl. 2b.
DISTRIBUTION: BRA COL.
TYPE: Brazil, *Dusén 16077* (holotype, S).
VOUCHER: Colombia, *Clavijo-Romero 1007* (COAH).
- Octomeria exigua*** C.Schweinf., *Bot. Mus. Leafl.* 3: 86–87. 1935.
ILLUSTRATION: Luer 2010, f. 15.
DISTRIBUTION: COL GUY SUR VEN.
TYPE: Guyana, *Thurn 115 B* (holotype, K).
VOUCHER: Colombia, *Gonzales & Cardenas 2693* (COL).
- Octomeria filifolia*** C.Schweinf., *Bot. Mus. Leafl.* 19: 206. 1961.
ILLUSTRATION: Luer 2010, f. 16.
DISTRIBUTION: COL GUY VEN.
TYPE: Venezuela, *Steyermark 75181* (holotype, AMES).
VOUCHER: Colombia, *Duke 12254(6)* (AMES).
- Octomeria gemmula*** Carnevali & I.Ramírez, *Ernstia* 39: 13. 1986.
ILLUSTRATION: Luer 2010, f. 17.
DISTRIBUTION: COL VEN.
TYPE: Venezuela, *Carnevali et al. 1715* (holotype, VEN).
VOUCHER: Colombia, *Schultes & Cabrera 17516* (AMES).
- Octomeria graminifolia*** (L.) R.Br., *Hort. Kew.* (ed. 2) 5: 211. 1813. *Dendrobium graminifolium* (L.) Willd., *Sp. Pl.* 4: 135. 1805. *Epidendrum graminifolium* L., *Sp. Pl.* ed. 2: 1353. 1763.
ILLUSTRATION: Luer 2010, f. 19.
DISTRIBUTION: BOL BRA COL COS ECU GUA MEX NIC PAN PER VEN.
TYPE: Martinique, *Plumier s.n.* (holotype, P); lectotype, *Plumier in Burman*, *Pl. Amer.*: 171, tab. 176, fig. 1 (1758) *Convallaria?* *Caule articulato?* (Garay & Sweet 1974).
VOUCHER: Colombia, *Hirtz 4128* (MO).
- Octomeria grandiflora*** Lindl., *Edwards's Bot. Reg.* 28: Misc. 64–65. 1842.
ILLUSTRATION: Luer 2010, f. 20a, 20b.
DISTRIBUTION: BOL BRA COL ECU VEN.
- TYPE: Brazil, *Loddiges s.n.* [lectotype, K; (Luer 2010)].
VOUCHER Colombia, *Garcia-Barriga 14095* (NY).
- Octomeria guentheriana*** Kraenzl., *Repert. Spec. Nov. Regni Veg.* 25: 19. 1928.
ILLUSTRATION: Luer 2010, f. 21.
DISTRIBUTION: BOL COL.
TYPE: Bolivia, *Buchtien 562* (holotype, B, destroyed; lectotype, AMES; isolectotypes, HGB, US (Luer 2010)).
VOUCHER: Colombia, *Idrobo & Schultes 857* (US).
- Octomeria harantiana*** I.Bock, *Orchidee* (Hamburg) 35(2): 49. 1984.
ILLUSTRATION: Luer 2010, f. 22.
DISTRIBUTION: COL ECU PAN.
TYPE: Colombia, *Bock, Bock & E. Harant 10/t. 10* (holotype, Herb. Irene Bock; isotypes, K, MO).
- Octomeria heleneana*** Carnevali & Delascio, *Ernstia* 45: 12. 1987.
ILLUSTRATION: Luer 2010, f. 23.
DISTRIBUTION: COL VEN.
TYPE: Venezuela, *Delacio 12354* (holotype, VEN).
VOUCHER: Colombia, *Cardenas 49571* (COAH).
- Octomeria longifolia*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 58. 1924.
ILLUSTRATION: Luer 2010, f. 28.
DISTRIBUTION: BRA COL ECU GUY VEN.
TYPE: Colombia, *Hopp 78, 86* (holotype, B, destroyed) Colombia, *Schultes 19785* [neotype, AMES; (Luer 2010); isoneotype COL].
- Octomeria mocoana*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 59. 1924.
ILLUSTRATION: Luer 2010, f. 32.
DISTRIBUTION: BOL COL PER.
TYPE: Colombia, *Hopp 76* (holotype, B, destroyed). Colombia, *Palacios 1956* [neotype, W (Luer 2010)].
- Octomeria napoleon*** Luer ex Gil & Karremans, *Phytotaxa* 406(5): 263. 2019. *Octomeria napoleon* Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 120: 101–102. 2010, *nom. inval.*
ILLUSTRATION: Luer 2010, f. 36.
DISTRIBUTION: *COL.
TYPE: Colombia, *Schultes & Cabrera 14519B* (holotype, AMES-105032; isotypes, AMES-105033, AMES-barcode00287435).
- Octomeria odontoglossoides*** Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 120: 102. 2010.

ILLUSTRATION: Luer 2010, f. 37.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 6729* (holotype, SEL).

Octomeria parvula C.Schweinf., Bot. Mus. Leaf. 3: 90. 1935.

ILLUSTRATION: Luer 2010, f. 40.

DISTRIBUTION: BRA COL GUY VEN.

TYPE: Guyana, Sandwith 234a (holotype, K).

VOUCHER: Colombia, *Hoyos & Hernandez 941* (JAUM, MO)

Octomeria scirpoidea (Poepp. & Endl.) Rchb.f., Bot. Zeitung (Berlin) 10: 856. 1852. *Aspegrenia scirpoidea* Poepp. & Endl., Nov. Gen. Sp. Pl. 2: 12, t. 116. 1836.

ILLUSTRATION: Cogniaux 1896, f. 2 (p. 133), Luer 2010, f. 48; Misas Urreta 2005, p. 448.

DISTRIBUTION: BOL BRA COL COS ECU FRE GUY PER.

TYPE: Peru, *Poeppig 1581* [lectotype (selected here), W-R; isolectotype, W-R-0054470!].

VOUCHER: Colombia, *García-Barriga 14109* (AMES, US).

Note: There are two specimens with the number *Poeppig 1581* at W-R. Both have the same ticket. One, which is numbered, has a ticket written by Reichenbach. It is probably the material he analyzed when studying this species. The other has (as of Aug 2017) no herbarium or barcode number, but it has an original ticket by Poeppig.

Octomeria seegeriana Kraenzl., Xenia Orchid. 3: 101, t. 257. 1892. *Octomeria grandiflora* var. *seegeriana* (Kraenzl.) Cogn., Fl. Bras. 3(4): 606. 1896. *Octomeria robusta* Barb.Rodr., Gen. Sp. Orchid. 2: 97. 1881, *nom. illeg.* *Octomeria grandiflora* var. *robusta* Cogn., Fl. Bras. 3(4): 606. 1896. Non *Octomeria robusta* Rchb.f. & Warm. [1881].

ILLUSTRATION: Cogniaux 1896, f. 1 (p. 123), Luer 2010, f. 49.

DISTRIBUTION: BOL BRA COL ECU.

TYPE: Brazil, *Barbosa Rodrigues s.n.* [holotype, lost; lectotype (Luer 2010) tab. 185, vol. 3, Barb. Rodr., Icon. Orchid. Brésil, orig. Illustr. At the Library, Rio de Janeiro Bot. Gard., cited as tab. 560 (unpub.) Barb.Rodr., 1881; Cogn. In Mart., Fl. Bras. 3(4), tab. 123, fig. I, 1896; reprod. in Sprunger *et al.*, 1996, 1: 243, fig. B].

VOUCHER: Colombia, *Warner 42* (AMES, MO).

Note: *Octomeria seegeriana* was proposed as a new

name for the illegitimate *O. robusta* Barb.Rodr. Therefore, contrary to what Cogniaux (1896) and Luer (2010) suggests, they are homotypic. This also means that *O. grandiflora* var. *robusta* Cogn. and *O. grandiflora* var. *seegeriana* are also homotypic.

Octomeria taracuana Schltr., Beih. Bot. Centralbl., Abt. 2 42(11): 93. 1925.

ILLUSTRATION: Luer 2010, f. 54.

DISTRIBUTION: BRA COL VEN.

TYPE: Brazil, *Hübner 177* (holotype, B, destroyed). Brazil, *Romero 3219A* [neotype, TFAV (Luer 2010)].

VOUCHER: Colombia, *Cárdenas-López 24493* (COAH).

Octomeria tridentata Lindl., Edwards's Bot. Reg. 25: Misc. 35. 1839.

ILLUSTRATION: Cogniaux 1896, f. 3 (p. 126), Luer 2010, f. 55a; Misas Urreta 2005, p. 450.

DISTRIBUTION: BRA COL ECU FRE GUY NIC PER SUR VEN.

TYPE: Guyana, *Loddiges s.n.* (holotype, K).

VOUCHER: Colombia, *Giraldo 360* (HUA, MO).

Octomeria yauaperyensis Barb.Rodr., Vellozia (ed. 2) 1: 122, t. 837. 1891.

ILLUSTRATION: Cogniaux 1896, f. 3 (p. 132), Luer 2010, f. 58. DISTRIBUTION: BRA COL COS ECU GUY HON PER VEN.

TYPE: Brazil, *Barbosa Rodrigues s.n.* [holotype, lost; lectotype (Luer 2010) fig. A, tab. 200, vol. 3, Barb.Rodr., Icon. Orchid. Brésil, orig. Illustr. At the Library, Rio de Janeiro Bot. Gard., reproduced as tab. 837 (unpub.) Barb.Rodr., 1891; reprod. in Sprunger *et al.*, 1996, 1: 258].

VOUCHER: Colombia, *Castaño-A. 1280* (COAH).

Octomeria zygoglossa Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 120: 117, f. 59. 2010.

ILLUSTRATION: Luer 2010, f. 59.

DISTRIBUTION: *COL.

TYPE: Colombia, *Schultes & Cabrera 14521* (holotype, AMES; isotype, COL).

OPHIDIUM Luer

Ophidion alphonsianum (Doucette ex L.E.Matthews) Karremans & J.S.Moreno, Pleurothallids Neotropical Jewels I: 222. 2020. *Phloeophila alphonsiana* Doucette ex L.E.Matthews, OrchideenJ. 6(3): 8. 2018.

ILLUSTRATION: Matthews 2018, p. 8 A–C, p. 9 (top); Vierling 2019, p. 146 (right), p. 147; Karremans & Vieira-Uribe 2020, p. 220.

DISTRIBUTION: *COL.

TYPE: Colombia, *Doucette 252* (holotype, WIS).

Ophidion barbilabium (Vierling) Karremans & J.S.Moreno, *Pleurothallids Neotropical Jewels I*: 222. 2020. *Phloeophila barbilabia* Vierling, *OrchideenJ.* 26(4): 141. 2019.

ILLUSTRATION: Vierling 2019, p. 141, p. 142; Karremans & Vieira-Uribe 2020, p. 221.

DISTRIBUTION: *COL.

TYPE: Unknown country, *Vierling s.n.* (holotype, M).
VOUCHER: A photographic voucher of a Colombian specimen reproduced in Karremans & Vieira-Uribe 2020, p. 221.

Ophidion carrilloi P.Ortiz, *Orquideología* 24: 6. 2005. *Phloeophila carrilloi* (P.Ortiz) Pfahl, *Internet Orchid Sp. Photo Encycl. Nomencl. Notes 7 Jan 2014*. 2014.

ILLUSTRATION: Ortiz 2005, pl. 4 (13), ph. 4 (p. 15); Karremans & Vieira-Uribe 2020, p. 222.

DISTRIBUTION: *COL.

TYPE: Colombia, *Ortiz 1217* (holotype, HPUJ).

Ophidion compactum (Vierling) Karremans & J.S.Moreno, *Pleurothallids Neotropical Jewels I*: 222. 2020. *Phloeophila compacta* Vierling, *OrchideenJ.* 26(4): 143. 2019.

ILLUSTRATION: Vierling 2019, p. 143, p. 144; Karremans & Vieira-Uribe 2020, p. 215.

DISTRIBUTION: *COL.

TYPE: Unknown, *Vierling s.n.* (holotype, M).

VOUCHER: Colombia, *Gutierrez 2018* (JBB).

Ophidion cunabulum (Luer & R.Escobar) Luer & R.Escobar, *Selbyana* 7(1): 79. 1982. *Cryptophoranthus cunabulum* Luer & R.Escobar, *Orquideología* 14: 114. 1981. *Phloeophila cunabulum* (Luer & R.Escobar) Pridgeon & M.W.Chase, *Lindleyana* 16: 254. 2001.

ILLUSTRATION: Luer & Escobar 1981a, p. 115; Luer 2004, f. 1 (p. 209); Luer 1991c, f. 449; Misas Urreta 2005, p. 464; Karremans & Vieira-Uribe 2020, p. 218. Fig. 12K.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 2165* (holotype, SEL).

Ophidion dasyglossum (Luer & R.Escobar) Luer, *Selbyana* 7(1): 80. 1982. *Cryptophoranthus dasyg-*

lossus Luer & R.Escobar, *Orquideología* 14: 116. 1981. *Phloeophila dasyglossa* (Luer & R.Escobar) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 254. 2001.

ILLUSTRATION: Luer & Escobar 1981a, p. 117; Luer 2004, f. 3 (p. 209); Luer 1991c, f. 451; Ortiz & Uribe 2007 (CD Edition); Karremans & Vieira-Uribe 2020, p. 222.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 1627* (holotype, JAUM).

Ophidion doucetteanum (Doucette ex L.E.Matthews) Karremans & J.S.Moreno, *Pleurothallids Neotropical Jewels I*: 222. 2020. *Phloeophila doucetteana* Doucette ex L.E.Matthews, *OrchideenJ.* 6(3): 9. 2018.

ILLUSTRATION: Matthews 2018, p. 9 (below), p. 10 F–J; Karremans & Vieira-Uribe 2020, p. 217.

DISTRIBUTION: COL ECU?

TYPE: Ecuador?, *Doucette 345* (holotype, WIS).

VOUCHER: A photographic voucher of a Colombian specimen reproduced in Karremans & Vieira-Uribe 2020, p. 217.

Ophidion erectilabrum Reina-Rodr., O.Pérez & Bogarín, *Syst. Biodivers.* 21(1, 2160504): 9.

ILLUSTRATION: Reina-Rodríguez *et al.* 2023, f. 2, f. 3.

DISTRIBUTION: *COL.

TYPE: Colombia, *Reina-Rodríguez et al. 3044* (holotype, CUVC).

Ophidion nekidapono J.S.Moreno & Karremans, *Pleurothallids Neotropical Jewels I*: 220. 2020.

ILLUSTRATION: Karremans & Vieira-Uribe 2020, p. 219.

DISTRIBUTION: *COL.

TYPE: Colombia, *Erazo & Moreno 702* (holotype, CAUP).

Ophidion nigerrimum (Vierling) Karremans & J.S.Moreno, *Pleurothallids Neotropical Jewels I*: 222. 2020. *Phloeophila nigerrima* Vierling, *OrchideenJ.* 26(4): 149. 2019.

ILLUSTRATION: Vierling 2019, p. 149 (right), p. 150; Karremans & Vieira-Uribe 2020, p. 216.

DISTRIBUTION: COL.

TYPE: Unknown, *Vierling s.n.* (holotype, M).

VOUCHER: A photographic voucher of a Colombian specimen reproduced in Karremans & Vieira-Uribe 2020, p. 216.

Ophidion parvum (Vierling) Karremans & J.S.Moreno, *Pleurothallids Neotropical Jewels I*: 222. 2020.



FIGURE 12. **A.** *Lepanthopsis floripecten*. **B.** *L. peniculus*. **C.** *Masdevallia angulifera*. **D.** *M. bucculenta*. **E.** *M. encephala*. **F.** *M. hortensis*. **G.** *M. impostor*. **H.** *Myoxanthus parvilabius*. **I.** *M. reymondii*. **J.** *M. trachychlamys*. **K.** *Ophidion cunabulum*. **L.** *O. parvum*. Photographs by S. Moreno (A, C, E, G, I, K, L), S. Vieira-Uribe (B, D, F), N. Gutiérrez (H) and K. Gil-Amaya (J).

Phloeophila parva Vierling, *OrchideenJ.* 26(4): 153. 2019.

ILLUSTRATION: Vierling 2019, p. 152, p. 153; Karremans & Vieira-Urbe 2020, p. 213, p. 214. Fig. 12L.

DISTRIBUTION: *COL.

TYPE: Unknown, *Vierling s.n.* (holotype, M).

VOUCHER: A photographic voucher of a Colombian specimen reproduced in Karremans & Vieira-Urbe 2020, p. 213, p. 214.

Ophidion pleurothallopsis (Kraenzl.) Luer, *Selbyana* 7(1): 80. 1982. *Cryptophoranthus pleurothallopsis* Kraenzl., *Bull. Misc. Inform. Kew* 1925(3): 115–116. 1925. *Phloeophila pleurothallopsis* (Kraenzl.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 254. 2001.

ILLUSTRATION: Luer 1991c, f. 450; Luer 2004, f. 4 (p. 209); Karremans & Vieira-Urbe 2020, p. 209, p. 210

DISTRIBUTION: BOL COL ECU PAN VEN.

TYPE: Colombia, *Lehmann 7272* (holotype, K).

PABSTIELLA Brieger & Senghas

Pabstiella aryter (Luer) F.Barros, *Bradea* 8(43): 296. 2002. *Anthereon aryter* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 252. 2001. *Pleurothallis aryter* Luer, *Selbyana* 3(1–2): 54–56. 1976. *Ronaldella aryter* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 195–197, f. 152a–b. 2006. *Specklinia aryter* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 259. 2004.

ILLUSTRATION: Luer 2006, f. 152a, f. 152b, f. 152c.

DISTRIBUTION: COL COS PER.

TYPE: Peru, *Fuchs, Jr. s.n.* (holotype, SEL).

VOUCHER: Colombia, *Luer 13095* (MO).

Pabstiella syringodes (Luer) F.Barros, *Bradea* 8: 296. 2002. *Anthereon syringodes* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 252. 2001. *Gyalanthos syringodes* (Luer) Szlach. & Marg., *Polish Bot. J.* 46: 117. 2001. *Pleurothallis syringodes* Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 76: 176, f. 32a. 1999. *Specklinia syringodes* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 264. 2004.

ILLUSTRATION: Luer 1999a, f. 32a.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 19186* (holotype, MO).

Pabstiella tripterantha (Rchb.f.) F.Barros, *Bradea* 8(43): 296. 2002. *Anthereon tripteranthus* (Rchb.f.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 252.

2001. *Humboldtia tripterantha* (Rchb.f.) Kuntze, *Revis. Gen. Pl.* 2: 668. 1891. *Pabstiella tripterantha* (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 140–141. 2006, *nom. superfl.* *Pleurothallis tripterantha* Rchb.f., *Bonplandia* (Hannover) 2: 24. 1854. *Specklinia tripterantha* (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 264. 2004.

ILLUSTRATION: Cogniaux 1896, f. 2; Luer 1975a, f. 20 (p. 97); Luer 2000a, f. 41, f. 42, f. 43 (p. 100); Luer 2006, f. 97, f. 98.

DISTRIBUTION: BOL BRA COL COS ECU PAN PER VEN.

TYPE: Venezuela, *Wagner 120* (holotype, W-R-0053610).

VOUCHER: Colombia, *Lehmann 134* (W).

Pabstiella yauaperyensis (Barb.Rodr.) F.Barros, *Bradea* 8: 296. 2002. *Lepanthes yauaperyensis* Barb. Rodr., *Vellozia* (ed. 2) 117. 1891. *Specklinia yauaperyensis* (Barb.Rodr.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 265. 2004.

ILLUSTRATION: Luer 2006, f. 99.

DISTRIBUTION: BOL BRA COL PER VEN.

TYPE: Brazil, *Barbosa Rodrigues s.n.* [holotype, lost; lectotype (selected here), tab. 126, fig. B, in *Iconogr. Orchid. Bresil*, vol. 2, at the Library of Rio de Janeiro Botanical Garden; reproduced in color in Sprunger *et al.* (1996, vol. 1: 182)].

VOUCHER: Colombia, *Navarro 1244* (COAH).

PENDUSALPINX Karremans & Mel.Fernández

Pendusalpinx berlineri (Luer) Karremans & Mel. Fernández, *Phytotaxa* 340(2): 132. 2018. *Pleurothallis berlineri* Luer, *Selbyana* 3(1–2): 60. 1976. *Trichosalpinx berlineri* (Luer) Luer, *Phytologia* 54(5): 394. 1983.

ILLUSTRATION: Luer 1997, f. 1; Ortiz & Uribe 2007 (CD Edition).

DISTRIBUTION: BOL COL ECU PER VEN.

TYPE: Ecuador, *Berliner s.n.* (holotype, SEL; isotype, MO).

VOUCHER: Colombia, *Portillo et al. 7767* (JAUM).

Pendusalpinx dependens (Luer) Karremans & Mel. Fernández, *Phytotaxa* 340(2): 132. 2018. *Pleurothallis dependens* Luer, *Selbyana* 3(1–2): 94, f. 150. 1976. *Trichosalpinx dependens* (Luer) Luer,

Phytologia 54(5): 394. 1983. Fig. 13A.

ILLUSTRATION: Luer 1997, f. 7, f. 8.

DISTRIBUTION: BOL COL ECU FRE PER VEN.

TYPE: Ecuador, *Brenner 22* (holotype, SEL).

VOUCHER: Colombia, *Lehmann 7055* (AMES, K).

Pendusalpinx patula (Luer) Karremans & Mel. Fernández, Phytotaxa 340(2): 132. 2018. *Trichosalpinx patula* Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 64: 31. 1997, *nom. inval.* *Trichosalpinx patula* Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 65: 82. 1998.

ILLUSTRATION: Luer 1997, f. 17; Ortiz & Uribe 2007 (CD Edition). Fig. 13B.

DISTRIBUTION: BOL COL ECU VEN.

TYPE: Ecuador, *Luer et al. 13395* (holotype, MO).

VOUCHER: Colombia, *Schneider 353* (AMES, UGDA).

PLATYSTELE Schltr.

Platystele acicularis Luer & Hirtz, Monogr. Syst. Bot. Missouri Bot. Gard. 38: 14. 1990.

ILLUSTRATION: Luer 1990, pl. 1.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer et al. 12693* (holotype, MO).

VOUCHER: Colombia, *Sierra 5* (UPTC).

Platystele aculeata Luer, Phytologia 49(3): 197–198. 1981.

ILLUSTRATION: Luer 1990, pl. 2.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer et al. 6303* (holotype, SEL).

VOUCHER: Colombia, *Luer et al. 17665* (MO).

Platystele acutilingua Kapuler & Hascall, Amer. Orchid Soc. Bull. 35: 544. 1966.

ILLUSTRATION: Luer 1990, pl. 3.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Kapuler et al. 268* (holotype, COL).

Platystele alucitae Luer, Phytologia 46(6): 355. 1980.

ILLUSTRATION: Ortiz 1981a, p. 209, p. 211; Luer 1990, pl. 5; Baquero & Zuchan 2017, f. 4; Baquero & Verkovitch 2019, f. 6a.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer et al. 3943* (holotype, SEL).

VOUCHER: Colombia, *Ortiz 969* (COL).

Platystele argentosa Luer & R.Escobar, Monogr. Syst. Bot. Missouri Bot. Gard. 38: 22. 1990.

ILLUSTRATION: Luer 1990, pl. 6; Ortiz 1977, p. 143

(top); Misas Urreta 2005, p. 490, p. 491.

DISTRIBUTION: *COL.

TYPE: Colombia, *Cogollo & Ramírez 3137* (holotype, JAUM; isotype, MO).

Platystele aurea Garay, Orquideología 8(3): 182. 1973.

ILLUSTRATION: Luer 1986, pl. 37; Karremans *et al.* 2016, f. 8a.

DISTRIBUTION: COL ECU PAN.

TYPE: Colombia, *Escobar 886* (holotype, AMES).

Platystele baqueroi L. Jost & G. Iturralde, Lankesteriana 17(1): 55. 2017.

ILLUSTRATION: Jost & Iturralde, f. 1–4. Fig. 13C.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Baquero 3100* (holotype, QCNE).

VOUCHER: Colombia, *Galindo et al. 1513* (CUVC).

Platystele beatricis P.Ortiz, Orquideología 22: 126. 2002.

ILLUSTRATION: Ortiz 2002, p. 129.

DISTRIBUTION: *COL.

TYPE: Colombia, *Ortiz 1095* (holotype, COL).

Platystele calantha P.Ortiz, Orquideología 12: 138. 1977.

ILLUSTRATION: Ortiz 1977, f. 2 (p. 139), p. 143 (bottom); Luer 1990, pl. 8.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Escobar 1414* (holotype, COL).

Platystele caudatisejala (C.Schweinf.) Garay, Orquideología 9(2): 119. 1974. *Pleurothallis caudatisejala* C.Schweinf., Bot. Mus. Leaflet. 4(7): 113. 1937.

ILLUSTRATION: Luer 1990, pl. 10; Bogarín & Karremans 2010, f. 4a; Karremans *et al.* 2016, f. 8b; Baquero & Verkovitch 2019, f. 6b.

DISTRIBUTION: COL COS ECU GUA MEX PAN.

TYPE: Costa Rica, *Brenes 1445* (holotype, AMES).

VOUCHER: Colombia, *Escobar 4001* (MO).

Platystele colombiana S.Vieira-Urbe & Karremans, Spec. Orchid. 1(1). 2017.

ILLUSTRATION: Vieira-Urbe & Karremans 2017b, pl. 12.

DISTRIBUTION: *COL.

TYPE: Colombia, *Vieira & Domínguez 0023* (holotype, JAUM).

Platystele consobrina Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 38: 32. 1990.

ILLUSTRATION: Luer 1990, pl. 12.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 14765* (holotype, MO).

- Platystele dasyglossa*** P.Ortiz, Orquideología 14(1): 18. 1979.
ILLUSTRATION: Ortiz 1979a, p. 16 (bottom left), p. 19; Luer 1990, pl. 14.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 1857* (holotype, COL).
- Platystele densiflora*** P.Ortiz, Orquideología 12(2-3): 140. 1977.
ILLUSTRATION: Ortiz 1977, f. 3 (p. 141), p. 148; Luer 1991d, f. 482; Luer 1990, pl. 15.
DISTRIBUTION: *COL.
TYPE: Colombia, *Ortiz 909* (holotype, COL).
- Platystele dewildei*** Luer & R.Escobar, Monogr. Syst. Bot. Missouri Bot. Gard. 52: 121. 1994.
ILLUSTRATION: Luer 1994, pl. 83.
DISTRIBUTION: *COL.
TYPE: Colombia, *De Wilde 3908* (holotype, MO).
- Platystele examen-culicum*** Luer, Selbyana 3(1-2): 28. 1976.
ILLUSTRATION: Luer 1990, pl. 20. Fig. 13C.
DISTRIBUTION: COL ECU PER.
TYPE: Ecuador, *Luer et al 574* (holotype, SEL).
VOUCHER: Colombia, *Luer 2313* (SEL).
- Platystele filamentosa*** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 38: 46-47. 1990.
ILLUSTRATION: Luer 1990, pl. 21.
DISTRIBUTION: *COL.
TYPE: Colombia, *Dodson et al. 18051* (holotype, MO).
- Platystele gyroglossa*** Luer, Selbyana 3(3-4): 228. 1977.
ILLUSTRATION: Ortiz 1981a, p. 217, p. 218; Luer 1990, pl. 23.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 208* (holotype, SEL).
VOUCHER: Colombia, *Ortiz 971* (COL).
- Platystele jesupiorum*** Luer, Phytologia 49(3): 199. 1981.
ILLUSTRATION: Luer 1990, pl. 25. Fig. 13E.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer 2235* (holotype, SEL).
VOUCHER: Colombia, *Gutierrez & Moreno 73* (JBB).
- Platystele johnstonii*** (Ames) Garay, *Caldasia* 10: 233. 1968. *Pleurothallis johnstonii* Ames, *Orchidaceae* 2: 271. 1908.
ILLUSTRATION: Luer 1990, pl. 26.
DISTRIBUTION: COL ECU VEN.
TYPE: Venezuela, *Johnston 238* (holotype, AMES).
VOUCHER: Colombia, *Hanbury-Tracy 553* (K).
- Platystele lancilabris*** (Rchb.f.) Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 19: 102. 1923. *Pleurothallis lancilabris* (Rchb.f.) Schltr., *Repert. Spec. Nov. Regni Veg.* 12(317-321): 205. 1913. *Stelis lancilabris* Rchb.f., *Beitr. Orchid.-K. C. Amer.* 94, t. 8, 3-5. 1866.
ILLUSTRATION: Luer 1990, pl. 28.
DISTRIBUTION: COL COS.
TYPE: Costa Rica, *Wendland 904* (holotype, W).
VOUCHER: Colombia, *Cuatrecasas 12542* (COL).
- Platystele lehmannii*** Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 52: 124. 1994.
ILLUSTRATION: Luer 1994, pl. 85.
DISTRIBUTION: *COL.
TYPE: Colombia, *Lehmann 7090* (holotype, K).
- Platystele londonoana*** Luer & R.Escobar, *Monogr. Syst. Bot. Missouri Bot. Gard.* 38: 59, pl. 29. 1990.
ILLUSTRATION: Luer 1990, pl. 29.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 14301* (holotype, MO).
- Platystele medinae*** Thoerle, *Novon* 26(2): 180. 2018.
ILLUSTRATION: Thoerle 2018, f. 1-2.
DISTRIBUTION: *COL.
TYPE: Colombia, *Medina Trejo 920a* (holotype, JAUM).
- Platystele megaloglossa*** Luer & R.Escobar, *Orquideología* 16(3): 39-42. 1986.
ILLUSTRATION: Luer & Escobar 1986, p. 41; Luer 1990, pl. 31.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 11374* (holotype, JAUM; isotype, MO).
- Platystele microglossa*** P.Ortiz, *Orquideología* 14: 212. 1981.
ILLUSTRATION: Ortiz 1981a, p. 213; Luer 1990, pl. 32.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 1748* (holotype, COL).
- Platystele microscopica*** Luer, *Phytologia* 45: 356. 1980.
ILLUSTRATION: Luer 1990, pl. 33.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 4608* (holotype, SEL).
- Platystele misasiana*** P.Ortiz, *Orquideología* 14(3): 214. 1981.
ILLUSTRATION: Ortiz 1981a, p. 214, p. 215; Luer 1990, pl. 36.

- DISTRIBUTION: *COL.
 TYPE: Colombia, *Ortiz 960* (holotype, COL).
- Platystele misera*** (Lindl.) Garay, Bot. Mus. Leaf. 21(9): 251. 1967. *Humboldtia misera* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Pleurothallis misera* Lindl., Fol. Orchid. ~Pleurothallis~ 36. n. 215. 1859.
 ILLUSTRATION: Luer 1990, pl. 37.
 DISTRIBUTION: COL PER.
 TYPE: Peru, *Mathews 3197* (holotype, K-L; isotypes, BM-0000074494, G).
 VOUCHER: Colombia, *Zarucchi et al. 7009* (HUA, MO).
- Platystele myoxura*** Luer & Hirtz, Monogr. Syst. Bot. Missouri Bot. Gard. 38: 75. 1990.
 ILLUSTRATION: Luer 1990, pl. 39; Ortiz & Medina 2012, f. 10.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 11711* (holotype, MO)
 VOUCHER: A photographic voucher of a Colombian specimen reproduced in Ortiz & Medina (2012).
- Platystele orchestris*** P.Ortiz, Orquideología 14(1): 20. 1979.
 ILLUSTRATION: Ortiz 1979a, p. 16 (top left), p. 21; Luer 1990, pl. 40; Misas Urreta 2005, p. 494, p. 495.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Misas 10* (holotype, COL).
- Platystele orectoglossa*** P.Ortiz, Orquideología 14: 22. 1979.
 ILLUSTRATION: Ortiz 1979a, p. 16 (top right), p. 23; Luer 1990, pl. 41.
 DISTRIBUTION: COL ECU.
 TYPE: Colombia, *Escobar 1053* (holotype, COL).
- Platystele ortiziana*** Luer & R.Escobar, Monogr. Syst. Bot. Missouri Bot. Gard. 38: 80–82. 1990.
 ILLUSTRATION: Luer 1991d, f. 483, Luer 1990, pl. 43.
 DISTRIBUTION: COL PAN.
 TYPE: Colombia, *Luer 13092* (holotype, MO).
- Platystele ovalifolia*** (H.Focke) Garay & Dunst., Venez. Orchid. Ill. Vol. 1. 2: 268–269. 1961. *Pleurothallis ovalifolia* (H.Focke) Rchb.f., Ann. Bot. Syst. 6(2): 188. 1861. *Stelis ovalifolia* H.Focke, Tijdschr. Wis- Natuurk. Wetensch. Eerste Kl. Kon. Ned. Inst. Wetensch. 2: 202. 1849.
 ILLUSTRATION: Stenzel 2007, f. 15; Luer 1990, pl. 44.
 DISTRIBUTION: BRA COL CUB FRE GUY L.A.
- PAN SUR VEN.
 TYPE: Guyana, *Thurn 36* (holotype, K).
 VOUCHER: Colombia, *Ospina 80* (JAUM).
- Platystele oxyglossa*** (Schltr.) Garay, Orquideología 9(2): 120. 1974. *Pleurothallis lancilabris* var. *oxyglossa* (Schltr.) C.Schweinf., Bot. Mus. Leaf. 6(10): 200. 1938. *Pleurothallis oxyglossa* Schltr., Repert. Spec. Nov. Regni Veg. 10(254–256): 354. 1912.
 ILLUSTRATION: Luer 1991d, f. 486, Luer 1990, pl. 46; Bogarín & Karremans 2010, f. 4b, c; Karremans *et al.* 2016, f. 4c.
 DISTRIBUTION: BOL BRA COL COS ECU ELS GUA MEX NIC PAN PER VEN.
 TYPE: Guatemala, *von Tuerckheim no. II 2422a* (holotype, B, destroyed).
 VOUCHER: Colombia, *Luer 14175* (MO).
- Platystele papillosa*** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 52: 127. 1994.
 ILLUSTRATION: Luer 1994, pl. 87.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Lehmann s.n.* (holotype, K).
- Platystele pisifera*** (Lindl.) Luer, Selbyana 3(3,4): 232. 1977. *Humboldtia pisifera* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Pleurothallis pisifera* Lindl., Fol. Orchid. ~Pleurothallis~ 36. 1859.
 ILLUSTRATION: Luer & Escobar 1983, p. 15; Luer 1990, pl. 50.
 DISTRIBUTION: BOL COL ECU PER VEN.
 TYPE: Ecuador, *Jameson s.n.* (holotype, K).
 VOUCHER: Colombia, *Luer et al. 7898* (SEL).
- Platystele posadarum*** Luer & R.Escobar, Monogr. Syst. Bot. Missouri Bot. Gard. 38: 96. 1990.
 ILLUSTRATION: Luer 1990, pl. 51.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 7451* (holotype, SEL).
- Platystele psix*** Luer & Hirtz, Monogr. Syst. Bot. Missouri Bot. Gard. 44: 117. 1992.
 ILLUSTRATION: Luer 1992, pl. 80.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Hirtz 4830* (holotype, MO).
 VOUCHER: Colombia, *Rincón et al. 1262* (TOLISpirit).
- Platystele pubescens*** Luer, Phytologia 55(3): 200–201. 1984.
 ILLUSTRATION: Luer 1990, pl. 53; Baquero & Verkovich 2019, f. 6d.

- DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Hirtz 1044* (holotype, SEL).
 VOUCHER: Colombia, *Luer 19900* (MO).
- Platystele pyriformis*** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 38: 99. 1990.
 ILLUSTRATION: Luer 1990, pl. 54.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 676* (holotype, SEL).
- Platystele rhinocera*** Luer & Hirtz, Monogr. Syst. Bot. Missouri Bot. Gard. 38: 108–110. 1990.
 ILLUSTRATION: Luer 1990, pl. 60.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 12493* (holotype, MO).
- Platystele riograndensis*** Reina-Rodr. & Karremans, Phytotaxa 375(3): 236. 2018.
 ILLUSTRATION: Reina-Rodríguez & Karremans 2018, f. 1–3.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Reina-Rodríguez et al. 1603* (holotype, CUVC-spirit).
 Note: Originally published as *P. riograndense*.
- Platystele risaraldae*** Luer & R. Escobar, Monogr. Syst. Bot. Missouri Bot. Gard. 52: 130. 1994.
 ILLUSTRATION: Luer 1994, pl. 88.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *De Wilde 326* (holotype, MO).
- Platystele schmidchenii*** Schltr., Repert. Spec. Nov. Regni Veg. 27: 166. 1924.
 ILLUSTRATION: Luer 1990, pl. 61.
 DISTRIBUTION: BOL COL ECU.
 TYPE: Colombia, *Schmidchen s.n.* (holotype, B, destroyed).
- Platystele schneideri*** P. Ortiz, Orquideología 14(1): 24. 1979.
 ILLUSTRATION: Ortiz 1979a, p. 16 (bottom right), p. 25; Luer 1990, pl. 62; Luer 1991d, f. 485.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Ortiz 48* (holotype, COL).
- Platystele stenostachya*** (Rchb.f.) Garay, Caldasia 8(40): 520–521. 1962. *Humboldtia stenostachya* (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Pleurothallis stenostachya* Rchb.f., Linnaea 18: 399. 1844 [1845].
 ILLUSTRATION: Luer 1990, pl. 65; Misas Urreta 2005, p. 504, p. 505.
 DISTRIBUTION: BEL COL COS ECU ELS GUA HON MEX NIC PAN SUR VEN.
- TYPE: Mexico, *Leibold 20* [L547] [lectotype (selected here), W-R-0021894; isolectotype, HAL-0076897]. Mexico, *Leibold 32* (syntype, K-L-000364141).
 VOUCHER: Colombia, *Cuatrecasas 15642* (AMES).
- Platystele stonyx*** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 38: 122. 1990.
 ILLUSTRATION: Luer 1990, pl. 67.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 12519* (holotype, MO).
- Platystele sylvestrei*** Karremans & Bogarín, Lankesteriana 13(3): 268–271. 2014.
 ILLUSTRATION: Fernández *et al.* 2014, f. 6, f. 7.
 DISTRIBUTION: COL COS PAN.
 TYPE: Costa Rica, *Bogarín et al. 8240* (holotype, JBL-spirit).
 VOUCHER: Colombia, *Vieira 040* (JAUM).
- Platystele tica*** Karremans & Bogarín, Lankesteriana 13(3): 271–274. 2014.
 ILLUSTRATION: Fernández *et al.* 2014, f. 8, f. 9, f. 14g–h; Rincón-González *et al.* 2020a, f. 3.
 DISTRIBUTION: COL COS.
 TYPE: Costa Rica, *Karremans et al. 5315* (holotype, JBL-spirit; isotype, JBL-spirit).
 VOUCHER: Colombia, *Vieira 047* (JAUM).
- Platystele umbellata*** P. Ortiz, Orquideología 12(2–3): 136. 1977.
 ILLUSTRATION: Ortiz 1977, f. 1 (p. 137), p. 143 (middle); Luer 1990, pl. 70; Misas Urreta 2005, p. 506, p. 507; Karremans *et al.* 2016, f. 6b.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Ortiz 916* (holotype, COL).

PLEUROTHALLIS R.Br.

- Pleurothallis abortiva*** Luer, Phytologia 47(2): 72–73. 1980. *Tigivesta abortiva* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 112: 121. 2007. *Vestigium abortivum* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 309. 2005.
 ILLUSTRATION: Wilson *et al.* 2018b, f. 2a; Luer 1998b, f. 1.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 4547* (holotype, SEL).
- Pleurothallis acutilabia*** Luer, Orquideología 21(2): 116–118. 1999. *Acronia acutilabia* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 83. 2005. *Zosterophyllanthos acutilabius* (Luer)

- Szlach. & Kulak, *Richardiana* 6: 186. 2006.
 ILLUSTRATION: Luer 1999b, p. 117; Luer 2005, f. 2 (p. 208).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Ramos et al. 1225* (holotype, CUVC; isotype, MO).
- Pleurothallis adonis*** Luer, *Selbyana* 3(1–2): 40. 1976. *Acronia adonis* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 85. 2005. *Zosterophyllanthos adonis* (Luer) Szlach. & Kulak, *Richardiana* 6: 186. 2006.
 ILLUSTRATION: Luer 2005, f. 5a, f. 5b, f. 5c (p. 209).
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 454* (holotype, SEL).
 VOUCHER: Colombia, *Lehmann 3897* (K).
- Pleurothallis aggeris*** Luer, *Lindleyana* 11(3): 143. 1996. *Rhynchopera aggeris* (Luer) Szlach. & Marg., *Polish Bot. J.* 46: 117. 2001.
 ILLUSTRATION: Luer 1998a, f. 1 (p. 92); Luer 1996c, f. 3.
 DISTRIBUTION: COL ECU PER.
 TYPE: Ecuador, *Luer et al. 1632* (holotype, SEL).
 VOUCHER: Colombia, *Ospina 64* (JAUM).
- Pleurothallis aguirrei*** Luer & R.Escobar, *Orquideología* 22(3): 255–257, 280–281. 2003. *Acronia aguirrei* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 85. 2005. *Zosterophyllanthos aguirrei* (Luer & R.Escobar) Szlach. & Kulak, *Richardiana* 6: 132. 2006.
 ILLUSTRATION: Luer 2003c, p. 257; Luer 2005, f. 6 (p. 210).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 8310* (holotype, MO).
- Pleurothallis altimonile*** Luer & R.Escobar, *Orquideología* 14(2): 120. 1981. *Acronia altimonile* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 86. 2005. *Zosterophyllanthos altimonile* (Luer & R.Escobar) Szlach. & Marg., *Polish Bot. J.* 46: 118. 2001.
 ILLUSTRATION: Luer & Escobar 1981a, p. 121; Luer 2005, f. 8 (p. 210).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 2339* (holotype, JAUM; isotype, SEL).
- Pleurothallis alvaroi*** Luer & R.Escobar, *Orquideología* 14(2): 122. 1981. *Acronia alvaroi* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 57. 2005.
 ILLUSTRATION: Luer & Escobar 1981a, p. 123; Luer 1998b, f. 3.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 2088* (holotype, SEL; isotype, JAUM).
- Pleurothallis ambyx*** Luer & R.Escobar, *Orquideología* 14(2): 126. 1981. *Acronia ambyx* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 87. 2005. *Zosterophyllanthos ambyx* (Luer & R.Escobar) Szlach. & Marg., *Polish Bot. J.* 46: 118. 2001.
 ILLUSTRATION: Luer & Escobar 1981a, p. 127; Luer 2005, f. 9 (p. 210).
 DISTRIBUTION: COL ECU.
 TYPE: Colombia, *Luer 2045* (holotype, SEL).
- Pleurothallis amphigya*** Luer & R.Escobar, *Orquideología* 14(2): 128. 1981. *Acronia amphigya* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 57. 2005.
 ILLUSTRATION: Luer & Escobar 1981a, p. 129; Luer 1998b, f. 26, f. 27.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 2046* (holotype, SEL).
- Pleurothallis amplexens*** Luer, *Phytologia* 47(2): 73. 1980.
 ILLUSTRATION: Luer 1999a, f. 48.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer & Luer 5458* (holotype, SEL).
 VOUCHER: Colombia, *André 2972* (K).
- Pleurothallis anceps*** Luer, *Selbyana* 5(2): 159. 1979. *Ancipitia anceps* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 254. 2004.
 ILLUSTRATION: Luer 1989, pl. 1.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Madison et al. s.n.* (holotype, SEL).
 VOUCHER: Colombia, *Luer 2056* (SEL).
- Pleurothallis andreae*** Mark Wilson, B.T.Larsen & J.Portilla, *Lankesteriana* 17(2): 177. 2017.
 ILLUSTRATION: Luer 1989 f. 6; Wilson *et al.* 2017c, f. 3, 4, 6–8, 10, 11, 15–20.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Wilson & Niessen PL0962* (holotype, COCO).
- Pleurothallis antennifera*** Lindl., *Fol. Orchid.* ~*Pleurothallis*~ 30, n. 178. 1859. *Humboldtia antennifera* (Lindl.) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891.

ILLUSTRATION: Luer 1999a, f. 2; Luer 1975f, f. 49.

DISTRIBUTION: BOL COL ECU PER VEN.

TYPE: Ecuador, *Jameson 84* (holotype, K-L; isotypes, K-L, W-R-53840).

VOUCHER: Colombia, *Triana 124* (K, W).

Pleurothallis anthrax Luer & R.Escobar, *Orquideología* 14(2): 130. 1981. *Ancipitia anthrax* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 254. 2004.

ILLUSTRATION: Luer & Escobar 1981a, p. 131; Luer 1989, pl. 2.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 3724* (holotype, SEL).

Pleurothallis applanata Luer & Dalström, *Lindleyana* 11(3): 147. 1996. *Acronia applanata* (Luer & Dalström) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 89. 2005. *Zosterophyllanthos applanatus* (Luer & Dalström) Szlach. & Kulak, *Richardiana* 6: 186. 2006.

ILLUSTRATION: Luer 2005, f. 13 (p. 211); Luer 1996c, f. 8.

DISTRIBUTION: COL ECU PER.

TYPE: Ecuador, *Dalström & Høijer 1060* (holotype, MO).

VOUCHER: Colombia, *Otero 261* (MO).

Pleurothallis archidonae Lindl., *Fol. Orchid.* ~*Pleurothallis*~ 15, no. 74. 1859. *Humboldtia archidonae* (Lindl.) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891.

ILLUSTRATION: Luer 1999a, f. 49.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Jameson s.n.* (holotype, K-L-000820778).

VOUCHER: Colombia, *Schneider 3252* (COL).

Pleurothallis ascera Luer & R.Escobar, *Orquideología* 20: 36. 1996. *Acronia ascera* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 90. 2005.

ILLUSTRATION: Luer & Escobar 1996, p. 37, p. 58 (top, right); Luer 2005, f. 15 (p. 212).

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 5052* (holotype, JAUM; isotype, MO).

Pleurothallis baccata (Luer) J.M.H.Shaw, *Orchid Rev.* 122(1308): 76. 2014. *Acronia baccata* Luer, *Selbyana* 30(1): 2. 2009.

ILLUSTRATION: Luer 2009b, f. 3.

DISTRIBUTION: *COL.

TYPE: Colombia, *Silverstone-Sopkin et al. 8871* (holotype, CUVC; isotype, MO).

Pleurothallis baezensis (Luer & Hirtz) J.M.H.Shaw, *Orchid Rev.* 122: 76. 2014. *Acronia baezensis* Luer & Hirtz, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 91. 2005.

ILLUSTRATION: Luer 2005, f. 18 (p. 213).

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer et al. 3188* (holotype, CUVC; isotype, MO).

VOUCHER: Colombia, *Valencia & Rincón 187* (TOLI).

Pleurothallis baudoensis Luer & R.Escobar, *Orquideología* 21(1): 73–75, pl. 1. 1998. *Acronia baudoensis* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 92. 2005.

ILLUSTRATION: Luer & Escobar 1998, p. 74; Wilson *et al.* 2018b, f. 1b; Luer 2005, f. 20 (p. 213); Misas Urreta 2005, p. 523.

DISTRIBUTION: *COL.

TYPE: Colombia, *de Wilde 3915* (holotype, MO).

Pleurothallis belocardia Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 161. 1924. *Acronia belocardia* (Schltr.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 93. 2005. *Zosterophyllanthos belocardia* (Schltr.) Szlach. & Kulak, *Richardiana* 6: 186. 2006.

DISTRIBUTION: *COL.

TYPE: Colombia, *Hopf s.n.* (holotype, B, destroyed).

Note: An obscure name, no type material seems to be extant.

Pleurothallis bicochlearis Luer, *Orquideología* 21(2): 118–120, f. 2. 1999.

ILLUSTRATION: Luer 1999b, p. 119; Luer 1999a, f. 4.

DISTRIBUTION: *COL.

TYPE: Colombia, *Silverstone-Sopkin et al. 4282* (holotype, CUVC; isotype, MO).

Pleurothallis bicornis Lindl., *Fol. Orchid.* ~*Pleurothallis*~ 7, no. 29. 1859. *Humboldtia bicornis* (Lindl.) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891.

ILLUSTRATION: Luer 1999a, f. 51; Wilson *et al.* 2017e, f. 2, 3, 5, 8.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Jameson s.n.* (holotype, K-L-001097657).

VOUCHER: Colombia, *Luer et al. 10266* (MO).

Pleurothallis bicurris Lindl., *Fol. Orchid.* ~*Pleurothallis*~ 8. 1859. *Humboldtia bicurris* (Lindl.)

Kuntze, Revis. Gen. Pl. 2: 667. 1891.

ILLUSTRATION: Luer 1999a, f. 5.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Jameson 72* (holotype, K-L; isotype, W-R-21853).

VOUCHER: Colombia, *Triana 603* (P).

Pleurothallis bivalvis Lindl., Orchid. Linden. 2. 1846.

Acronia bivalvis (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 93–96, f. 22. 2005. *Humboldtia bivalvis* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891.

ILLUSTRATION: Luer 2003c, p. 266; Luer 2005, f. 22a, f. 22b, f. 22c, f. 22d (p. 214), f. 22e, f. 22f, f. 22g, f. 22h (p. 215).

DISTRIBUTION: BOL COL COS ECU FRE GUA GUY L.A. MEX PAN PER VEN.

TYPE: Venezuela, *Linden 1480* [holotype, K-L-000820780; superfl. selected as lectotype by Kolanowska (2014)].

VOUCHER: Colombia, *Roezl s.n.* (W).

Pleurothallis bovilingua Luer & R.Escobar, Orquideología 21(1): 75–77, pl. 2, photo 2. 1998. *Acronia bovilingua* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 97. 2005.

ILLUSTRATION: Luer & Escobar 1998, p. 75, p. 76; Luer 2005, f. 25 (p. 216); Jiménez *et al.* 2018, f. 4b, f. 5d.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 986* (holotype, AMES).

Pleurothallis brachiata Luer, Selbyana 1(3): 230. 1975.

ILLUSTRATION: Luer 1999a, f. 6; Luer 1975f, f. 50; Misas Urreta 2005, p. 525.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer & Kent 337* (holotype, SEL).

VOUCHER: Colombia, *John 20860* (AMES, COL).

Pleurothallis bulbosa (Luer & R.Escobar) Pfahl, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 3a: 1. 2012. *Acronia bulbosa* Luer & R.Escobar, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 98, f. 28. 2005.

ILLUSTRATION: Luer 2005, f. 28 (p. 217).

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 9043* (holotype, SEL).

Pleurothallis calamifolia Luer & R.Escobar, Orquideología 20: 40. 1996. *Acronia calamifolia* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 99. 2005.

ILLUSTRATION: Luer & Escobar 1996, p. 41; Wilson *et al.* 2018b, f. 1c; Luer 2005, f. 29 (p. 217).

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 10325* (holotype, MO).

Pleurothallis calceolaris Rchb.f., Linnaea 41: 15. 1877. *Acronia calceolaris* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 99. 2005.

ILLUSTRATION: Luer & Escobar 1984b, p. 161; Luer 2005, f. 30 (p. 217); Wilson *et al.* 2018b, f. 1d.

DISTRIBUTION: *COL.

TYPE: Colombia, *Roezl s.n.* (holotype, W-R-0025681).

Pleurothallis calogramma Luer, Orquideología 22(3): 256–259, 281–282. 2003. *Acronia calogramma* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 100. 2005.

ILLUSTRATION: Luer 2003c, p. 258; Luer 2005, f. 32 (p. 218).

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 2115* (holotype, SEL).

Pleurothallis calolalax Luer & R.Escobar, Orquideología 21(1): 78–80. 1998. *Acronia calolalax* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 101. 2005.

ILLUSTRATION: Luer & Escobar 1998, p. 79, f. 3 (p. 97); Luer 2005, f. 33 (p. 218).

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 17693* (holotype, JAUM; isotype, MO).

Pleurothallis calvariola Luer & R.Escobar, Orquideología 14(2): 136. 1981.

ILLUSTRATION: Luer & Escobar 1981a, p. 137; Luer 1999a, f. 54; Luer 1996c, f. 55.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Luer et al. 3056* (holotype, SEL).

Pleurothallis canaligera Rchb.f., Linnaea 41: 15, f. 51. 1877. *Acronia canaligera* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 101. 2005. *Zosterophyllanthos canaliger* (Rchb.f.) Szlach. & Kulak, Richardiana 6(4): 187. 2006.

ILLUSTRATION: Luer 2005, f. 34 (p. 218); Luer 1975f, f. 51.

DISTRIBUTION: COL ECU PER.

TYPE: Colombia, *Roezl s.n.* (holotype, W-R-0025679).

Pleurothallis canidentis Luer & R.Escobar, Orquideología 21: 80–82. 1998. *Acronia canidentis* (Luer

- & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 102. 2005.
 ILLUSTRATION: Luer & Escobar 1998, p. 81, f. 4 (p. 97); Luer 2005, f. 35 (p. 219).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 5228* (holotype, JAUM; isotype, MO).
- Pleurothallis capitonis*** Luer & R.Escobar, Orquideología 20: 44. 1996.
 ILLUSTRATION: Luer & Escobar 1996, p. 43; Luer 1999a, f. 55.
 DISTRIBUTION: COL ECU.
 TYPE: Colombia, *Luer et al. 10110* (holotype, MO).
- Pleurothallis caprina*** Luer & R.Escobar, Orquideología 14(2): 138. 1981. *Ancipitia caprina* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 254. 2004.
 ILLUSTRATION: Luer & Escobar 1981a, p. 139; Luer 1989, pl. 4; Luer 1991e, f. 491.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 226* (holotype, JAUM).
- Pleurothallis cardiophylax*** Rchb.f., Flora 71: 154. 1888. *Acronia cardiophylax* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 103. 2005. *Zosterophyllanthos cardiophylax* (Rchb.f.) Szlach. & Kulak, Richardiana 6: 187. 2006.
 ILLUSTRATION: Luer 2005, f. 37 (p. 219).
 DISTRIBUTION: COL ECU PER.
 TYPE: Colombia, *Low s.n.* (holotype, W-R-0025682).
- Pleurothallis cardiostola*** Rchb.f., Bonplandia (Hannover) 2: 26. 1854. *Acronia cardiostola* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 104. 2005. *Humboldtia cardiostola* (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Zosterophyllanthos cardiostola* (Rchb.f.) Szlach. & Kulak, Richardiana 6: 187. 2006.
 ILLUSTRATION: Luer 2005, f. 38a (p. 219), f. 38b (p. 220); ; Wilson *et al.* 2016, f. 1b, f. 2b; Jiménez *et al.* 2021a, f.3b, f. 4, f. 5; Schuiteman 2018, f. 6 (p. 57); Doucette *et al.* 2016b, f. 5, f. 11g.
 DISTRIBUTION: BOL COL ECU PER VEN.
 TYPE: Venezuela, *Wagner 49* (holotype, W).
 VOUCHER: Colombia, *Lehmann s.n.* (K).
- Pleurothallis cardiorthallis*** Rchb.f., Bot. Zeitung (Berlin) 15(10): 158–159. 1857. *Acronia cardiorthallis* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 106, f. 39. 2005. *Humboldtia cardiorthallis* (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Zosterophyllanthos cardiorthallis* (Rchb.f.) Szlach. & Kulak, Richardiana 6(4): 187. 2006.
 ILLUSTRATION: Luer 2005, f. 39 (p. 220), Pupulin *et al.* 2017a, fig. 1–5, 22, 23; Pupulin *et al.* 2021, f. 2(10), f. 5, f. 21e–f, f. 26; Sierra-Ariza *et al.* 2022, f. 5.
 DISTRIBUTION: COL COS ECU ELS GUA MEX NIC PAN.
 TYPE: Unknown, *Schiller s.n.* (holotype, W; illustration, AMES).
 VOUCHER: Colombia, *Luer & Escobar 6592* (SEL).
- Pleurothallis carnosa*** Braid, Kew Bull. 1924: 200. 1924. *Acronia carnosa* (Braid) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 107. 2005. *Zosterophyllanthos carnosa* (Braid) Szlach. & Kulak, Richardiana 6: 187. 2006.
 ILLUSTRATION: Luer 2005, f. 41 (p. 220).
 DISTRIBUTION: *COL.
 TYPE: Unknown (holotype, K).
 VOUCHER: Colombia, *Albert et al. s.n.* (HUA, MO).
- Pleurothallis cassidata*** Luer & R.Escobar, Orquideología 21: 82–84, t. 5. 1998. *Acronia cassidata* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 108. 2005.
 ILLUSTRATION: Luer & Escobar 1998, p. 83, f. 5 (p. 97); Luer 2005, f. 43 (p. 221).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 8289* (holotype, JAUM; isotype, MO).
- Pleurothallis caucensis*** Mark Wilson, Lankesteriana 17(2): 122, 124. 2017.
 ILLUSTRATION: Wilson *et al.* 2017e, f. 1, 6, 10–13.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Wilson et al. PL0993* (holotype, JAUM).
- Pleurothallis cauda-hirundinis*** Luer & J. Portilla, Monogr. Syst. Bot. Missouri Bot. Gard. 88: 107. 2002. *Acronia cauda-hirundinis* (Luer & J. Portilla) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 57. 2005.
 ILLUSTRATION: Luer 2002a, f. 17 (p. 119); Buitrago-Delgado *et al.* 2005, f. 1 (p. 51), f. 2 (p. 52), ph. 1 (p. 52).
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer 19675* (holotype, MO).
 VOUCHER: Colombia, *Valencia-D. 474* (COL).

- Pleurothallis celsia*** Gal.-Tar. & J.S.Moreno, *ined.*
 ILLUSTRATION: Moreno *et al.* 2023, f. 1–3.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Galindo-Tarazona 1463* (holotype, CUVC).
- Pleurothallis cernua*** Luer, *Selbyana* 1(3): 234. 1975.
 ILLUSTRATION: Luer 1975f, f. 52; Luer 1998b, f.52.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 426* (holotype, SEL).
 VOUCHER: Colombia, *Silverstone-Sopkin et al. 1678* (holotype, CUVC; isotype, MO).
- Pleurothallis chicalensis*** M.M. Jiménez & Baquero, *Lankesteriana* 18(2): 104. 2018.
 ILLUSTRATION: Jiménez *et al.* 2018, f. 1, f. 2a, f. 2b, f. 5a.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *LB 3033* (holotype, QCNE).
 VOUCHER: No Colombian voucher available but see Jiménez *et al.* (2018).
- Pleurothallis chuscalica*** Luer, *Orquideología* 21(2): 120–122. 1999.
 ILLUSTRATION: Luer 1999b, p. 121; Luer 1999a, f. 56.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Lehmann 7134* (holotype, K).
- Pleurothallis circinata*** Luer, *Orquideología* 20: 206. 1996.
 ILLUSTRATION: Luer 1996f, 207; Luer 1998b, f. 54.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Silverstone-Sopkin et al. 3951* (holotype, CUVC; isotype, MO).
- Pleurothallis colossus*** Kraenzl. ex Kerch., *Livre Orchid.* 376. 1894.
 ILLUSTRATION: Luer 1999a, f. 57.
 DISTRIBUTION: COL COS ECU PAN.
 TYPE: Colombia, *Lehmann 6929* [lectotype, LE (Christenson 1995); isolectotypes, AMES (superfl. selected as lectotype by Kolanowska 2014), K; photo of type, MO].
- Pleurothallis constricta*** Luer & R.Escobar, *Orquideología* 21: 84–86, t. 6. 1998. *Acronia constricta* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 113. 2005.
 ILLUSTRATION: Luer & Escobar 1998, p. 85; Luer 2005, f. 52 (p. 223).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 5297* (holotype, JAUM; isotype, MO).
- Pleurothallis cordata*** (Ruiz & Pav.) Lindl., *Gen. Sp. Orchid. Pl.* 5. 1830. *Acronia cordata* (Ruiz & Pav.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 114. 2005. *Humboldtia cordata* Ruiz & Pav., *Syst. Veg. Fl. Peruv. Chil.* 234. 1798. *Stelis cordata* (Ruiz & Pav.) Willd., *Sp. Pl.* 4: 140. 1805.
 ILLUSTRATION: Luer 2005, f. 54a, f. 54b, f. 54c (p. 224), f. 54d, f. 55a, f. 55b, f.56 (p. 225); Pupulin 2013, f. 36b.
 DISTRIBUTION: BOL COL ECU PER.
 TYPE: Peru, *Ruiz & Pavón s.n.* (holotype, M; isotype, BM-000082395).
 VOUCHER: Colombia, *Cogollo 2687* (JAUM, MO).
- Pleurothallis cordifolia*** Rchb.f. & Wagerer, *Bonplandia* (Hannover) 2: 26. 1854. *Acronia cordifolia* (Rchb.f. & Wagerer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 117, f. 57. 2005. *Humboldtia cordifolia* (Rchb.f. & Wagerer) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891. *Zosterophyllum cordifolius* Szlach. & Kulak, *Richardiana* 6: 188. 2006.
 ILLUSTRATION: Luer 2005, f. 57 (p. 226).
 DISTRIBUTION: COL ECU PAN VEN.
 TYPE: Venezuela, *Wagner 42* [lectotype (selected here), W-R-0025499, type illustr. top left].
 VOUCHER: Colombia, *Hutchison 3133* (F, K, MO, M, MICH, NY, P, UC, US).
 Note: The type sheet at W-R is mistakenly annotated as “Holotype” and “Wagner 147”. It consists of an illustration, a flower sketch and an empty envelope. The drawings, *Wagner 42*, agree with the information provided by the protologue. The top left illustration is selected as lectotype.
- Pleurothallis coriacardia*** Rchb.f., *Bonplandia* (Hannover) 2: 26. 1854. *Acronia coriacardia* (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 117. 2005. *Humboldtia coriacardia* (Rchb.f.) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891. *Zosterophyllum coriacardia* (Rchb.f.) Szlach. & Kulak, *Richardiana* 6: 188. 2006.
 ILLUSTRATION: Luer 2005, f. 58 (p. 226).
 DISTRIBUTION: BOL COL ECU PER VEN.
 TYPE: Colombia, *Hartweg, s.n.* (holotype, K).
- Pleurothallis cosmetron*** Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 44: 120, pl. 7. 1992. *Colombiana cosmetron* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 249. 2006.
 ILLUSTRATION: Luer 1992, pl. 7 (p. 121); Wilson *et*

al. 2017d, f. 8a.

DISTRIBUTION: *COL.

TYPE: Colombia, *Pennell 4352* (holotype, NY).

Pleurothallis cotylogera Luer & R.Escobar, *Orquideología* 20: 46. 1996.

ILLUSTRATION: Luer & Escobar 1996, p. 48; Luer 1999a, f. 59.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 16765* (holotype, MO).

Pleurothallis crocodiliceps Rchb.f., *Bonplandia* (Hannover) 3: 72. 1855. *Ancipitia crocodiliceps* (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 254. 2004. *Humboldtia crocodiliceps* (Rchb.f.) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891.

ILLUSTRATION: Luer 1975a, f. 6 (p. 69); Wilson *et al.* 2017c, f. 1, 2.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Wagner s.n.* [lectotype (selected here), W-R-0024689/W-0073521, stem and flower]. Note: There is no clear indication as to the holotype of this controversial taxon. A specimen at W-R which has been regarded as holotype is here selected as lectotype given it conforms with the protologue. The sheet consists of a rough sketch and a single ramicaul, leaf and flower. The lip has been severed and is unfortunately glued back to front.

Pleurothallis cunabularis Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 72: 42. 1998.

ILLUSTRATION: Luer 1998b, f. 56.

DISTRIBUTION: *COL.

TYPE: Colombia, *Silverstone-Sopkin et al. 4909* (holotype, CUVC; isotype, MO).

Pleurothallis cyanea Luer & R.Escobar, *Orquideología* 16(2): 157. 1984. *Acronia cyanea* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 123. 2005.

ILLUSTRATION: Luer & Escobar 1984b, p. 158, p. 159; Luer 2005, f. 67 (p. 228).

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 6730* (holotype, SEL).

Pleurothallis cymbisepala Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 45. 1924.

ILLUSTRATION: Luer 1999a, f. 7.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Hopp 175* (holotype, B, destroyed). Colombia, *Luer et al. 3078* (neotype, K; isoneotype, SEL).

Pleurothallis deflexa Luer, *Selbyana* 1(2): 178. 1975.

Acronia deflexa (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 123. 2005. *Zosterophyllanthos deflexus* (Luer) Szlach. & Kulak, *Richardiana* 6: 189. 2006.

ILLUSTRATION: Luer 2005, f. 68 (p. 228); Luer 1975b, f. 25.

DISTRIBUTION: COL ECU VEN.

TYPE: Ecuador, *Luer & Kent 225* (holotype, SEL).

VOUCHER: Colombia, *Luer 16870* (MO).

Pleurothallis depressa Luer & R.Escobar, *Orquideología* 20: 50. 1996. *Acronia depressa* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 125. 2005.

ILLUSTRATION: Luer & Escobar 1996, p. 53, p. 58 (bottom right); Wilson *et al.* 2018b, f. 1g; Luer 2005, f. 70 (p. 229).

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 17569* (holotype, MO).

Pleurothallis dewildei Luer & R.Escobar, *Orquideología* 21: 86–88. 1998. *Acronia dewildei* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 125. 2005.

ILLUSTRATION: Luer & Escobar 1998, p. 87; Luer 2005, f. 71 (p. 229); Jiménez *et al.* 2018, f. 2c, f. 2d, f.4a, f. 5b.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 16854* (holotype, MO).

Pleurothallis diabolica Luer & R.Escobar, *Orquideología* 14(2): 142. 1981. *Acronia diabolica* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 125. 2005. *Zosterophyllanthos diabolicus* (Luer & R.Escobar) Szlach. & Marg., *Polish Bot. J.* 46: 118. 2001.

ILLUSTRATION: Luer & Escobar 1981a, p. 143; Luer 2005, f. 72 (p. 229); Misa Urreta 2005, p. 533.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Luer 2161* (holotype, SEL).

Pleurothallis discoidea Lindl., *Edwards's Bot. Reg.* 21: sub t. 1797. 1835. *Acronia discoidea* (Lindl.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 128–129. 2005. *Humboldtia discoidea* (Lindl.) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891.

ILLUSTRATION: Luer 1996f, 230; Luer 2005, f. 76a (p. 230), f. 76b (p. 231).

DISTRIBUTION: BOL BRA COL ECU HON L.A. PER SUR VEN.

TYPE: Trinidad (holotype, K).

VOUCHER: Colombia, *Luer 13093* (MO).

Pleurothallis divaricans Schltr., *Repert. Spec. Nov. Regni Veg.* 10(257–259): 387. 1912.

ILLUSTRATION: Luer 1999a, f. 40; Luer 1975b, f. 26; Luer 2011, f. 12.

DISTRIBUTION: BOL COL ECU PAN PER.

TYPE: Peru, *Köhler s.n.* [holotype, B, destroyed; lectotype (selected here), AMES-00074216, photo of type; isolectotype, F, photo of type]. Peru, *Schuncke 1330* [neotype, AMES, designated by Luer (1999), here rejected].

VOUCHER: Colombia, *Hartman 62* (CUVC).

Note: The holotype of this taxon was lost at Berlin, and no other original material is extant except for a photograph of the type kept at AMES and a duplicate of this photograph at F. Luer (1999) selected a neotype based on a different collection, but we follow Pupulin *et al.* (2022) in considering the photographs of the holotype a faithful reproduction of original type material. The neotype is here rejected in favor of the lectotypes.

Pleurothallis dunstervillei Foldats, *Acta Bot. Venez.* 3: 371. 1968. *Ancipitia dunstervillei* (Foldats) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 254. 2004.

ILLUSTRATION: Luer 1989, pl. 7.

DISTRIBUTION: COL ECU PER VEN.

TYPE: Venezuela, *Steyermark & Dunsterville 100843* (holotype, VEN).

VOUCHER: Colombia, *Luer 2744* (SEL).

Pleurothallis duplex Luer & R.Escobar, *Orquideología* 16(1): 22. 1983. *Ancipitia duplex* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 254. 2004.

ILLUSTRATION: Luer & Escobar 1983, p. 23; Luer 1989, pl. 8.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 6684* (holotype, SEL).

Pleurothallis eduardoi Mark Wilson, *Orquideología* 34(1): 41. 2017.

ILLUSTRATION: Wilson *et al.* 2017d, f. 4–6.

DISTRIBUTION: *COL.

TYPE: Colombia, *Wilson & Mejia PL1003* (holotype, JAUM).

Note: Type number mistakenly omitted in the original protologue.

Pleurothallis erythrium Luer, *Selbyana* 2(4): 386.

1978. *Acronia erythrium* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 132. 2005. *Zosterophyllum erythrium* (Luer) Szlach. & Kulak, *Richardiana* 6: 189. 2006.

ILLUSTRATION: Luer 2005, f. 82 (p. 232).

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer et al. 1626* (holotype, SEL).

VOUCHER: Colombia, *Escobar 8327* (MO).

Pleurothallis escobarii (Luer) J.M.H.Shaw, *Orchid Rev.* 122(1308): 76. 2014. *Acronia escobarii* Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 132, f. 83. 2005.

ILLUSTRATION: Luer 2005, f. 83 (p. 232).

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 8304* (holotype, MO).

Pleurothallis excavata Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 19: 287. 1923. *Acronia excavata* (Schltr.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 133, f. 84. 2005. *Zosterophyllum excavatus* (Schltr.) Szlach. & Kulak, *Richardiana* 6(4): 189. 2006.

ILLUSTRATION: Luer 2005, f. 84 (p. 233); Luer 1975c, f. 36; Misas Urreta 2005, p. 536, p. 537.

DISTRIBUTION: COL COS PAN.

TYPE: Costa Rica, *Acosta s.n.* [holotype, B, destroyed; lectotype, AMES-31280 (Luer 2005)].

VOUCHER: Colombia, *Misas Urreta 108* (HPUJ).

Note: AMES-31280 was superfluously selected as neotype by Luer (2023).

Pleurothallis excelsa Garay, *Caldasia* 10(47): 232–233. 1968. *Elongatia excelsa* (Garay) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 257. 2004. *Stelis excelsa* (Garay) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 262. 2001.

ILLUSTRATION: Luer 1994, pl. 2 (p. 75).

DISTRIBUTION: *COL.

TYPE: Colombia, *Mejia s.n.* (holotype, AMES; clonotypes, K, MO, SEL).

Pleurothallis flavomarginata A.Doucette, H.Medina & J.Portilla, *Phytotaxa* 295(2): 194. 2017.

ILLUSTRATION: Doucette *et al.* 2017, f. 1, 2.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Portilla s.n.* (holotype, QCNE).

VOUCHER: Colombia, *Zuluaga 4913* (CUVC).

Pleurothallis fonnegrae (Luer & Endara) J.M.H.Shaw, *Orchid Rev.* 122(1308): 76. 2014. *Acronia fonnegrae*

- grae* Luer & Endara, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 135, f. 87. 2005.
ILLUSTRATION: Luer 2005, f. 87 (p. 233).
DISTRIBUTION: *COL.
TYPE: Colombia, *Fonnegra 3496* (holotype, HUA, isotypes, MO, SEL).
- Pleurothallis forceps-cancri*** Luer & R.Escobar, Orquideología 14(2): 144. 1981. *Acronia forceps-cancri* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 57. 2005.
ILLUSTRATION: Luer & Escobar 1981a, p. 145; Luer 1998b, f. 32.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 612A* (holotype, SEL).
- Pleurothallis fossulata*** Luer & R.Escobar, Orquideología 21(1): 91–83. 1998. *Acronia fossulata* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 135. 2005.
ILLUSTRATION: Luer & Escobar 1998, p. 92, f. 9 (p. 98); Luer 2005, f. 88 (p. 234).
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Escobar 5203* (holotype, JAUM; isotype, MO).
- Pleurothallis franciana*** Sierra-Ariza, Lankesteriana 23(1): 36. 2023.
ILLUSTRATION: Sierra-Ariza 2023, f. 1, f. 2, f. 5a, f. 6d, f. 7c.
DISTRIBUTION: *COL.
TYPE: Colombia, *Sierra-Ariza & Bohorquez 430* (holotype, TOLI).
- Pleurothallis fugax*** Luer & R.Escobar, Orquideología 14(2): 146. 1981. *Acronia fugax* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 57. 2005.
ILLUSTRATION: Luer & Escobar 1981a, p. 147; Luer 1998b, f. 33.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 2352* (holotype, JAUM; isotype, SEL).
- Pleurothallis furcifera*** Luer, Selbyana 3: 108. 1976. *Ancipitia furcifera* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 254. 2004.
ILLUSTRATION: Luer 1989, pl. 10.
DISTRIBUTION: COL PER.
TYPE: Peru, *Luer 598* (holotype, SEL).
VOUCHER: Colombia, *Gutierrez 220* (JBB).
- Pleurothallis fustifera*** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 76: 173. 1999. *Lindleyalis fustifera* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 258. 2004.
ILLUSTRATION: Luer 1999a, f. 26a; Luer 2000a, f. 1 (p. 113); Rincón-González *et al.* 2020a, f. 4
DISTRIBUTION: COL PER.
TYPE: Peru, *Tokach P-48* (holotype, MO).
VOUCHER: Colombia, *Rincón et al. 1244* (TOLI-spirit).
- Pleurothallis ganymedes*** Luer & R.Escobar, Orquideología 14(2): 148. 1981. *Acronia ganymedes* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 136. 2005. *Zosterophyllanthos ganymedes* (Luer & R.Escobar) Szlach. & Marg., Polish Bot. J. 46: 119. 2001.
ILLUSTRATION: Luer & Escobar 1981a, p. 149; Luer 2005, f. 90 (p. 234).
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 4086* (holotype SEL; isotype JAUM).
- Pleurothallis garayana*** (Ospina) Luer, Selbyana 1: 90. 1975. *Colombiana garayana* Ospina, Orquideología 8: 232. 1973.
ILLUSTRATION: Luer 1989, pl. 2 (p. 59); Wilson *et al.* 2018a, f. 1b; Karremans & Vieira-Urbe 2020, p. 9.
DISTRIBUTION: *COL.
TYPE: Colombia, *Ospina 752* (holotype, Herb. Ospina).
- Pleurothallis genychila*** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 9: 74. 1921.
ILLUSTRATION: Luer 1999a, f. 11.
DISTRIBUTION: COL ECU PER.
TYPE: Peru, *Weberbauer 2135* (holotype, B, destroyed). Ecuador, *Luer et al. 3429* [neotype, SEL (Luer 1999a)].
VOUCHER: Colombia, *Bristol 811* (AMES).
- Pleurothallis giraldoi*** Luer, Orquideología 21(2): 125–127, f. 5. 1999. *Acronia giraldoi* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 138. 2005.
ILLUSTRATION: Luer 1999b, p. 126; Luer 2005, f. 94 (p. 235); Misas Urreta 2005, p. 541.
DISTRIBUTION: *COL.
TYPE: Colombia, *Giraldo & Olver 97* (holotype, TULV).
- Pleurothallis glabra*** Luer & R.Escobar, Orquideología 20: 56. 1996. *Acronia glabra* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 139. 2005.

- ILLUSTRATION: Luer & Escobar 1996, p. 59; Luer 2005, f. 95 (p. 235).
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 14187* (holotype, MO).
- Pleurothallis globosa*** Luer & R.Escobar, *Orquideología* 20: 60. 1996. *Acronia globosa* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 140. 2005.
ILLUSTRATION: Luer & Escobar 1996, p. 57 (top left), p. 61; Luer 2005, f. 96 (p. 236).
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 5012* (holotype, JAUM; isotype, MO).
- Pleurothallis glochis*** Luer & R.Escobar, *Orquideología* 14(2): 150. 1981. *Acronia glochis* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 57. 2005.
ILLUSTRATION: Luer & Escobar 1981a, p. 151; Luer 1998b, f. 34.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Luer 3735* (holotype, SEL).
- Pleurothallis glossopogon*** Rchb.f., *Bonplandia* (Hannover) 3: 71. 1855. *Humboldtia glossopogon* (Rchb.f.) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891. *Lindleyalis glossopogon* (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 258. 2004.
ILLUSTRATION: Luer 2000a, f. 2, f. 3 (p. 113).
DISTRIBUTION: COL VEN.
TYPE: Colombia, *Wagner s.n.* [L339] (holotype, W-R-0053212; isotype, K-L).
- Pleurothallis gomezii*** Luer & R.Escobar, *Orquideología* 20: 62. 1996. *Acronia gomezii* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 57. 2005.
ILLUSTRATION: Luer & Escobar 1996, p. 58 (bottom left), p. 63; Luer 1998b, f. 7.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 16789* (holotype, MO).
- Pleurothallis gonzaloi*** J.S. Moreno, *Rinc.-González & Gal.-Tar*, *Harvard Pap. Bot.* 27(2): 187–220. 2022.
ILLUSTRATION: Wilson *et al.* 2022, f. 20–22
DISTRIBUTION: *COL.
TYPE: Colombia, *Rincón & Moreno 1354* (holotype, TOLI).
- Pleurothallis gracilicolumna*** Mark Wilson, *Orquideología* 35(1): 35. 2018.
ILLUSTRATION: Wilson 2018, f. 9D, 10D, 12–14.
DISTRIBUTION: *COL.
TYPE: Colombia, *Mejía 002* (holotype, JAUM).
- Pleurothallis gracilipeduncolata*** Foldats, *Acta Bot. Venez.* 3: 374. 1968. *Acronia gracilipeduncolata* (Foldats) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 57. 2005.
ILLUSTRATION: Luer 1998b, f. 35.
DISTRIBUTION: COL VEN.
TYPE: Venezuela, *Dunsterville & Dunsterville 1031* (holotype, VEN).
VOUCHER: Colombia, *Luer 7581* (SEL).
- Pleurothallis grandiflora*** Lindl., *Edwards's Bot. Reg.* 21: sub. t. 1797. 1835. *Acronia grandiflora* (Lindl.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 140. 2005. *Zosterophyllanthos grandiflorus* (Lindl.) Szlach. & Marg., *Polish Bot. J.* 46(2): 119. 2001. *Humboldtia grandiflora* (Lindl.) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891.
ILLUSTRATION: Luer 2005, f. 97 (p. 236).
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Hall s.n.* (holotype, K-L, specimen on the right).
VOUCHER: Colombia, *Escobar 5026* (MO).
- Pleurothallis gratiosa*** Rchb.f., *Bonplandia* (Hannover) 2: 25. 1854. *Ancipitia gratiosa* (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 254. 2004. *Humboldtia gratiosa* (Rchb.f.) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891.
ILLUSTRATION: Luer 1989, pl. 11.
DISTRIBUTION: COL VEN.
TYPE: Venezuela, *Wagner 116* [lectotype (selected here), W-R-0025590, type illustr.].
VOUCHER: Colombia, *Acosta-Arteaga 581* (COL).
Note: The holotype seems to be lost. But the sheet marked as type at W-R bears several elements, including a very good full illustration which agrees with the protologue.
- Pleurothallis gustavoii*** Mark Wilson, *Orquideología* 34(1): 36. 2017.
ILLUSTRATION: Wilson *et al.* 2017d, f. 1–3.
DISTRIBUTION: *COL.
TYPE: Colombia, *Wilson & Aguirre PL1002* (holotype, JAUM).
- Pleurothallis habenula*** Luer & R.Escobar, *Orquideología* 14(2): 152. 1981. *Acronia habenula* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 58. 2005.

- ILLUSTRATION: Luer & Escobar 1981a, p. 153; Luer 1998b, f. 36; Ortiz & Medina 2012, f. 12.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Luer et al. 3119* (holotype, SEL).
- Pleurothallis harpago*** Luer, *Selbyana* 5(2): 167. 1979.
Ancipitia harpago (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 254. 2004.
ILLUSTRATION: Luer 1989, pl. 12.
DISTRIBUTION: COL PAN.
TYPE: Panama, *Luer 2798* (holotype, SEL).
VOUCHER: Colombia, *Hartman 12423B* (MO).
Note: A specimen collected exactly on the Panama/Colombia border was cited in Kolanowska (2014).
- Pleurothallis hartwegii*** Lindl., *Edwards's Bot. Reg.* 28: Misc. 80. 1842. *Humboldtia hartwegii* (Lindl.) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891.
ILLUSTRATION: Luer 1999a, f. 63.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Hartweg s.n.* (holotype, K-L-000820779; isotype, BM-000074384).
VOUCHER: Colombia, *Hartweg 1406* (K).
- Pleurothallis helleri*** A.D.Hawkes, *Phytologia* 14(1): 12–14. 1966.
ILLUSTRATION: Luer 1998b, f. 58.
DISTRIBUTION: COL COS ECU NIC.
TYPE: Nicaragua, *Heller s.n.* (holotype, F; isotype, AMES).
VOUCHER: Colombia, *Misas Urreta 265* (COL).
- Pleurothallis hemisphaerica*** Luer & R.Escobar, *Orquideología* 14(2): 154. 1981.
ILLUSTRATION: Luer & Escobar 1981a, p. 155; Luer 1999a, f. 64.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 2349* (holotype, SEL; isotype, JAUM).
- Pleurothallis hipocrepica*** Luer & R.Escobar, *Orquideología* 16(2): 165. 1984.
ILLUSTRATION: Luer & Escobar 1984b, p. 166; Luer 1999a, f. 12.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Escobar et al. 2704* (holotype, SEL).
- Pleurothallis hispidula*** (Luer & R.Escobar) J.M.H.Shaw, *Orchid Rev.* 122(1308): 77. 2014. *Acroria hispidula* Luer & R.Escobar, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 142, f. 100. 2005.
ILLUSTRATION: Luer 2005, f. 100 (p. 237).
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 8923* (holotype, SEL).
- Pleurothallis hitchcockii*** Ames, *Orchidaceae* 7: 117. 1922. *Talpinaria hitchcockii* (Ames) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 265. 2004.
ILLUSTRATION: Luer 2011, f. 60.
DISTRIBUTION: COL ECU GUY VEN.
TYPE: Guyana, *Hitchcock 17394* (holotype, AMES; isotype, HB).
VOUCHER: Colombia, *Callejas & Marulanda 6030* (HUA, MO).
- Pleurothallis holtonii*** Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 52: 76, 78, pl. 4. 1994. *Elongatia holtonii* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 257. 2004.
ILLUSTRATION: Luer 1994, pl. 4 (p. 79).
DISTRIBUTION: *COL.
TYPE: Colombia, *Holton s.n.* (holotype, NY).
- Pleurothallis homalantha*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 19: 24, 106. 1923. *Acroria homalantha* (Schltr.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 143, f. 102. 2005. *Zosterophyllanthos homalanthus* (Schltr.) Szlach. & Marg., *Polish Bot. J.* 46(2): 119. 2001. *Zosterophyllanthos homalanthus* (Schltr.) Szlach. & Kulak, *Richardiana* 6(4): 189. 2006, *nom. superfl.*
ILLUSTRATION: Luer 2005, f. 102 (p. 237).
DISTRIBUTION: COL COS HON NIC PAN.
TYPE: Costa Rica, *Brade 1160* [holotype, B, destroyed; lectotype, HB (Luer 2005), AMES-31260, illustration of type].
VOUCHER: Colombia, *Contreras s.n.* (UPTC).
Note: The HB specimen was superfluously selected as lectotype by Luer (2023).
- Pleurothallis imbaburæ*** Luer & Hirtz, *Lindleyana* 11(3): 163. 1996.
ILLUSTRATION: Luer 1999a, f. 14; Luer 1996c, f. 28.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 15167* (holotype, MO).
VOUCHER: Colombia, *Silverstone-Sopkin et al. 1606, 1627* (CUVC, MO).
- Pleurothallis imber-florum*** Luer & R.Escobar, *Orquideología* 16(2): 167. 1984.
ILLUSTRATION: Luer & Escobar 1984b, p. 168; Luer 1999a, f. 66.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 2451* (holotype, SEL).

- Pleurothallis incongrua*** Luer, Orquideología 21(2): 127–130. 1999. *Mixis incongrua* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 258. 2004. ILLUSTRATION: Luer 1999b, p. 128; Luer 2007, f. 1 (p. 104). DISTRIBUTION: *COL. TYPE: Colombia, *Silverstone-Sopkin et al. 2686* (holotype, CUVC; isotype, MO).
- Pleurothallis indecora*** Rodr.-Mart. & Karremans, Lankesteriana 17(2): 251. 2017. ILLUSTRATION: Karremans *et al.* 2017, f. 1, f. 5. DISTRIBUTION: *COL. TYPE: Colombia, *Rodríguez-Martínez & Rincón-Useche 084* (holotype, COL).
- Pleurothallis index*** Luer, Phytologia 47(2): 76. 1980. *Acronia index* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 145, f. 105. 2005. *Zosterophyllanthos index* (Luer) Szlach. & Kulak, Richardiana 6: 189. 2006. ILLUSTRATION: Luer 2005, f. 105 (p. 238). DISTRIBUTION: COL ECU. TYPE: Colombia, *Luer et al. 4582* (holotype, SEL).
- Pleurothallis inflata*** Rolfe, Bull. Misc. Inform. Kew 1894: 154. 1894. ILLUSTRATION: Luer 1999a, f. 67. DISTRIBUTION: COL VEN. TYPE: Venezuela, *Sander s.n.* (holotype, K). VOUCHER: Colombia, *Wagner s.n.* (W).
- Pleurothallis iris*** (Luer & Endara) J.M.H.Shaw, Orchid Rev. 122(1308): 77. 2014. *Acronia iris* Luer & Endara, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 145. 2005. ILLUSTRATION: Luer 2005, f. 106 (p. 238). DISTRIBUTION: *COL. TYPE: Colombia, *Luer et al. 8932* (holotype, MO).
- Pleurothallis jaculifera*** Luer & R.Escobar, Orquideología 21: 93. 1998. ILLUSTRATION: Luer & Escobar 1998, p. 94, f. 10 (p. 97); Luer 1999a, f. 68. DISTRIBUTION: *COL. TYPE: Colombia, *Luer et al. 16843* (holotype, JAUM; isotype, MO).
- Pleurothallis jaramilloi*** Luer, Orquideología 22(1): 56–58. 2001. *Acronia jaramilloi* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 146. 2005. *Zosterophyllanthos jaramilloi* (Luer) Szlach. & Kulak, Richardiana 6: 189. 2006. ILLUSTRATION: Luer 2001b, p. 57; Luer 2005, f. 108 (p. 239). DISTRIBUTION: *COL. TYPE: Colombia, *Jaramillo 20254* (holotype, COL; isotype, AMES).
- Pleurothallis juvenilis*** Rodr.-Mart. & Karremans, Lankesteriana 17(2): 253. 2017. ILLUSTRATION: Karremans *et al.* 2017, f. 2, f. 5. DISTRIBUTION: *COL. TYPE: Colombia, *Rodríguez-Martínez 275* (holotype, VALLE).
- Pleurothallis killipii*** Garay, Canad. J. Bot. 34: 254. 1956. *Acronia killipii* (Garay) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 147, f. 110. 2005. *Zosterophyllanthos killipii* (Garay) Szlach. & Marg., Polish Bot. J. 46: 119. 2001. ILLUSTRATION: Luer 2005, f. 110 (p. 239). DISTRIBUTION: *COL. TYPE: Colombia, *Killip 34061* (holotype, US; isotype, AMES).
- Pleurothallis lacera*** Luer, Selbyana 1(3): 248. 1975. *Acronia lacera* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 148. 2005. *Zosterophyllanthos lacer* (Luer) Szlach. & Marg., Polish Bot. J. 46: 119. 2001. ILLUSTRATION: Luer 2005, f. 111 (p. 239); Luer 1975f, f. 59. DISTRIBUTION: COL ECU. TYPE: Ecuador, *Luer et al. 550* (holotype, SEL). VOUCHER: Colombia, *Lehmann 6283* (K).
- Pleurothallis lacrima*** K.W.Holcomb, Pleurothallidinae 1(4): 1. 2022. ILLUSTRATION: Holcomb 2022b, f. 1-3. DISTRIBUTION: *COL. TYPE: Colombia? [uncertain origin], *Holcomb s.n.* (holotype, GEO-18024) Note: Described from a cultivated specimen from uncertain origin.
- Pleurothallis lamellaris*** Lindl., Fol. Orchid. ~Pleurothallis~ 8. 1859. *Humboldtia lamellaris* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. ILLUSTRATION: Luer 1999a, f. 69; Luer 1996c, f. 33. DISTRIBUTION: BOL COL ECU PER. TYPE: Bolivia, *Bridges s.n.* (holotype, K). VOUCHER: Colombia, *Escobar 8393* (MO)
- Pleurothallis languida*** Luer, Orquideología 21: 95. 1998. *Acronia languida* (Luer) Luer, Monogr. Syst.

Bot. Missouri Bot. Gard. 103: 58. 2005.

ILLUSTRATION: Luer & Escobar 1998, p. 96, f. 11 (p. 98); Luer 1998b, f. 10.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 17564* (holotype, MO).

Pleurothallis latipetala Garay, Orchid J. 1: 218. 1952. *Acronia latipetala* (Garay) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 148. 2005.

ILLUSTRATION: Wilson *et al.* 2018b, f. 1h; Luer 2005, f. 112 (p. 240).

DISTRIBUTION: *COL.

TYPE: Colombia, *von Sneidern 1602* (holotype, S; isotypes AMES).

Pleurothallis laurifolia Kunth, Nov. Gen. Sp. (quarto ed.) 1: 364. 1816. *Humboldtia laurifolia* (Kunth) Kuntze, Revis. Gen. Pl. 2: 667. 1891.

ILLUSTRATION: Luer 1991e, f. 489; Luer 1998b, f. 53.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Kunth s.n.* (holotype, P; isotypes, P).

Note: This name has remained mostly obscure in literature and was not monographed by Luer. However, three good specimens are available at P. It is our interpretation that *P. laurifolia* is an earlier name for *Pleurothallis chloroleuca* Lindl.

Pleurothallis leopardina Luer, Phytologia 49(3): 209. 1981.

ILLUSTRATION: Luer 1999a, f. 41; Luer 1996c, f. 10.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer et al. 6190* (holotype, SEL).

VOUCHER: Colombia, *Lehmann 7142* (K).

Pleurothallis lilijae Foldats, Acta Bot. Venez. 3: 379. 1968. *Acronia lilijae* (Foldats) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 150, f. 115a. 2005. *Zosterophyllanthos lilijae* (Foldats) Szlach. & Marg., Polish Bot. J. 46: 119. 2001.

ILLUSTRATION: Luer 2005, f. 115a (p. 240), f. 115b (p. 241).

DISTRIBUTION: BOL COL ECU VEN.

TYPE: Venezuela, *Steyermark & Dunsterville 98549* (holotype, VEN; isotype AMES).

VOUCHER: Colombia, *Luer 12540* (MO).

Pleurothallis lindenii Lindl., Ann. Mag. Nat. Hist. 12: 397. 1843. *Humboldtia lindenii* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891.

ILLUSTRATION: Luer & Escobar 1996, p. 35; Luer 1999a, f. 70.

DISTRIBUTION: COL ECU PER VEN.

TYPE: Venezuela, *Linden 630* (holotype, K; isotypes, AMES, BM-000082379, K-L, P, W).

VOUCHER: Colombia, *Luer 10189* (MO).

Pleurothallis linguifera Lindl., Fol. Orchid. ~Pleurothallis~ 10, n. 41. 1859. *Acronia linguifera* (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 151, f. 116. 2005. *Humboldtia linguifera* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Zosterophyllanthos linguifer* (Lindl.) Szlach. & Marg., Polish Bot. J. 46(2): 119. 2001.

ILLUSTRATION: Luer 2004, f. 10; Luer 2005, f. 116 (p. 241).

DISTRIBUTION: BOL COL ECU PER.

TYPE: Bolivia, *Bridges s.n.* (holotype, K).

VOUCHER: Colombia, *Luer 7561* (SEL).

Pleurothallis litotes Luer, Selbyana 5(2): 170. 1979.

ILLUSTRATION: Luer 1999a, f. 42.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer et al. 2700* (holotype, SEL).

VOUCHER: Colombia, *Luer 2997* (SEL).

Pleurothallis lobata Luer, Orquideología 20: 214. 1996. *Acronia lobata* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 58. 2005.

ILLUSTRATION: Luer 1996f, 213; Luer 1998b, f. 37.

DISTRIBUTION: *COL.

TYPE: Colombia, *Lehmann s.n.* (holotype, K).

Pleurothallis londonoi Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 61(4): 6. 1996. *Ancipitia londonoi* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 254. 2004.

ILLUSTRATION: Luer 1996b, pl. 24.

DISTRIBUTION: *COL.

TYPE: Colombia, *Londoño et al. 83* (holotype, HUA).

Pleurothallis lopezii Luer & R.Escobar, Orquideología 21: 102. 1998. *Acronia lopezii* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 58. 2005.

ILLUSTRATION: Luer & Escobar 1998, f. 13 (p. 98), p. 103; Luer 1998b, f. 12.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 8291* (holotype, JAUM; isotype, MO).

Pleurothallis loranthophylla Rchb.f., Bot. Zeitung (Berlin) 10(39): 674. 1852. *Humboldtia loranthophylla* (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 667.

1891. *Pleurothallis punctata* (H.Karst.) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 6: 63. 1919, *nom. illeg.* *Rhynchopera loranthophylla* (Rchb.f.) Szlach. & Marg., Polish Bot. J. 46(2): 118. 2001. *Rhynchopera punctata* H.Karst., Auswahl Gew. Venez. 21, t. 7. 1848. Non *Pleurothallis punctata* Ker Gawl. [1824].
ILLUSTRATION: Luer 1998a, f. 5 (p. 93).
DISTRIBUTION: BOL COL COS ECU PAN PER VEN.
TYPE: Venezuela, *Wagener 148* (holotype, W).
VOUCHER: Colombia, *Purdie s.n.* (K).
- Pleurothallis lueriana*** Karremans & Rodr.-Mart., Lankesteriana 17(2): 255. 2017.
ILLUSTRATION: Luer 2004, f. 9 (p. 242); Karremans *et al.* 2017, f. 3, f. 5.
DISTRIBUTION: *COL.
TYPE: Colombia, *Rodríguez-Martínez 220* (holotype, COL).
- Pleurothallis lunaris*** Luer & R.Escobar, Orquideología 14(2): 158. 1981. *Acronia lunaris* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 153, f. 119. 2005. *Zosterophyllanthos lunaris* (Luer & R.Escobar) Szlach. & Kulak, Richardiana 6: 190. 2006.
ILLUSTRATION: Luer & Escobar 1981a, p. 159; Luer 2005, f. 119 (p. 242).
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 1156* (holotype, JAUM).
- Pleurothallis macrocardia*** Rchb.f., Bonplandia (Hannover) 3: 72. 1855. *Acronia macrocardia* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 155. 2005. *Humboldtia macrocardia* (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 667. 1891.
ILLUSTRATION: Luer 2005, f. 122 (p. 242).
DISTRIBUTION: BOL COL ECU.
TYPE: Colombia, *Wagener s.n.* (holotype, W).
- Pleurothallis macrophylla*** Kunth, Nov. Gen. Sp. (quarto ed.) 1: 365. 1816. *Elongatia macrophylla* (Kunth) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 257. 2004. *Humboldtia macrophylla* (Kunth) Kuntze, Revis. Gen. Pl. 2: 667. 1891.
ILLUSTRATION: Luer 1994, pl. 6 (p. 83); Uribe-Velez *et al.* 2022a, p. 3–7; Uribe-Velez *et al.* 2022b, p. 4–6.
DISTRIBUTION: *COL.
TYPE: Colombia, *Humboldt & Bonpland s.n.* (holotype, P).
- Pleurothallis magnifica*** Luer & R.Escobar, Orquideología 16(2): 169. 1984.
ILLUSTRATION: Luer & Escobar 1984b, p. 170; Luer 1999a, f. 71.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer & Escobar 8374* (holotype, SEL).
- Pleurothallis manicosa*** Luer & R.Escobar, Orquideología 20: 66. 1996.
ILLUSTRATION: Luer & Escobar 1996, p. 57 (top right), p. 67; Luer 1999a, f. 18.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 17554* (holotype, JAUM; isotype, MO).
- Pleurothallis marthae*** Luer & R.Escobar, Orquideología 20: 68. 1996. *Acronia marthae* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 157. 2005. *Zosterophyllanthos marthae* (Luer & R.Escobar) Szlach., Ill. Field Guide Orchids Yotoco Forest Reserve 279. 2011, *nom. superfl.* *Zosterophyllanthos marthae* (Luer & R.Escobar) Szlach. & Kulak, 134. 2006.
ILLUSTRATION: Luer & Escobar 1996, p. 69; Luer 2005, f. 125 (p. 243).
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 16689* (holotype, JAUM; isotype, MO).
- Pleurothallis mark-wilsonii*** J.S.Moreno, Gal-Tar & Sierra-Ariza, Phytotaxa 568(3): 285. 2022.
ILLUSTRATION: Moreno *et al.* 2022c, f. 1, f. 2.
DISTRIBUTION: *COL.
TYPE: Colombia, *Galindo-Tarazona & Mora 3927* (holotype, CUVC).
- Pleurothallis matudana*** C.Schweinf., Bot. Mus. Leaflet 5(6): 102–103. 1938. *Acronia matudana* (C.Schweinf.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 158–159. 2005. *Zosterophyllanthos matudanus* (C.Schweinf.) Szlach. & Marg., Polish Bot. J. 46(2): 120. 2001.
ILLUSTRATION: Luer 2005, f. 127a, f. 127b (p. 244).
DISTRIBUTION: BOL COL COS ECU ELS GUA HON MEX NIC PER.
TYPE: Mexico, *Matuda 1577* (holotype, AMES).
VOUCHER: Colombia, *Franco 7968* (COL).
- Pleurothallis mahechae*** J.S. Moreno, Sierra-Ariza & L.C.Pina, Harvard Pap. Bot. 27(2): 213. 2022.
ILLUSTRATION: Wilson *et al.* 2022, f. 23–26.

- DISTRIBUTION: *COL.
 TYPE: Colombia, *Santafé Millán & Suarez Romero s.n.* (holotype, HUEB-TRA-3855).
- Pleurothallis medusa*** Luer, *Lindleyana* 12(1): 51. 1997.
 ILLUSTRATION: Luer 1998b, f.59.
 DISTRIBUTION: COL ECU.
 TYPE: Unknown, *O-1613* (holotype, W).
 VOUCHER: Colombia, *Rincón 274* (TOLI).
 Note: The type locality was assumed to be San José, Costa Rica, but Colombia is more likely. The collector, who signed only with a Greek Phi, is unknown but suggested to be Kalbreyer.
- Pleurothallis megalorhina*** Luer & R.Escobar, *Orquideología* 20: 71. 1996. *Acronia megalorhina* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 159. 2005.
 ILLUSTRATION: Luer & Escobar 1996, p. 72; Luer 2005, f. 129 (p. 244).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 11389* (holotype, MO).
- Pleurothallis membracidoides*** Luer, *Phytologia* 47(2): 77. 1980. *Ancipitia membracidoides* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 254. 2004.
 ILLUSTRATION: Luer 1989, pl. 15.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 4580* (holotype, SEL).
- Pleurothallis microcardia*** Rchb.f., *Bonplandia* (Hannover) 3: 72. 1855. *Acronia microcardia* (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 160. 2005. *Humboldtia microcardia* (Rchb.f.) Kuntze, *Revis. Gen. Pl.* 2: 668. 1891.
 ILLUSTRATION: Luer 2005, f. 130, f. 131, f. 132 (p. 245).
 DISTRIBUTION: BOL COL ECU VEN.
 TYPE: Colombia, *Wagener 610* (holotype, W; isotype, K).
- Pleurothallis millei*** Schltr., *Repert. Spec. Nov. Regni Veg.* 14: 131. 1914 [1915]. *Acronia millei* (Schltr.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 162. 2005. *Zosterophyllanthos millei* Szlach. & Kulak, *Richardiana* 6: 190. 2006.
 ILLUSTRATION: Luer 2005, f. 133 (p. 245).
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Mille 35* (holotype, B, destroyed). Ecuador, Luer & Kent 273 [neotype, SEL (Luer 2005)].
 VOUCHER: Colombia, *Ramos 6104* (COL).
- Pleurothallis miranda*** Luer, *Phytologia* 46(6): 369. 1980. *Mirandopsis miranda* (Luer) Szlach. & Marg., *Polish Bot. J.* 46(2): 117. 2001 [2002].
 ILLUSTRATION: Luer 2007, pl. 22.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer 4372* (holotype, SEL).
 VOUCHER: Colombia, *Funck 1441* (MPU).
- Pleurothallis mocoana*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 49. 1924. *Specklinia mocoana* (Schltr.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 262. 2004.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Hopp 69* (syntype, B, destroyed). Colombia, *Hopp 77* (syntype, B, destroyed).
 Note: Nothing remains of the type material and the placement of this species is uncertain. The description suggests a species of *Acianthera*, but it could also be a *Specklinia*.
- Pleurothallis mundiflorae*** K.W.Holcomb ex Karreman, *sp. nov.*
Pleurothallis mundiflorae K.W.Holcomb, *Pleurothallidinae* 2(1): 1. 2023, *nom. inval.*
 ILLUSTRATION: Holcomb 2023, f. 1, f. 2
 DISTRIBUTION: COL ECU?
 TYPE: Ecuador? [uncertain origin], *Holcomb s.n.* (holotype, GEO-18302).
 VOUCHER: A photographic voucher of a Colombian specimen reproduced in Holcomb 2023, f. 2.
 Note: This taxon was published invalidly because the type is a mixture of two localities of the two gatherings discussed in the text, a specimen of uncertain origin allegedly from Ecuador and an *in situ* photograph of a specimen from Valle de Sibundoy in Colombia.
- Pleurothallis mundula*** Luer & R.Escobar, *Orquideología* 16(1): 26. 1983.
 ILLUSTRATION: Luer & Escobar 1983, p. 27; Luer 1999a, f. 73.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 7502* (holotype, SEL; isotypes, COL, JAUM).
- Pleurothallis narinoensis*** Rykacz. & Kolan., *Polish Bot. J.* 61(2): 250. 2016.
 ILLUSTRATION: Rykaczewski & Kolanowska 2016, f. 1.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Garay et al. 424* (holotype, MO).

- Pleurothallis nasiterna*** Luer, *Phytologia* 49(3): 212. 1981.
 ILLUSTRATION: Luer 1999a, f. 20.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 6287* (holotype, SEL).
 VOUCHER: Colombia, *André s.n.* (K).
- Pleurothallis navilinguis*** Rchb.f., *Bonplandia* (Hannover) 3: 72. 1855. *Humboldtia navilinguis* (Rchb.f.) Kuntze, *Revis. Gen. Pl.* 2: 668. 1891.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Wagner s.n.* (holotype, W).
 Note: An obscure taxon, no type specimen located.
- Pleurothallis neorinkei*** A.Doucette, *Orquideología* 33(2): 130. 2016. *Acronia rinkei* Luer, *Harvard Pap. Bot.* 16: 316, f. 6. 2011.
 ILLUSTRATION: Luer 2011, f. 6; Doucette *et al.* 2016a, f. 6.
 DISTRIBUTION: COL ECU?
 TYPE: Ecuador, *Rinke 0701* (holotype, MO).
 VOUCHER: A photographic voucher of a Colombian specimen reproduced in Doucette *et al.* 2016a, f. 6.
- Pleurothallis nossax*** Luer & R.Escobar, *Orquideología* 14(2): 160. 1981. *Acronia nossax* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 164. 2005. *Zosterophyllum nossax* (Luer & R.Escobar) Szlach. & Kulak, *Richardiana* 6: 191. 2006.
 ILLUSTRATION: Luer & Escobar 1981a, p. 161; Luer 2005, f. 138 (p. 247).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar et al. 1520* (holotype, JAUM).
- Pleurothallis notabilis*** Luer & R.Escobar, *Orquideología* 14(2): 162. 1981.
 ILLUSTRATION: Luer & Escobar 1981a, p. 163; Luer 1998b, f. 60.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 2085* (holotype, SEL; isotype, JAUM).
- Pleurothallis nox-media*** Luer & R.Escobar, *Orquideología* 21: 104. 1998. *Acronia nox-media* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 58. 2005.
 ILLUSTRATION: Luer & Escobar 1998, p. 105; Luer 1998b, f. 14.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 17987* (holotype, MO).
- Pleurothallis nuda*** (Klotzsch) Rchb.f., *Ann. Bot. Syst.* 6: 184. 1861. *Lindleyalis nuda* (Klotzsch) Luer & Thorerle, *Harvard Pap. Bot.* 17(2): 368. 2012. *Restrepia nuda* Klotzsch, *Allg. Gartenzeitung* 20: 275. 1852.
 ILLUSTRATION: Luer 1975a, f. 10 (p. 77); Luer 2000a, f. 4 (p. 113).
 DISTRIBUTION: BOL COL ECU PER VEN.
 TYPE: Venezuela, *Wagner 91* (holotype, W-R-0025589).
 VOUCHER: Colombia, *Linden s.n.* (W).
- Pleurothallis nutans*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 165. 1924.
 ILLUSTRATION: Luer & Escobar 1983, p. 21; Luer 1999a, f. 74.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Schnitter s.n.* (holotype, B, destroyed). Colombia, *Luer et al. 7922* [neotype (selected here), SEL; isoneotype, JAUM].
 Note: Luer (1999) selected *Luer et al. 7922* as neotype, but failed to specify which one of two cited specimens (SEL and JAUM). It is important to note that this is the type number of *Pleurothallis decora* Luer & R.Escobar, which therefore is rendered conspecific.
- Pleurothallis octavioi*** Luer & R.Escobar, *Orquideología* 14(2): 164. 1981. *Acronia octavioi* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 165. 2005. *Zosterophyllum octavioi* (Luer & R.Escobar) Szlach. & Kulak, *Richardiana* 6: 191. 2006.
 ILLUSTRATION: Luer & Escobar 1981a, p. 165; Luer 1991e, f. 492; Luer 2005, f. 140 (p. 247); Wilson *et al.* 2018b, f. 1i.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 3725* (holotype, SEL).
- Pleurothallis odobeniceps*** Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 31: 38, pl. 17. 1989. *Ancipitia odobeniceps* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 255. 2004.
 ILLUSTRATION: Luer 1989, pl. 17.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Zarucchi et al. 5950* (holotype, MO).
- Pleurothallis orecta*** Luer & R.Escobar, *Orquideología* 20(1): 75. 1996. *Acronia orecta* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.*

103: 58. 2005.

ILLUSTRATION: Luer & Escobar 1996, p. 57 (left middle), p. 76; Luer 1998b, f.38.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 5106* (holotype, JAUM; isotype, MO).

Pleurothallis orthostachys Luer & R.Escobar, *Orquideología* 16(2): 171. 1994.

ILLUSTRATION: Luer & Escobar 1984b, p. 172; Luer 1999a, f. 75.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Escobar & Valencia 2622* (holotype, SEL).

Pleurothallis ottocarii Rodr.-Mart., Rinc.-Useche & Karremans, *Syst. Bot.* 40(1): 75. 2015.

ILLUSTRATION: Wilson *et al.* 2018a, f. 1c.

DISTRIBUTION: *COL.

TYPE: Colombia, *Rodríguez-Martínez & Rincón-Useche 057* (holotype, COL).

Pleurothallis paraniesseniae J.M.H.Shaw, *Orchid Rev.* 122(1308): 77. 2014. *Acronia niesseniae* Luer, *Harvard Pap. Bot.* 16(2): 314, 5. 2011.

ILLUSTRATION: Luer 2011, f. 5.

DISTRIBUTION: *COL.

TYPE: Colombia, *Niessen 02/11* (holotype, MO).

Pleurothallis pedunculata (Link, Klotzsch & Otto) Rchb.f., *Linnaea* 22: 822. 1849. *Humboldtia pedunculata* (Link, Klotzsch & Otto) Kuntze, *Revis. Gen. Pl.* 2: 668. 1891. *Rhynchospora pedunculata* Link, Klotzsch & Otto, *Icon. Pl. Rar.* 2: 103, t. 41. 1844.

ILLUSTRATION: Luer 1998a, f. 7 (p. 93).

DISTRIBUTION: COL VEN.

TYPE: Venezuela, *Otto s.n.* (holotype, W).

VOUCHER: Colombia, *Escobar 8270* (MO).

Pleurothallis penduliflora Kraenzl., *Repert. Spec. Nov. Regni Veg.* 1: 177. 1905.

ILLUSTRATION: Luer & Escobar 1981a, p. 135; Luer 1999a, f. 22, f. 23.

DISTRIBUTION: COL ECU PER.

TYPE: Peru, *Weberbauer 2118* [holotype, B, destroyed; lectotype, MOL (selected here); photo of type, AMES, F]. Peru, *Vargas 18426* [neotype, AMES; isoneotype, CUZ (Luer 1999a); rejected here].

VOUCHER: Colombia, *Escobar et al. 956* (holotype, JAUM).

Note: The holotype of this taxon was lost at Berlin. Luer (1999) selected a neotype based on a differ-

ent collection, but an isotype and photographs of the holotype are available for lectotypification. The neotype is here rejected in favor of selecting the isotype as lectotype.

Pleurothallis penicillata Luer, *Phytologia* 47(2): 78. 1980. *Colombiana penicillata* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 256. 2004.

ILLUSTRATION: Luer 1989, pl. 3 (p. 61).

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 4610* (holotype, SEL).

Pleurothallis perijaensis Dunst., *Selbyana* 2(2/3): 210. 1978. *Acronia perijaensis* (Dunst.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 171. 2005. *Zosterophyllanthos perijaensis* (Dunst.) Szlach. & Marg., *Polish Bot. J.* 46: 120. 2001.

ILLUSTRATION: Luer 2005, f. 153 (p. 250).

DISTRIBUTION: COL ECU VEN.

TYPE: Venezuela, *Steyermark & Dunsterville 105666* (holotype, VEN; isotype, AMES).

VOUCHER: Colombia, *Escobar 7778* (COL).

Pleurothallis petroana Sierra-Ariza, *Lankesteriana* 23(1): 39. 2023.

ILLUSTRATION: Sierra-Ariza 2023, f. 3, f. 4, f. 5b, f. 6a, f. 7e.

DISTRIBUTION: *COL.

TYPE: Colombia, *Sierra-Ariza & Bohorquez 194* (holotype, TOLI)

Pleurothallis phalangifera (C.Presl) Rchb.f., *Ann. Bot. Syst.* 6: 168. 1861. *Pleurothallis phalangifera* (C.Presl) Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 9: 141. 1921, *nom. superfl.* *Acronia phalangifera* C.Presl, *Reliq. Haenk.* 1(2): 104. 1827. *Humboldtia phalangifera* (C.Presl) Kuntze, *Revis. Gen. Pl.* 2: 668. 1891.

ILLUSTRATION: Luer 1998b, f. 16.

DISTRIBUTION: COL ECU PER VEN.

TYPE: Peru, *Haenke s.n.* (holotype, PR?).

VOUCHER: Colombia, *Linden 1271* (K, W).

Pleurothallis phratrria Luer & Hirtz, *Lindleyana* 11(3): 179. 1996.

ILLUSTRATION: Luer 1999a, f. 77; Luer 1996c, f. 48.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Hirtz & Dodson 2028* (holotype, MO).

VOUCHER: Colombia, *Hartmann 115* (CUVC).

Pleurothallis phyllocardioides Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 19: 193. 1923. *Acronia*

- phyllocardioides* (Schltr.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 174–176. 2005. *Zosterophyllanthos phyllocardioides* (Schltr.) Szlach. & Kulak, Richardiana 6(4): 192. 2006, *nom. superfl.* *Zosterophyllanthos phyllocardioides* (Schltr.) Szlach. & Marg., Polish Bot. J. 46(2): 120. 2001. ILLUSTRATION: Luer 2005, f. 158a, f. 158b, f.158c (p. 252). DISTRIBUTION: BOL COL COS ECU GUA GUY NIC PAN PER VEN. TYPE: Costa Rica, Brenes 290 [holotype, B, destroyed; isotypes, AMES-56387, NY; drawing of type, AMES]. VOUCHER: Colombia, *Gentry 56778* (MO).
- Pleurothallis pileata*** Luer & R.Escobar, Orquideología 15(2–3): 142. 1982. *Acronia pileata* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 176. 2005. ILLUSTRATION: Luer & Escobar 1982, p. 143; Luer 2005, f. 160 (p. 253). DISTRIBUTION: *COL. TYPE: Colombia, *Luer 6723* (holotype, SEL).
- Pleurothallis platypetala*** Luer & R.Escobar, Orquideología 20: 78. 1996. *Acronia platypetala* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 177. 2005. ILLUSTRATION: Luer & Escobar 1996, p. 77; Luer 2005, f. 161 (p. 253). DISTRIBUTION: *COL. TYPE: Colombia, *Luer et al. 12539* (holotype, MO).
- Pleurothallis platysepala*** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 111. 1920. *Acronia platysepala* (Schltr.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 178. 2005. ILLUSTRATION: Luer & Escobar 1984b, p. 163; Luer 1991e, f. 490; Luer 2005, f. 162 (p. 253); Wilson *et al.* 2018b, f. 11. DISTRIBUTION: *COL. TYPE: Colombia, *Lehmann 6930* [holotype, B, destroyed; lectotype (selected here), K-000584312; isolectotype, K-000584310].
- Pleurothallis poculifera*** Luer & R.Escobar, Orquideología 14(2): 166. 1981. ILLUSTRATION: Luer & Escobar 1981a, p. 167; Luer 1999a, f. 43. DISTRIBUTION: *COL. TYPE: Colombia, *Luer 3008* (holotype, SEL).
- Pleurothallis polysticta*** Luer, Selbyana 5(2): 176. 1979. *Acronia polysticta* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 58. 2005. ILLUSTRATION: Luer 1998b, f.17. DISTRIBUTION: *COL. TYPE: Panama, *Luer 2799* (holotype, SEL). VOUCHER: Colombia, *Luer 16889* (MO).
- Pleurothallis prolaticollaris*** Luer, Selbyana 3(3,4): 368. 1977. *Acronia prolaticollaris* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 179. 2005. *Pleurothallis prolaticollaris* Luer, Selbyana 3(3,4): 368. 1977. ILLUSTRATION: Luer 2005, f. 164 (p. 254). DISTRIBUTION: COL ECU. TYPE: Ecuador, *Luer & Kent 334* (holotype, SEL). VOUCHER: Colombia, *Monsalve 1420* (MO).
- Pleurothallis pruinosa*** Lindl., Edwards's Bot. Reg. 28: Misc. 75–76. 1842. *Humboldtia pruinosa* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. ILLUSTRATION: Luer 1999a, f. 44, Stenzel 2004, f. 31; Luer 1975f, f. 68; Misas Urrreta 2005, p. 553. DISTRIBUTION: BRA COL COS CUB DOM ECU ELS GUA GUY HON JAM L.A. NIC PAN PER PUE SUR VEN. TYPE: Suriname, *Splitgerber 527* (holotype, K; isotype, W). VOUCHER: Colombia, *Cuatrecasas 14049* (AMES).
- Pleurothallis pulvinaris*** Luer & R.Escobar, Orquideología 16(2): 176. 1984. ILLUSTRATION: Luer & Escobar 1984b, p. 177; Luer 1999a, f. 25. DISTRIBUTION: *COL. TYPE: Colombia, *Escobar et al. 2685* (holotype, SEL; isotype, JAUM).
- Pleurothallis punctulata*** Rolfe, Gard. Chron., ser. 3 4(105): 756. 1888. *Humboldtia punctulata* (Rolfe) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Talpinaria punctulata* (Rolfe) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 265. 2004. ILLUSTRATION: Luer 1998a, f. 2 (p. 100). DISTRIBUTION: COL VEN. TYPE: Colombia, *Veitch s.n.* (holotype, K).
- Pleurothallis quadricaudata*** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 112. 1920. *Acronia quadricaudata* Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 58. 2005. ILLUSTRATION: Luer 1998b, f.40.

- DISTRIBUTION: *COL.
 TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 39, No. 149)].
- Pleurothallis quadrifida*** (Lex.) Lindl., Edwards's Bot. Reg. 28: Misc. 70. 1842. *Dendrobium quadrifidum* Lex., Nov. Veg. Descr. 2(Orchid. Opusc.): 40. 1825. *Humboldtia quadrifida* (Lex.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Lalexia quadrifida* (Lex.) Luer, Harvard Pap. Bot. 16: 358. 2011. *Loddigesia quadrifida* (Lex.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 251. 2006. *Specklinia quadrifida* (Lex.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 263. 2004. *Stelis quadrifida* (Lex.) Solano & Soto Arenas, Icon. Orchid. (Mexico) 5–6: xi. 2002 [2003].
 ILLUSTRATION: Luer 2000a, f. 34; Luer 1975c, f. 38; Stenzel 2004, f. 17.
 DISTRIBUTION: COL COS CUB DOM ELS GUA HAI HON JAM L.A. MEX NIC PUE VEN.
 TYPE: Mexico, *Hilton 13643* [neotype, ARIZ-12480 (Meneguzzo & van den Berg 2020)].
 VOUCHER: Colombia, *Yepes 211* (UTMC).
- Pleurothallis quaternaria*** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 72: 31. 1998. *Acronia quaternaria* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 58. 2005.
 ILLUSTRATION: Luer 1998b, f.41.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 18418* (holotype, MO).
- Pleurothallis queremalensis*** Rinc.-Useche, Rodr.-Mart. & Karremans, Lankesteriana 17(2): 257. 2017.
 ILLUSTRATION: Karremans *et al.* 2017, f. 4, f. 5.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Rodríguez-Martínez & Rincón-Useche 092* (holotype, VALLE).
- Pleurothallis questionis*** Luer & R.Escobar, Orquideología 10: 79. 1996.
 ILLUSTRATION: Luer & Escobar 1996, p. 57 (bottom left), p. 80; Luer 1999a, f. 85.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 16803* (holotype, MO).
- Pleurothallis radula*** Luer, Selbyana 5(2): 177–178. 1979. *Acronia radula* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 179. 2005. *Zosterophyllanthos radula* (Luer) Szlach. & Marg., Polish Bot. J. 46(2): 120. 2001.
 ILLUSTRATION: Luer 2005, f. 165 (p. 254); Pupulin *et al.* 2021, f. 2(26), f. 7, f. 47, f. 48a–c.
 DISTRIBUTION: COL COS.
 TYPE: Costa Rica, Luer *et al.* 4251 (holotype, SEL; isotype, K).
 VOUCHER: Colombia, *Luer et al. 10097* (MO, US).
- Pleurothallis ramificans*** Luer, Phytologia 46(6): 371. 1980.
 ILLUSTRATION: Luer 1999a, f. 26.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 3920* (holotype, SEL).
 VOUCHER: Colombia, *Lehmann 7159* (AMES, K).
- Pleurothallis ramiromedinae*** Thoele & Hirtz, OrchideenJ. 6(1): 6. 2018.
 ILLUSTRATION: Thoele *et al.* 2018, p. 6–8.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Hirtz 10943* (holotype, Univ. Católica de Ibarra).
 VOUCHER: No Colombian voucher appears to be available, but see Thoele *et al.* (2018).
- Pleurothallis ramosii*** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 72: 32. 1998. *Acronia ramosii* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 58. 2005.
 ILLUSTRATION: Luer 1998b, f. 42.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Ramos et al. 1224* (holotype, CUCV; isotype, MO).
- Pleurothallis reginae*** Garay, Svensk Bot. Tidskr. 47: 210. 1953. *Acronia reginae* (Garay) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 181. 2005. *Zosterophyllanthos reginae* (Garay) Szlach. & Kulak, Richardiana 6: 192. 2006.
 ILLUSTRATION: Garay 1953, f. 7.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *von Sneidern 811* (holotype, S-R-4971).
- Pleurothallis restrepioides*** Lindl., Companion Bot. Mag. 2: 356. 1836. *Elongatia restrepioides* (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 257. 2004. *Humboldtia restrepioides* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Stelis restrepioides* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16(4): 266. 2001.
 ILLUSTRATION: Luer 1975a, f. 14 (p. 85); Luer 1994, pl. 7 (p. 85).

DISTRIBUTION: COL ECU PER.

TYPE: Peru, *Mathews s.n.* (holotype, K; isotype, BM-000082426).

VOUCHER: Colombia, *Escobar 5020* (MO).

Pleurothallis revoluta (Ruiz & Pav.) Garay, *Caldasia* 8(40): 520. 1962. *Humboldtia revoluta* Ruiz & Pav., Fl. Peruv. Prodr. 235. 1794. *Stelis revoluta* (Ruiz & Pav.) Willd., Sp. Pl. 4: 140. 1806.

ILLUSTRATION: Luer 1999a, f. 27; Luer 1975f, f. 71; Pupulin 2013, f. 36c.

DISTRIBUTION: BOL COL ECU L.A. PER VEN.

TYPE: Peru, *Ruiz & Pavón* (holotype, MA).

VOUCHER: Colombia, *Escobar 5020* (MO).

Pleurothallis rhodoglossa Schltr., Repert. Spec. Nov. Regni Veg. Beih. 17: 22–23. 1922. *Acronia rhodoglossa* (Schltr.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 182. 2005. *Zosterophyllanthos rhodoglossus* (Schltr.) Szlach. & Marg., Polish Bot. J. 46(2): 120. 2001.

ILLUSTRATION: Luer 2005, f. 169a, f. 169b (p. 255).

DISTRIBUTION: COL COS ECU PAN.

Panama, *Powell 182* [holotype, B, destroyed; lectotype (Christenson 1991), MO-956015; isolectotype, AMES].

VOUCHER: Colombia, *Luer 8452* (SEL).

Pleurothallis rowleei Ames, Sched. Orch. 1: 11–12. 1922. *Acronia rowleei* (Ames) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 58. 2005.

ILLUSTRATION: Luer 1998b, f.18; Misas Urreta 2005, p. 558, p. 559.

DISTRIBUTION: COL COS ECU PAN.

TYPE: Costa Rica, *Rowlee 236* (holotype, AMES).

VOUCHER: Colombia, *von Sneidern 1603* (S, AMES).

Pleurothallis ruberrima Lindl., Orchid. Linden. 1, n. 5. 1846. *Acronia ruberrima* (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 184. 2005. *Humboldtia ruberrima* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Zosterophyllanthos ruberrimus* (Lindl.) Szlach. & Kulak, *Richardiana* 6: 192. 2006. ILLUSTRATION: Luer 2005, f. 172a, f. 172b, f.172c (p. 256); Luer 1975f, f. 72.

DISTRIBUTION: BOL COL ECU PER VEN.

TYPE: Venezuela, *Linden 670* (holotype, K-L).

VOUCHER: Colombia, *Schneider 404* (S).

Pleurothallis rugosa Luer & R.Escobar, *Orquideología* 15(2–3): 147. 1982. *Acronia rugosa* (Luer

& R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 185. 2005.

ILLUSTRATION: Luer & Escobar 1982, p. 148; Luer 2005, f. 174 (p. 257).

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 3053* (holotype, SEL).

Pleurothallis ruscaria Luer, *Phytologia* 47: 79. 1980. *Colombiana ruscaria* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 256. 2004.

ILLUSTRATION: Luer 1989, pl. 4 (p. 63); Wilson *et al.* 2018a, f. 1d.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Luer et al. 4611* (holotype, SEL).

Pleurothallis ruscifolia (Jacq.) R.Br., Hort. Kew. (ed. 2) 5: 211. 1813. *Dendrobium ruscifolium* (Jacq.) Sw., Nova Acta Regiae Soc. Sci. Upsal. 6: 84. 1799. *Epidendrum ruscifolium* Jacq., Enum. Syst. Pl.: 29. 1760. *Humboldtia ruscifolia* (Jacq.) Kuntze, Revis. Gen. Pl. 2: 668. 1891.

ILLUSTRATION: Luer 1975a, f. 15 (p. 87); Stenzel 2004, f. 34; Luer 1998b, f.61; Misas Urreta 2005, p. 550, p. 551, p. 560, p. 561.

DISTRIBUTION: BOL BRA COL COS CUB DOM ECU GUA HAI JAM L.A. PAN PER PUE VEN.

TYPE: Martinique, *Plumier s.n.* [lectotype, W (Szlachetko *et al.* 2012)].

VOUCHER: Colombia, *Luer 11379* (MO).

Pleurothallis sagittilabia Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 72: 32, f. 43. 1998. *Acronia sagittilabia* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 58. 2005.

ILLUSTRATION: Luer 1999b, p. 131; Luer 1998b, f. 43.

DISTRIBUTION: *COL.

TYPE: Colombia, *Giraldo & Olver 557* (holotype, TULV; isotype, MO).

Pleurothallis sandemanii Luer, *Orquideología* 22: 222. 1996. *Talpinaria sandemanii* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 265. 2004.

ILLUSTRATION: Luer 1996f, 223; Luer 1998a, f. 3 (p. 100).

DISTRIBUTION: *COL.

TYPE: Colombia, *Sandeman 5872* (holotype, K).

Pleurothallis sanluisii Foldats, *Acta Bot. Venez.* 3: 390. 1968. *Acronia sanluisii* (Foldats) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 58. 2005.

ILLUSTRATION: Luer 1998b, f.19.

DISTRIBUTION: COL VEN.

TYPE: Venezuela, *Steryermark 98995* (holotype, VEN; isotype, M).

VOUCHER: Colombia, *Luer 18560A* (MO).

Pleurothallis sannio Luer & R.Escobar, *Orquideología* 21(1): 106–108. 1998. *Acronia sannio* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 187. 2005.

ILLUSTRATION: Luer & Escobar 1998, p. 107; Luer 2005, f. 178 (p. 258).

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 17624* (holotype, MO).

Pleurothallis scabrilinguis Lindl., *Companion Bot. Mag.* 2: 354. 1836. *Acronia scabrilinguis* (Lindl.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 188. 2005. *Humboldtia scabrilinguis* (Lindl.) Kuntze, *Revis. Gen. Pl.* 2: 668. 1891. *Zosterophyllanthos scabrilinguis* (Lindl.) Szlach. & Marg., *Polish Bot. J.* 46: 120. 2001. ILLUSTRATION: Luer 2005, f. 180 (p. 259); Luer 1975f, f. 76.

DISTRIBUTION: COL ECU PER.

TYPE: Peru, *Matthews 1904* (holotype, K-L-000584193; isotypes, BR, K-L, W).

VOUCHER: Colombia, *De Wilde 4317* (MO).

Pleurothallis secunda Poepp. & Endl., *Nov. Gen. Sp.* Pl. 1: 49, pl. 85. 1836. *Humboldtia secunda* (Poepp. & Endl.) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891. *Pleurothallis secunda* var. *secunda*

ILLUSTRATION: Luer 1999a, f. 31; Luer 1975f, f. 78.

DISTRIBUTION: COL ECU PER.

TYPE: Peru, *Poeppig 1746* (holotype, W).

VOUCHER: Colombia, *Zarucchi & Bedoya 4461* (HUA, MO).

Pleurothallis sergioi Luer & R.Escobar, *Orquideología* 22(3): 272. 2003. *Acronia sergioi* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 191. 2005.

ILLUSTRATION: Luer 2003c, p. 274; Luer 2005, f. 184 (p. 260).

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 2958* (holotype, SEL).

Pleurothallis semiscabra Lindl., *Orchid. Linden.* 2: 1846. *Acronia semiscabra* (Lindl.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 190. 2005. *Humboldtia semiscabra* (Lindl.) Kuntze, *Revis. Gen. Pl.* 2: 668. 1891. *Zosterophyllanthos semiscabra* (Lindl.) Szlach. & Kulak, *Richardiana* 6: 193. 2006.

ILLUSTRATION: Luer 2005, f. 183 (p. 259).

DISTRIBUTION: COL VEN.

TYPE: Venezuela, *Linden 669* (holotype, K-L; isotypes, G, W).

VOUCHER: Colombia, *Ortiz-Valdivieso 131* (HPUJ).

Pleurothallis serpens Luer & R.Escobar, *Orquideología* 16(1): 31. 1983.

ILLUSTRATION: Luer & Escobar 1983, p. 33; Luer 1999a, f. 79.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 7625* (holotype, SEL; isotypes, COL, JAUM).

Pleurothallis serricardia Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 55. 1924. *Acronia serricardia* (Schltr.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 191. 2005. *Zosterophyllanthos serricardia* (Schltr.) Szlach. & Kulak, *Richardiana* 6: 193. 2006. ILLUSTRATION: Luer 2005, f. 185 (p. 260).

DISTRIBUTION: *COL.

TYPE: Colombia, *Hopp 172* (holotype, B, destroyed).

Pleurothallis sextonii Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 88: 108–109. 2002. *Acronia sextonii* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 58. 2005.

ILLUSTRATION: Luer 2002a, f. 20 (p. 119).

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 20050* (holotype, MO).

Pleurothallis sigynnes Luer, *Selbyana* 3(1,2): 186. 1976. *Acronia sigynnes* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 191. 2005. *Zosterophyllanthos sigynnes* (Luer) Szlach. & Kulak, *Richardiana* 6: 193. 2006.

ILLUSTRATION: Luer 2005, f. 186 (p. 260).

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer & Kent 295* (holotype, SEL).

VOUCHER: Colombia, *Escobar 8303* (MO).

Pleurothallis silverstonei Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 44: 122. 1992. *Colombiana silverstonei* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 249. 2006.

ILLUSTRATION: Luer 1992, pl. 8 (p. 123).

DISTRIBUTION: *COL.

TYPE: Colombia, *Silverstone-Sopkin et al. 2667* (holotype, CUVC; isotype, MO).

Pleurothallis siphoglossa Luer & R.Escobar, *Orquideología* 20: 82. 1996. *Acronia siphoglossa* (Luer &

- R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 192. 2005.
 ILLUSTRATION: Luer & Escobar 1996, p. 83, p. 89; Luer 2005, f. 187 (p. 260).
 DISTRIBUTION: COL ECU VEN.
 TYPE: Colombia, *Luer et al. 10104* (holotype, MO).
- Pleurothallis sirene*** Rchb.f., *Bonplandia* (Hannover) 3: 71. 1855. *Humboldtia sirene* (Rchb.f.) Kuntze, *Revis. Gen. Pl.* 2: 668. 1891.
Lindleyalis sirene (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 258. 2004.
 ILLUSTRATION: Luer 2000a, f. 6 (p. 114).
 DISTRIBUTION: COL VEN.
 TYPE: Colombia, *Wagener 558* (holotype, W; isotype, K-L).
- Pleurothallis solaris*** K.W.Holcomb, *Pleurothallidinae* 1(6): [1]. 2022.
 ILLUSTRATION: Holcomb 2022a, p. [2]. p. [3]
 DISTRIBUTION: *COL.
 TYPE: Colombia? [uncertain origin], *Holcomb s.n.* (holotype, GEO-18283)
 Note: Described from a cultivated specimen from uncertain origin, but an in situ photograph is presented.
- Pleurothallis somnolenta*** Luer, *Orquideología* 20: 225. 1996. *Acronia somnolenta* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 58. 2005.
 ILLUSTRATION: Luer 1996f, 226; Luer 1998b, f. 46.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Silverstone-Sopkin et al. 4334* (holotype, CUCV; isotype, MO).
- Pleurothallis sotarae*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 7: 115. 1920. *Acronia sotarae* (Schltr.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 193. 2005. *Zosterophyllanthos sotarae* (Schltr.) Szlach. & Kulak, *Richardiana* 6: 193. 2006.
 ILLUSTRATION: Luer 2005, f. 189 (p. 261).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Lehmann 6219* [holotype, B, destroyed; lectotype, K; isolectotype, AMES (Luer 2005)].
- Pleurothallis spathulipetala*** Luer, *Orquideología* 20(2): 227. 1996. *Ancipitia spathulipetala* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 255. 2004.
 ILLUSTRATION: Luer 1996f, 228.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Lehmann s.n.* (holotype, K).
- Pleurothallis stricta*** Luer, *Selbyana* 5(2): 181. 1979. *Acronia stricta* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 58. 2005.
 ILLUSTRATION: Luer 1998b, f.20.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer 4113* (holotype, SEL).
 VOUCHER: Colombia, *Luer 2937 (SEL)*.
- Pleurothallis strobilifera*** F.Lehm. & Kraenzl., *Bot. Jahrb. Syst.* 26: 440. 1898.
 ILLUSTRATION: Luer 1999a, f. 81.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Lehmann 8199* [(holotype, B, destroyed; lectotype, K; isolectotypes, AMES, K (Luer 1999a)].
- Pleurothallis subtilis*** C.Schweinf., *Fieldiana, Bot.* 28(1): 188. 1951. *Acronia subtilis* (C.Schweinf.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 196. 2005. *Zosterophyllanthos subtilis* (C.Schweinf.) Szlach. & Marg., *Polish Bot. J.* 46: 121. 2001.
 ILLUSTRATION: Luer 2005, f. 194 (p. 262).
 DISTRIBUTION: COL VEN.
 TYPE: Venezuela, *Steyermark 56030* (holotype, F; isotypes, AMES, NY, VEN).
 VOUCHER: Colombia, *Escobar 821* (AMES).
- Pleurothallis supervacanea*** Rchb.f., *Hamburger Garten-Blumenzeitung* 16: 180. 1860. *Acronia supervacanea* (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 58. 2005.
 ILLUSTRATION: Luer & Escobar 1981a, p. 133; Luer 1998b, f. 21.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Patin? sub Schiller s.n.* (holotype, W-R-0045922?; tracing of type, W-R-0053809!).
 Note: Luer (1998b) cites the type collection as being made by Patin near Medellín. It is unclear to us how this association was made, the sheets we inspected have no annotation and the protologue cites the material as being cultivated by Stange in the collection of Schiller.
- Pleurothallis talpinaria*** Rchb.f., *Flora* 69: 554. 1886. *Talpinaria bivalvis* H.Karst., *Fl. Columb.* 1: 153, t. 76. 1859.
 ILLUSTRATION: Luer 1998a, f. 4 (p. 100); Wilson *et al.* 2017b, f. 1–4, 9, 10, 12.
 DISTRIBUTION: COL VEN.
 TYPE: Colombia, *Karsten 6* (holotype, W-0075627! isotype, W-R-0012220).

- Pleurothallis tanyrhina*** Luer & R.Escobar, Orquideología 14(2): 176. 1981.
ILLUSTRATION: Luer & Escobar 1981a, p. 177; Luer 1999a, f. 45.
DISTRIBUTION: *COL.
TYPE: Colombia, Luer 2082 (holotype, SEL; isotype, JAUM).
- Pleurothallis taurus*** Luer, Phytologia 47(2): 80. 1980.
ILLUSTRATION: Luer 1999a, f. 33.
DISTRIBUTION: COL ECU.
TYPE: Colombia, Luer *et al.* 3077 (holotype, SEL).
- Pleurothallis tenuispala*** Mark Wilson, Lankesteriana 19(2): 82–83. 2019.
ILLUSTRATION: Wilson *et al.* 2019, f. 2a, 3a, 4a, 5a, 6–9.
DISTRIBUTION: *COL.
TYPE: Colombia, Wilson & Niessen PL0963 (holotype, COCO-spirit).
Note: This species substitutes the concept of *P. luctuosa* in Colombia.
- Pleurothallis tetragona*** Luer & R.Escobar, Orquideología 14(2): 178. 1981. *Ancipitia tetragona* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 255. 2004.
ILLUSTRATION: Luer & Escobar 1981a, p. 179; Luer 1989, pl. 21; Wilson *et al.* 2017d, f. 7, f. 8b.
DISTRIBUTION: *COL.
TYPE: Colombia, Escobar 983 (holotype, JAUM).
- Pleurothallis tetroxys*** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 31: 66. 1989. *Colombiana tetroxys* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 256. 2004.
ILLUSTRATION: Luer 1989, pl. 6 (p. 67); Wilson *et al.* 2018a, f. 1f.
DISTRIBUTION: *COL.
TYPE: Colombia, Luer 12497 (holotype, MO).
- Pleurothallis thoeleae*** (Luer) J.M.H. Shaw, Orchid Review Suppl., 124(1314): 38. 2016. *Acronia thoeleae* Luer, Harvard Pap. Bot. 17(2): 337. 2012.
ILLUSTRATION: Luer & Thoele 2012b, f. 6.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, Thoele 181 (holotype, MO; isotype, AMES).
VOUCHER: Colombia, Vieira 389 (JAUM).
- Pleurothallis titan*** Luer, Selbyana 3(3–4): 400. 1977. *Acronia titan* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 198, f. 199. 2005.
ILLUSTRATION: Wilson *et al.* 2018b, f. 1n; Luer 2005, f. 199 (p. 263); Sierra-Ariza *et al.* 2022, f. 6.
DISTRIBUTION: COL PAN.
TYPE: Panama, Dressler *s.n.* (holotype, SEL).
VOUCHER: Colombia, Paz *et al.* 643 (COL, MO).
- Pleurothallis torrana*** Luer, Orquideología 20(2): 231–233. 1996.
ILLUSTRATION: Luer 1996f, 232; Luer 1999a, f. 83; Wilson *et al.* 2017e, f. 2.
DISTRIBUTION: *COL.
TYPE: Colombia, Silverstone-Sopkin *et al.* 4334 (holotype, CUVIC; isotype, MO).
- Pleurothallis tridentata*** Klotzsch, Allg. Gartenzeitung 8: 289. 1840. *Acronia tridentata* (Klotzsch) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 200. 2005. *Humboldtia tridentata* (Klotzsch) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Zosterophyllanthos tridentatus* (Klotzsch) Szlach. & Marg., Polish Bot. J. 46: 121. 2001.
ILLUSTRATION: Wilson *et al.* 2018b, f. 1o; Luer 2005, f. 203a (p. 264), f. 203b, f. 203c (p. 265).
DISTRIBUTION: COL ECU VEN.
TYPE: Venezuela, Otto *s.n.* (holotype, K).
VOUCHER: Forero *et al.* 6820 (COL, MO).
- Pleurothallis trifurcata*** Luer & Hirtz, Lindleyana 11(3): 190. 1996.
ILLUSTRATION: Luer 1999a, f. 36; Luer 1996c, f. 62.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, Luer *et al.* 11140 (holotype, MO).
VOUCHER: Colombia, Mora 3091 (AMES, PSO).
- Pleurothallis troglodytes*** Luer, Selbyana 7: 125–126. 1982. *Acronia troglodytes* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 201. 2005. *Zosterophyllanthos troglodytes* (Luer) Szlach. & Kulak, Richardiana 6: 194. 2006.
ILLUSTRATION: Luer 2005, f. 204 (p. 265).
DISTRIBUTION: COL ECU.
TYPE: Ecuador, Luer *et al.* 7396 (holotype, SEL).
VOUCHER: Colombia, Dodson 18055 (MO).
- Pleurothallis truncata*** Lindl., Companion Bot. Mag. 2: 355. 1836. *Acronia truncata* (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 115: 257. 2009. *Humboldtia truncata* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Orbis truncata* (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 308. 2005.
ILLUSTRATION: Luer 1975a, f. 21 (p. 99); Luer 1998b, f.2.

- DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Jameson s.n.* (holotype, K).
 VOUCHER: Colombia, *Barbosa CB8634* (COL).
- Pleurothallis tryssa*** Luer, Selbyana 1(3): 303. 1975.
Acronia tryssa Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 58. 2005.
 ILLUSTRATION: Luer 1975a, f. 11 (p. 79), Luer 1998b, f.22.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 223* (holotype, SEL).
 VOUCHER: Colombia, *Luer 12500* (SEL).
- Pleurothallis tuzae*** Luer, Orquideología 21(2): 132–134. 1999.
 ILLUSTRATION: Luer 1999b, p. 133; Luer 1999a, f. 37.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Lehmann s.n. H.K.60* (holotype, K).
- Pleurothallis undulata*** Poepp. & Endl., Nov. Gen. Sp. Pl. 1: 48. 1836. *Acronia undulata* (Poepp. & Endl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 203. 2005. *Humboldtia undulata* (Poepp. & Endl.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Zosterophyllanthos undulatus* (Poepp. & Endl.) Szlach. & Marg., Polish Bot. J. 46: 121. 2001.
 ILLUSTRATION: Luer 2005, f. 207 (p. 266).
 DISTRIBUTION: COL PER.
 TYPE: Peru, *Poeppig 1431* (holotype, W).
 VOUCHER: Colombia, *Díaz-Piedrahita 1016* (COL).
- Pleurothallis urceolata*** Luer, Phytologia 46(6): 373. 1980.
 ILLUSTRATION: Luer 1999a, f. 38.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 3228* (holotype, SEL).
 VOUCHER: Colombia, *Betancur 14856* (COL).
- Pleurothallis uvifera*** Luer & R.Escobar, Orquideología 16(1): 36. 1983.
 ILLUSTRATION: Luer & Escobar 1983, p. 37; Luer 1999a, f. 84.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 6634* (holotype, SEL).
- Pleurothallis variabilis*** Luer, Selbyana 5(2): 187. 1979. *Acronia variabilis* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 204. 2005.
 ILLUSTRATION: Luer 2005, f. 210 (p. 267).
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 3909* (holotype, SEL).
 VOUCHER: Colombia, *Dodson & Escobar 18108* (MO).
- Pleurothallis vieirae*** Luer & R.Escobar, Orquideología 14(2): 182. 1981. *Acronia vieirae* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 58. 2005.
 ILLUSTRATION: Luer & Escobar 1981a, p. 183; Luer 1998b, f. 23; Misa Urreta 2005, p. 582, p. 583.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 2037* (holotype, SEL; isotype, JAUM).
- Pleurothallis villahermosae*** Sierra-Ariza, Rincón-González & Villanueva, Lankesteriana 22(1): 28. 2022.
 ILLUSTRATION: Sierra-Ariza *et al.* 2022, f. 1c, f. 2, f. 3.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Sierra-Ariza 54* (holotype, TOLI; isotype, JBB).
- Pleurothallis vinealis*** Luer & R.Escobar, Orquideología 16(3): 30. 1986. *Acronia vinealis* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 205. 2005. *Zosterophyllanthos vinealis* (Luer & R.Escobar) Szlach. & Marg., Polish Bot. J. 46: 121. 2001.
 ILLUSTRATION: Luer & Escobar 1986, p. 31; Luer 2005, f. 211 (p. 267).
 DISTRIBUTION: COL ECU.
 TYPE: Colombia, *Luer & Escobar 10364* (holotype, MO).
- Pleurothallis volcanica*** Luer, Selbyana 3(3–4): 406–407. 1977. *Acronia volcanica* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 103: 58. 2005.
 ILLUSTRATION: Luer 1998b, f.24.
 DISTRIBUTION: COL COS PAN.
 TYPE: Panama, *Luer & Butcher 1260* (holotype, SEL).
 VOUCHER: Colombia, *Hammel et al. 16562* (MO).
 Note: A specimen collected exactly on the Panama/Colombia border was cited in Kolanowska (2014).
- Pleurothallis xanthochlora*** Rchb.f., Linnaea 22: 823. 1849. *Humboldtia xanthochlora* (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 668. 1891.
 ILLUSTRATION: Luer 1999a, f. 47; Kolanowska & Szlachetko 2020b, f. 4; Karremans *et al.* 2021, f. 3.
 DISTRIBUTION: BOL COL ECU PER VEN.
 TYPE: Venezuela, *Moritz 1054* (holotype, W; isotypes, AMES, BM-000082375, K-L-000584197).
 VOUCHER: Colombia, *Schneider 44* (AMES, S).

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- Pleurothallopsis clausa*** (Luer & R.Escobar) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 255. 2001. *Restrepiella clausa* (Luer & R.Escobar) Braas & H.Mohr, *Orchideen* 33: 154. 1982. *Restrepiopsis clausa* Luer & R.Escobar, *Selbyana* 2: 202. 1978. ILLUSTRATION: Luer 1991a, pl.2 (p.93). DISTRIBUTION: COL ECU. TYPE: Colombia, *Luer 2330* (holotype, JAUM; isotype, SEL).
- Pleurothallopsis inaequalis*** (Luer & R.Escobar) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 255. 2001. *Restrepiopsis inaequalis* Luer & R.Escobar, *Monogr. Syst. Bot. Missouri Bot. Gard.* 39: 94. 1991. ILLUSTRATION: Luer 1991a, pl.3 (p.95). DISTRIBUTION: COL ECU. TYPE: Ecuador, *Luer 13211* (holotype, MO). VOUCHER: Colombia, *Luer 2042* (SEL).
- Pleurothallopsis insons*** (Luer & R.Escobar) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 255. 2001. *Restrepiopsis insons* Luer & R.Escobar, *Selbyana* 7: 77. 1982. ILLUSTRATION: Luer 1991a, pl.4 (p.97). DISTRIBUTION: *COL. TYPE: Colombia, *Luer 7437* (holotype, SEL).
- Pleurothallopsis lehmannii*** (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 255. 2001. *Restrepiopsis lehmannii* Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 39: 98. 1991. ILLUSTRATION: Luer 1991a, pl.5 (p.99). DISTRIBUTION: *COL. TYPE: Colombia, *Lehmann s.n.* (holotype, K; H.K. 377).
- Pleurothallopsis microptera*** (Schltr.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 255. 2001. *Pleurothallis microptera* Schltr., *Repert. Spec. Nov. Regni Veg.* 7: 108. 1920. *Restrepiella microptera* (Schltr.) Garay & Dunst., *Venez. Orchid. Ill. Vol. 1. 4:* 266, t.. 1966. *Restrepiopsis microptera* (Schltr.) Luer, *Selbyana* 2: 200. 1978. ILLUSTRATION: Luer 1991a, pl.6 (p.101); Mansfeld 1929, pl. 37 (n. 142). DISTRIBUTION: COL ECU. TYPE: Colombia, *Lehmann 6922* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 37, No. 142)].
- Pleurothallopsis niesseniae*** (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 120: 154. 2010. *Restrepiopsis niesseniae* Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 79: 130, f. 1. 2000. ILLUSTRATION: Luer 2000a, f. 1 (p. 139L). DISTRIBUTION: *COL. TYPE: Colombia, *Niessen & Uribe 114* (holotype, MO).
- Pleurothallopsis norae*** (Garay & Dunst.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 255. 2001. *Restrepiella norae* Garay & Dunst., *Venez. Orchid. Ill. Vol. 1. 6:* 388. 1976. *Restrepiopsis norae* (Garay & Dunst.) Luer, *Selbyana* 2: 200. 1978. ILLUSTRATION: Luer 1991a, pl. 9 (p. 107). DISTRIBUTION: COL VEN. TYPE: Venezuela, *Dunsterville 1232* (holotype, AMES). VOUCHER: Colombia, *Luer 2332* (SEL, JAUM).
- Pleurothallopsis powersii*** (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 255. 2001. *Restrepiella powersii* (Luer) Braas & H.Mohr, *Orchideen* 33: 154. 1982. *Restrepiopsis powersii* Luer, *Selbyana* 2: 204. 1978. ILLUSTRATION: Luer 1991a, pl. 11 (p.111). DISTRIBUTION: *COL. TYPE: Colombia, *Powers s.n.* (holotype, SEL).
- Pleurothallopsis rinkei*** Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 120: 146, f. 18. 2010. ILLUSTRATION: Luer 2010, f. 18 (p. 153). DISTRIBUTION: *COL. TYPE: Colombia, *Rinke s.n.* (holotype, MO).
- Pleurothallopsis striata*** (Luer & R.Escobar) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 255. 2001. *Restrepiopsis striata* Luer & R.Escobar, *Orquideología* 16: 43. 1983. ILLUSTRATION: Luer & Escobar 1983, p. 44; Luer 1991a, pl. 13 (p.115). DISTRIBUTION: COL VEN. TYPE: Colombia, *Luer et al. 7734* (holotype, SEL).
- Pleurothallopsis tubulosa*** (Lindl.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 255. 2001. *Pleurothallis tubulosa* Lindl., *Fol. Orchid. ~Pleurothallis~* 19. 1859. *Humboldtia tubulosa* (Lindl.) Kuntze, *Revis. Gen. Pl.* 2: 668. 1891. *Restrepiella tubulosa* (Lindl.) Garay & Dunst., *Venez. Orchid. Ill. Vol. 1. 4:* 266–267. 1966. *Restrepiopsis tubulosa* (Lindl.) Luer, *Selbyana* 2(2–3): 200. 1978.

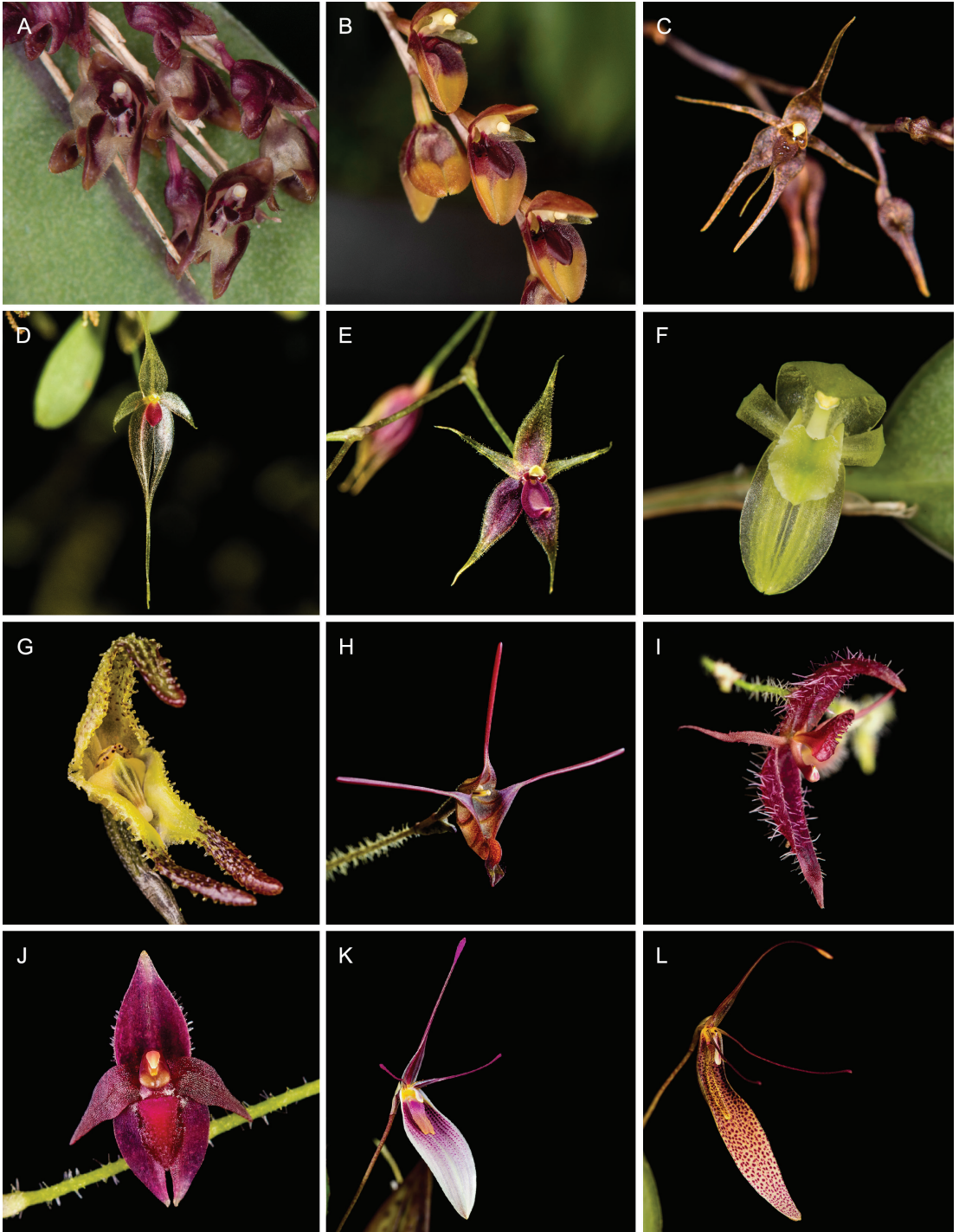


FIGURE 13. **A.** *Pendusalpinx dependens*. **B.** *P. patula*. **C.** *Platystele examen-culicum*. **D.** *P. baqueroi*. **E.** *P. jesupiorum*. **F.** *Pleurothallopsis tubulosa*. **G.** *Porroglossum mordax*. **H.** *P. parsonsii*. **I.** *Pseudolepanthes bihuae*. **J.** *P. bricenoensis*. **K.** *Restrepia chameleon*. **L.** *R. tsubotae*. Photographs by S. Moreno (A, C, F–H, K, L), S. Mesa (B), Robinson Galindo (D), N. Gutiérrez (E), and S. Vieira-Uribe (I, J).

ILLUSTRATION: Luer 1991a, pl. 14 (p.117). Fig. 13F.

DISTRIBUTION: COL COS ECU PAN VEN.

TYPE: Ecuador, *Jameson s.n.* [lectotype, K-000079816 (selected here). Ecuador, Jameson s.n. (syntype, K-000079818)].).

VOUCHER: Colombia, *Lehmann 8226* (K).

Note: Although not immediately apparent, Lindley cites two materials by Jameson “Valley of Lloa, on trees” and “forests at 12,000” and both specimens are indeed present in his herbarium. The first is selected as lectotype.

Pleurothallopsis ujarrensis (Rchb.f.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 255. 2001. *Humboldtia ujarrensis* (Rchb.f.) Kuntze, *Revis. Gen. Pl.* 2: 668. 1859. *Pleurothallis ujarrensis* (Rchb.f.) Lindl., *Fol. Orchid. ~Pleurothallis~* 19. 1859. *Restrepia ujarrensis* Rchb.f., *Bonplandia* (Hannover): 225. 1855. *Restrepiella ujarrensis* (Rchb.f.) Garay & Dunst., *Venez. Orchid. Ill. Vol. 1.* 4: 266. 1966. *Restrepiopsis ujarrensis* (Rchb.f.) Luer, *Selbyana* 2(2–3): 200. 1978.

ILLUSTRATION: Luer 1991a, pl. 15 (p.120).

DISTRIBUTION: COL COS GUA NIC PAN.

TYPE: Costa Rica, *Oersted s.n.* [607] (holotype, W-R-0029376; isotype, K-L-000079867).

VOUCHER: Colombia, *Escobar 2579* (COL).

PORROGLOSSUM Schltr.

Porroglossum actrix Luer & R.Escobar, *Monogr. Syst. Bot. Missouri Bot. Gard.* 39: 152. 1991.

ILLUSTRATION: Karremans & Vieira-Uribe 2020, p. 245.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 4050* (holotype, MO; isotype, JAUM).

Porroglossum agile Luer, *Phytologia* 46(6): 374.

ILLUSTRATION: Luer 1987, pl. 1 (35); Kolanowska *et al.* 2013, p. 79; Karremans & Vieira-Uribe 2020, p. 235.

DISTRIBUTION: COL PER.

TYPE: Peru, *Luer 5254* (holotype, SEL).

VOUCHER: Colombia, *Medina 150* (MEDEL).

Porroglossum echidna (Rchb.f.) Garay, *Svensk Bot. Tidskr.* 47: 201. 1953. *Masdevallia echidna* Rchb.f., *Bonplandia* (Hannover) 3: 69. 1855. *Scaphosepalum echidna* (Rchb.f.) Schltr., *Repert.*

Spec. Nov. Regni Veg. Beih. 7: 219. 1920.

ILLUSTRATION: Luer 1987, pl. 7 (47); Karremans & Vieira-Uribe 2020, p. 239.

DISTRIBUTION: *COL.

TYPE: Colombia, *Wagener s.n.* (holotype, W-R-0050793).

Porroglossum eduardii (Rchb.f.) Sweet, *Amer. Orchid Soc. Bull.* 41: 519. 1972. *Masdevallia eduardii* Rchb.f., *Gard. Chron. n.s.*, 14: 778. 1880.

ILLUSTRATION: Luer 1987, pl. 8; Karremans & Vieira-Uribe 2020, p. 226.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Klaboch s.n.* (holotype, W-R-0047205).

Porroglossum medinae Kolan. & Szlach., *Polish Bot. J.* 58(2): 629. 2013.

ILLUSTRATION: Karremans & Vieira-Uribe 2020, p. 235.

DISTRIBUTION: *COL.

TYPE: Colombia, *Medina 577* (holotype, MEDEL).

Porroglossum mordax (Rchb.f.) H.R.Sweet, *Orquideología* 5: 166. 1970. *Masdevallia mordax* Rchb.f., *Flora* 69: 559. 1886. *Lothiania mordax* (Rchb.f.) Kraenzl., *Gard. Chron.*, ser. 3 75: 173. 1924.

ILLUSTRATION: Luer 1987, pl. 13; Karremans & Vieira-Uribe 2020, p. 228. Fig. 13G.

DISTRIBUTION: *COL.

TYPE: Colombia, *Lehmann 3620* (holotype, W-R-0047205).

Porroglossum muscosum (Rchb.f.) Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 7: 83. 1920. *Masdevallia muscosa* Rchb.f., *Gard. Chron. n.s.*, 3: 460. 1875.

ILLUSTRATION: Luer 1987, pl. 14, pl. 15, pl. 17; Karremans & Vieira-Uribe 2020, p. 242.

DISTRIBUTION: COL ECU VEN.

TYPE: Colombia, *Shuttleworth s.n.* (holotype, W-R-0050782; isotype, K).

Porroglossum nutibara Luer & R.Escobar, *Monogr. Syst. Bot. Missouri Bot. Gard.* 24: 66, pl. 18. 1987.

ILLUSTRATION: Luer 1987, pl. 18; Karremans & Vieira-Uribe 2020, p. 243.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar s.n.* (holotype, JAUM; isotype, MO).

Porroglossum olivaceum Sweet, *Orquideología* 5: 167. 1970.

ILLUSTRATION: Luer 1987, pl. 19–21; Karremans & Vieira-Uribe 2020, p. 245.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Drew E-536* (holotype, AMES).

VOUCHER: Colombia, *Luer 4616* (SEL).

Porroglossum parsonsii Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 253–254. 2006.

ILLUSTRATION: Luer 2006, f. 12. Fig. 13H; Karremans & Vieira-Uribe 2020, p. 240.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 20985* (holotype, MO).

Porroglossum rodrigoii H.R.Sweet, *Orquideología* 9: 129. 1974.

ILLUSTRATION: Luer 1987, pl. 25; Karremans & Vieira-Uribe 2020, p. 244.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 1055* (holotype, AMES).

Porroglossum sergioi P.Ortiz, *Orquideología* 10: 215. 1975.

ILLUSTRATION: Luer 1987, pl. 27; Karremans & Vieira-Uribe 2020, p. 243.

DISTRIBUTION: *COL.

TYPE: Colombia, *Ortiz 689* (holotype, COL).

Note: Originally described as *P. sergii*.

Porroglossum tripollex Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 72: 114–115. 1998.

ILLUSTRATION: Luer 1998, f. 8 (p. 119); Karremans & Vieira-Uribe 2020, p. 230.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Teague 271* (holotype, MO).

VOUCHER: Colombia, *Ortiz 1390* (HPUJ).

PSEUDOLEPANTHES (Luer) Archila

Pseudolepanthes bihuae M.F.Monteros & Baquero, *Lankesteriana* 21(1): 5–6. 2021.

ILLUSTRATION: Karremans & Vieira-Uribe 2020, p. 254 (top right); Monteros *et al.* 2021, f. 1, f. 2. Fig. 13I.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Monteros 203* (holotype, QCNE).

VOUCHER: Colombia, *Vieira 253* (JAUM).

Pseudolepanthes bricenoensis (Luer & R.Escobar) Archila, *Revista Guatemal.* 3(1): 78. 2000 [2009]. *Pseudolepanthes bricenoensis* (Luer & R.Escobar) Archila, *Revista Guatemal.* 17(1): 65. 2014 [2015], *nom. superfl.* *Trichosalpinx bricenoensis* Luer &

R.Escobar, *Monogr. Syst. Bot. Missouri Bot. Gard.* 64: 105. 1997.

ILLUSTRATION: Luer 1997, f. 93; Karremans & Vieira-Uribe 2020, p. 253. Fig. 13J.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 14196* (holotype, MO; isotype, JAUM).

Pseudolepanthes calceolaris (Luer & R.Escobar) Archila, *Revista Guatemal.* 3(1): 78. 2000 [2009].

Pseudolepanthes calceolaris (Luer & R.Escobar) Archila, *Revista Guatemal.* 17(1): 65. 2014 [2015], *nom. superfl.* *Trichosalpinx calceolaris* Luer & R.Escobar, *Monogr. Syst. Bot. Missouri Bot. Gard.* 64: 105–106. 1997.

ILLUSTRATION: Luer 1997, f. 94; Karremans & Vieira-Uribe 2020, p. 255, p. 256.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 16723* (holotype, MO).

Pseudolepanthes colombiae Archila, *Revista Guatemal.* 3(1): 79. 2000 [2009].

Pseudolepanthes colombiae Archila, *Revista Guatemal.* 17(1): 66. 2014 [2015], *nom. superfl.* *Trichosalpinx pseudolepanthes* Luer & R.Escobar, *Orquideología* 16(2): 183. 1984.

ILLUSTRATION: Luer & Escobar 1984b, p. 184, p. 185; Luer 1997, f. 97; Karremans & Vieira-Uribe 2020, p. 252.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar & Valencia 2623* (holotype, SEL).

Pseudolepanthes decorata (Luer & R.Escobar) Archila, *Revista Guatemal.* 3(1): 78. 2000 [2009].

Pseudolepanthes decorata (Luer & R.Escobar) Archila, *Revista Guatemal.* 17(1): 65. 2014 [2015], *nom. superfl.* *Trichosalpinx decorata* Luer & R.Escobar, *Monogr. Syst. Bot. Missouri Bot. Gard.* 64: 106. 1997.

ILLUSTRATION: Luer 1997, f. 95.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 16738* (holotype, MO).

Pseudolepanthes ectopa (Luer & R.Escobar) Archila, *Revista Guatemal.* 3(1): 79. 2000 [2009].

Pseudolepanthes ectopa (Luer & R.Escobar) Archila, *Revista Guatemal.* 17(1): 65. 2014 [2015], *nom. superfl.* *Trichosalpinx ectopa* Luer, *Orquideología* 18(2): 166–168. 1991. *Trichosalpinx ectopa* Luer & R.Escobar, *Monogr. Syst. Bot. Missouri Bot. Gard.* 64: 106. 1997. *nom. superfl.*

ILLUSTRATION: Luer 1991f, p. 167; Luer 1997, f. 96; Karremans & Vieira-Uribe 2020, p. 257.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 14202* (holotype, MO).

Pseudolepanthes ramosii (Luer) Archila, *Revista Guatemal.* 3(1): 79. 2000 [2009].

Pseudolepanthes ramosii (Luer) Archila, *Revista Guatemal.* 17(1): 66. 2014 [2015], *nom. superfl.* *Trichosalpinx ramosii* Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 64: 108. 1997.

ILLUSTRATION: Luer 1997, f. 98.

DISTRIBUTION: *COL.

TYPE: Colombia, *Ramos et al. 1306* (holotype, CUVC; isotype, MO).

Pseudolepanthes silverstonei (Luer) Archila, *Revista Guatemal.* 3(1): 79. 2000 [2009]. *Pseudolepanthes silverstonei* (Luer) Archila, *Revista Guatemal.* 17(1): 66. 2014 [2015], *nom. superfl.* *Trichosalpinx silverstonei* Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 64: 108–109. 1997.

ILLUSTRATION: Luer 1997, f. 99; Karremans & Vieira-Uribe 2020, p. 254.

DISTRIBUTION: *COL.

TYPE: Colombia, *Silverstone-Sopkin et al. 4324* (holotype, CUVC; isotype, MO).

Pseudolepanthes spathulata (Luer) Archila, *Revista Guatemal.* 3(1): 79. 2000 [2009]. *Pseudolepanthes spathulata* (Luer) Archila, *Revista Guatemal.* 17(1): 67. 2014 [2015], *nom. superfl.* *Trichosalpinx spathulata* Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 64: 109. 1997.

ILLUSTRATION: Luer 1997, f. 100; Karremans & Vieira-Uribe 2020, p. 258.

DISTRIBUTION: *COL.

TYPE: Colombia, *Silverstone-Sopkin et al. 4323* (holotype, CUVC; isotype, MO).

Pseudolepanthes uvaria (Luer) Archila, *Revista Guatemal.* 3(1): 80. 2000 [2009]. *Pseudolepanthes uvaria* (Luer) Archila, *Revista Guatemal.* 17(1): 67. 2014 [2015], *nom. superfl.* *Trichosalpinx uvaria* Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 64: 109–110. 1997.

ILLUSTRATION: Luer 1997, f. 101; Karremans & Vieira-Uribe 2020, p. 251.

DISTRIBUTION: *COL.

TYPE: Colombia, *Silverstone-Sopkin et al. 4322* (holotype, CUVC; isotype, MO).

RESTREPIA Kunth

Restrepia antennifera Kunth, *Nov. Gen. Sp.* (quarto ed.) 1: 367, pl. 94. 1816.

ILLUSTRATION: Luer 1996a, pl. 2, pl. 3.

DISTRIBUTION: COL ECU VEN.

TYPE: Colombia, *Humboldt & Bonpland s.n.* (holotype, P).

Restrepia aristulifera Garay & Dunst., *Venez. Orchid. Ill. Vol. 1.* 5: 258. 1972.

ILLUSTRATION: Luer 1996a, pl. 4; Ortiz & Uribe 2007 (CD Edition).

DISTRIBUTION: COL VEN.

TYPE: Venezuela, *Dunsterville 1090* (holotype, AMES).

VOUCHER: Colombia, *Killip & Smith 20313, 20318* (AMES, NY).

Restrepia aspasicensis Rchb.f., *Bonplandia* (Hannover) 3: 70. 1855.

ILLUSTRATION: Luer 1996a, pl. 5; Ortiz & Uribe 2007 (CD Edition).

DISTRIBUTION: COL VEN.

TYPE: Colombia, *Wagener s.n.* (holotype, W; isotype, K).

Restrepia brachypus Rchb.f., *Flora* 69: 554. 1886.

ILLUSTRATION: Luer 1996a, pl. 6, pl. 7; Luer 1996e, p. 150 (top, bottom left); Ortiz & Uribe 2007 (CD Edition).

DISTRIBUTION: BOL COL ECU PER VEN.

TYPE: Colombia, *Lehmann 3215* (holotype, W).

Restrepia chameleon Luer & R.Escobar, *Orquideología* 20: 120. 1996.

ILLUSTRATION: Luer 1996a, pl. 8; Luer 1996e, p. 122, p. 153; Ortiz & Uribe 2007 (CD Edition). Fig. 13K.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 13130* (holotype, JAUM; isotype, MO).

Restrepia chocoënsis Garay, *Orquideología* 8(3): 181. 1973.

ILLUSTRATION: Luer 1996a, pl. 9; Ortiz & Uribe 2007 (CD Edition).

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 1054* (holotype, AMES).

Restrepia chrysoglossa Luer & R.Escobar, *Orquideología* 20: 123. 1996.

ILLUSTRATION: Luer 1996a, pl. 10; Luer 1996e, p.

- 124, p. 154 (bottom left).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 17874* (holotype, JAUM; isotype, MO).
- Restrepia citrina*** Luer & R.Escobar, *Orquideología* 16(1): 40. 1983.
 ILLUSTRATION: Luer & Escobar 1983, p. 41; Luer 1996a, pl. 11; Ortiz & Uribe 2007 (CD Edition).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 6624* (holotype, SEL; isotype, JAUM).
- Restrepia contorta*** (Ruiz & Pav.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 59: 50. 1996.
Humboldtia contorta Ruiz & Pav., *Syst. Veg. Fl. Peruv. Chil.* 235. 1798. *Stelis contorta* (Ruiz & Pav.) Pers., *Syn. Pl.* 2: 524. 1807.
 ILLUSTRATION: Luer 1996a, pl. 14, pl. 15, pl. 16, pl. 17, pl. 18; ; Pupulin 2013, f. 38A.
 DISTRIBUTION: COL ECU PER VEN.
 TYPE: Peru, *Ruiz & Pavón s.n.* (holotype, MA; isotype, W).
 VOUCHER: Colombia, *Linden 1270* (K, BR, W).
- Restrepia cuprea*** Luer & R.Escobar, *Orquideología* 20: 130. 1996.
 ILLUSTRATION: Luer 1996a, pl. 19; Luer 1996e, p. 131, p. 151 (bottom left); Ortiz & Uribe 2007 (CD Edition).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 16677* (holotype, JAUM; isotype, MO).
- Restrepia echinata*** Luer & R.Escobar, *Orquideología* 20: 135. 1996.
 ILLUSTRATION: Luer 1996a, pl. 22; Luer 1996e, p. 137, p. 154 (top left); Ortiz & Uribe 2007 (CD Edition).
 DISTRIBUTION: COL PER.
 TYPE: Colombia, *Luer 16660* (holotype, JAUM; isotype, MO).
- Restrepia echo*** Luer & R.Escobar, *Orquideología* 20: 138. 1996.
 ILLUSTRATION: Luer 1996a, pl. 23; Luer 1996e, p. 140, p. 155 (bottom left); Ortiz & Uribe 2007 (CD Edition).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 6001* (holotype, JAUM; isotype, MO).
 Note: According to Luer (1996a) the type is *Luer 16702*, but the protologue indicates *Escobar 6001* (Luer 1996e).
- Restrepia elegans*** H.Karst., *Allg. Gartenzeitung* 15: 202. 1847.
 ILLUSTRATION: Luer 1996a, pl. 24, pl. 25; Luer 1996e, p. 154 (top right); Ortiz & Uribe 2007 (CD Edition).
 DISTRIBUTION: COL VEN.
 TYPE: Venezuela, *Karsten s.n.* (lectotype, W; isolectotype, K).
 VOUCHER: Colombia, *Luer 14445* (MO).
- Restrepia escobariana*** Luer, *Orquideología* 20: 144. 1996.
 ILLUSTRATION: Luer 1996a, pl. 27; Luer 1996e, p. 145, p. 149 (top left, bottom); Ortiz & Uribe 2007 (CD Edition).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 16656* (holotype, JAUM; isotype, MO).
- Restrepia falkenbergii*** Rchb.f., *Gard. Chron.*, n.s. 13: 232. 1880.
 ILLUSTRATION: Luer 1996a, pl. 28; Luer 1996e, p. 154 (bottom right); Ortiz & Uribe 2007 (CD Edition).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Falkenberg s.n.* (lectotype, W, illustration).
- Restrepia flosculata*** Luer, *Selbyana* 7(1): 127. 1982.
 ILLUSTRATION: Luer 1996a, pl. 29.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Dodson & Thien 1600* (holotype, SEL).
 VOUCHER: *Escobar s.n.* (JAUM).
- Restrepia fritillina*** Luer & V.N.M.Rao, *Monogr. Syst. Bot. Missouri Bot. Gard.* 112: 110. 2007.
 ILLUSTRATION: Luer 2007, f. 5 (p. 114).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Rao 299* (holotype, MO).
- Restrepia guttulata*** Lindl., *Companion Bot. Mag.* 2: 357. 1836.
 ILLUSTRATION: Luer 1996a, pl. 30, pl. 31, pl. 32, pl. 33.
 DISTRIBUTION: COL ECU PER VEN.
 TYPE: Ecuador, *Jameson s.n.* (holotype, K).
 VOUCHER: Colombia, *Luer 5213* (SEL).
- Restrepia limbata*** Luer & R.Escobar, *Selbyana* 7: 76. 1982.
 ILLUSTRATION: Luer 1996a, pl. 39.

- DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 1187* (holotype, SEL; isotype, JAUM).
- Restrepia metae*** Luer, *Orquideología* 20: 159. 1996.
 ILLUSTRATION: Luer 1996a, pl. 41; Luer 1996e, p. 161.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Renz 3610* (holotype, Herb. J. Renz).
- Restrepia muscifera*** (Lindl.) Rchb.f. ex Lindl., *Fol. Orchid. Restrepia* 2. 1859. *Pleurothallis muscifera* Lindl., *Edwards's Bot. Reg.* 28: Misc. 79. 1842.
 ILLUSTRATION: Luer 1996a, pl. 43, pl. 44, pl. 45; Luer 1996e, p. 155 (top left); Ortiz & Uribe 2007 (CD Edition).
 DISTRIBUTION: COL COS ECU ELS GUA HON MEX NIC PAN.
 TYPE: Guatemala, *Skinner s.n.* (holotype, K).
 VOUCHER: Colombia, *Escobar 3328* (JAUM).
- Restrepia nittiorhyncha*** (Lindl.) Garay, *Bot. Mus. Leafl.* 21: 253. 1967. *Humboldtia nittiorhyncha* (Lindl.) Kuntze, *Revis. Gen. Pl.* 2: 668. 1891. *Pleurothallis nittiorhyncha* Lindl., *Fol. Orchid. ~Pleurothallis~* 20. 1859.
 ILLUSTRATION: Luer 1996a, pl. 46; Luer 1996e, p. 151 (top left); Ortiz & Uribe 2007 (CD Edition).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Schlim s.n.* (holotype, K).
- Restrepia pandurata*** Rchb.f., *Gard. Chron.*, ser. 3 3: 244. 1888.
 ILLUSTRATION: Luer 1996a, pl. 47; Ortiz & Uribe 2007 (CD Edition).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Wendland s.n.* (holotype, W).
- Restrepia pelyx*** Luer & R.Escobar, *Selbyana* 7(1): 76. 1982.
 ILLUSTRATION: Luer 1996a, pl. 48; Ortiz & Uribe 2007 (CD Edition).
 DISTRIBUTION: COL VEN.
 TYPE: Colombia, *Escobar 241* (holotype, SEL; isotype, JAUM).
- Restrepia purpurea*** Luer & R.Escobar, *Orquideología* 20: 162. 1996.
 ILLUSTRATION: Luer 1996a, pl. 49; Luer 1996e, p. 150 (bottom right), p. 163.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 17545* (holotype, JAUM; isotype, MO).
- Restrepia sanguinea*** Rolfe, *Bull. Misc. Inform. Kew* 1896: 44. 1896.
 ILLUSTRATION: Luer 1996a, pl. 53; Ortiz & Uribe 2007 (CD Edition); Rincón-González & Vieira-Urbe 2019, f. 36.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Charlesworth & Co. s.n.* (holotype, K; isotype, AMES-00103796).
- Restrepia santanderensis*** N.Gut. & K.Gil-Amaya, *Phytotaxa* 598(4): 293–300. 2023.
 ILLUSTRATION: Gutiérrez Morales *et al.* 2023, f. 1, f. 2, f. 3c-d.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Calderón et al. 191* (holotype, JBB).
- Restrepia seketii*** Luer & R.Escobar, *Orquideología* 20: 175. 1996.
 ILLUSTRATION: Luer 1996a, pl. 55; Luer 1996e, p. 156 (top left, bottom), p. 177.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 3325* (holotype, JAUM).
 Note: According to Luer (1996a) the type is *Luer 16658A*, but the protologue indicates *Escobar 3325* (Luer 1996e).
- Restrepia tabeae*** H.Mohr, *Leafl. Schlechter Inst.* 2: 10, t. 1–2. 1996.
 ILLUSTRATION: Luer 1996a, pl. 56; Ortiz & Uribe 2007 (CD Edition).
 DISTRIBUTION: *COL.
 TYPE: Colombia, unknown collector (holotype, Herb. Schltr. Instit; isotype, W).
- Restrepia trichoglossa*** F.Lehm. ex Sander, *Sander's Orch. Guide* 215. 1901.
 ILLUSTRATION: Luer 1996a, pl. 58, pl. 59, pl. 60; Luer 1996e, p. 152 (bottom).
 DISTRIBUTION: COL COS ECU GUA MEX PAN PER.
 TYPE: Colombia, *Lehmann B.T. 1312* (lectotype, K; isolectotypes, AMES, W).
- Restrepia tsubotae*** Luer & R.Escobar, *Orquideología* 20: 178. 1996.
 ILLUSTRATION: Luer 1996a, pl. 61; Luer 1996e, p. 152 (top right), p. 179; Ortiz & Uribe 2007 (CD Edition). Fig. 13L.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 17976* (holotype, JAUM; isotype, MO).

RESTREPIELLA Garay & Dunst.

Restrepiella doucetteana Doucette ex L.Salm, *OrchideenJ.* 24(4): 172. 2017.

ILLUSTRATION: Salm 2017, p. 174–175.

DISTRIBUTION: COL.

TYPE: Colombia, *Doucette 343* (holotype, WIS).

SCAPHOSEPALUM Pfitzer

Scaphosepalum antenniferum Rolfe, *Gard. Chron.*, ser. 3 7: 709. 1890.

ILLUSTRATION: Luer 1988, pl. 5 (p. 37).

DISTRIBUTION: COL ECU PER.

TYPE: Colombia, *Charlesworth, Shuttleworth & Co. s.n.* (holotype, K; isotype, W).

Scaphosepalum bicolor Luer & R.Escobar, *Orquideología* 14: 186. 1981.

ILLUSTRATION: Luer & Escobar 1981a, p. 187; Luer 1988, pl. 7 (p. 41).

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 1650* (holotype, JAUM).

Scaphosepalum bicristatum Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 88: 110. 2002.

ILLUSTRATION: Luer 2002a, f. 23 (p. 120).

DISTRIBUTION: *COL.

TYPE: Colombia, *Hirtz 7629* (holotype, MO).

Scaphosepalum breve (Rchb.f.) Rolfe, *J. Bot.* 28: 136. 1890. *Masdevallia brevis* Rchb.f., *Gard. Chron.* 2: 588. 1883.

ILLUSTRATION: Luer 1988, pl. 8–10 (p. 43–45).

DISTRIBUTION: BOL COL ECU GUY VEN.

TYPE: Guyana, *Veitch & Sons 444* (holotype, K; isotype, W).

VOUCHER: Colombia, *Wallis 343* (W).

Scaphosepalum decorum Luer & R.Escobar, *Orquideología* 15: 149. 1982.

ILLUSTRATION: Luer & Escobar 1982, p. 150; Luer 1988, pl. 14–15 (p. 53–54).

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 3459* (holotype, SEL; isotype, JAUM).

Scaphosepalum gibberosum (Rchb.f.) Rolfe, *J. Bot.* 28: 136. 1890. *Masdevallia gibberosa* Rchb.f., *Gard. Chron.* 1: 8. 1876.

ILLUSTRATION: Luer 1988, pl. 18–19 (p. 60–61).

DISTRIBUTION: *COL.

TYPE: Colombia, *Wallis 387* (holotype, W; isotype, K).

Scaphosepalum grande Kraenzl., *Notizbl. Bot. Gart. Berlin-Dahlem* 8: 135. 1922.

ILLUSTRATION: Luer 1988, pl. 20 (p. 63). Fig. 16A.

DISTRIBUTION: *COL.

TYPE: Colombia, *Kalbreyer 1846* [holotype, B, destroyed; lectotype, W (Luer 1988)].

Scaphosepalum lima (F.Lehm. & Kraenzl.) Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 7: 220. 1920. *Masdevallia lima* F.Lehm. & Kraenzl., *Bot. Jahrb. Syst.* 26: 454. 1899.

ILLUSTRATION: Luer 1988, pl. 22 (p. 67).

DISTRIBUTION: *COL.

TYPE: Colombia, *Lehmann 8238* (holotype, K; isotype, G).

Scaphosepalum macrodactylum (Rchb.f.) Rolfe, *J. Bot.* 28: 136. 1890. *Masdevallia macrodactyla* Rchb.f., *Gard. Chron.* 571. 1872.

ILLUSTRATION: Luer 1988, pl. 23 (p. 69).

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Veitch & Sons 202* (holotype, W).

Scaphosepalum microdactylum Rolfe, *Bull. Misc. Inform. Kew* 1893(82–83): 335. 1893 [1894].

ILLUSTRATION: Luer 1988, pl. 24–28 (p. 69–76); Karremans *et al.* 2016, f. 4d. f. 6e, f. 8e.

DISTRIBUTION: COL COS ECU GUA HON MEX NIC PAN.

TYPE: Unknown (holotype, K).

VOUCHER: Colombia, *Luer 3461* (SEL).

Scaphosepalum odontochilum Kraenzl., *Bull. Misc. Inform. Kew* 113. 1925.

ILLUSTRATION: Luer 1988, pl. 29 (p. 78), pl. 30 (p. 79). Fig. 16B.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Lehmann 172* (holotype, K; isotype, AMES).

Scaphosepalum ophidion Luer, *Phytologia* 49(3): 222–223. 1981.

ILLUSTRATION: Luer 1988, pl. 31 (p. 81), Baquero 2017, fig. 2.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Hirtz et al. 4381* (holotype, SEL).

VOUCHER: Colombia, *Luer et al. 4607* (SEL).

Scaphosepalum panduratum Luer & R.Escobar, *Monogr. Syst. Bot. Missouri Bot. Gard.* 64: 134. 1997.

ILLUSTRATION: Luer 1997, f. 49 (p. 136).

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar 8226* (holotype, MO).

- Scaphosepalum pulvinare*** (Rchb.f.) Rolfe, J. Bot. 28: 137. 1890. *Masdevallia pulvinaris* Rchb.f., Gard. Chron. 1: 200. 1880.
ILLUSTRATION: Luer 1988, pl. 33 (p. 85).
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Calvert s.n.* (holotype, W).
- Scaphosepalum swertiifolium*** (Rchb.f.) Rolfe, J. Bot. 28: 137. 1890. *Masdevallia swertiifolia* Rchb.f., Gard. Chron., n.s. 2: 390. 1880.
ILLUSTRATION: Luer 1988, pl. 35–38 (p. 89–93). Fig. 16C.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Lehmann 544* (holotype, W).
- Scaphosepalum tiaratum*** Luer, Phytologia 49: 223. 1981.
ILLUSTRATION: Luer 1988, pl. 39 (p. 95).
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 5255* (holotype, SEL).
- Scaphosepalum verrucosum*** (Rchb.f.) Pfitzer, Nat. Pflanzenfam. (ed. 2) 2(6): 139. 1888. *Humboldtia verrucosa* (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Masdevallia verrucosa* Rchb.f., Linnaea 22: 819. 1849. *Pleurothallis verrucosa* (Rchb.f.) Rchb.f., Bonplandia (Hannover) 2: 24. 1854.
ILLUSTRATION: Luer 1988, pl. 42 (p. 101).
DISTRIBUTION: *COL.
TYPE: Colombia, *Schlim 1439* (holotype, W; isotypes, G, P).
SPECKLINIA Lindl.
- Specklinia acrisepala*** (Ames & C.Schweinf.) Pridgeon & M.W.Chase, Lindleyana 16(4): 256. 2001. *Pleurothallis acrisepala* Ames & C.Schweinf., Sched. Orch. 8: 22–23. 1925. *Sarcinula acrisepala* (Ames & C.Schweinf.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 203.
ILLUSTRATION: Luer 2006, f. 156; Misas Urreta 2005, p. 510, p. 511; Karremans *et al.* 2016, f. 6g; Karremans & Vieira-Urbe 2020, p. 293, p. 300; Karremans *et al.* 2020, f. 1.
DISTRIBUTION: COL COS ECU HON PAN.
TYPE: Panama, *Powell 420* (holotype, AMES).
VOUCHER: Colombia, *Lellinger & de la Sota 17* (US).
- Specklinia areldii*** (Luer) Pridgeon & M.W.Chase, Lindleyana 16(4): 256. 2001. *Pleurothallis areldii* Luer, Selbyana 2(4): 383–384. 1978. *Sarcinula areldii* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 204–205, f. 158. 2006.
ILLUSTRATION: Luer 2006, f. 158; Misas Urreta 2005, p. 516, p. 517; Karremans & Vieira-Urbe 2020, p. 295.
DISTRIBUTION: COL PAN.
TYPE: Panama, *Luer 1653* (holotype, SEL).
VOUCHER: Colombia, *Luer 18443* (MO).
- Specklinia brighamii*** (S. Watson) Pridgeon & M.W.Chase, Lindleyana 16(4): 256. 2001. *Pleurothallis brighamii* S. Watson, Proc. Amer. Acad. Arts 23(2): 285–286. 1888. *Sarcinula brighamii* (S. Watson) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 206–207. 2006.
ILLUSTRATION: Stenzel 2004, f. 6; Luer 2006, f. 161; Karremans *et al.* 2016, f. 6g; Karremans & Vieira-Urbe 2020, p. 294; Karremans *et al.* 2020, f. 4.
DISTRIBUTION: BEL COL COS CUB ECU ELS GUA HAI HON JAM L.A. MEX NIC PAN.
TYPE: Guatemala, *Watson s.n.* (holotype, AMES).
VOUCHER: Colombia, *Duque 2038* (JAU).
- Specklinia cactantha*** (Luer) Pridgeon & M.W.Chase, Lindleyana 16(4): 257. 2001. *Pleurothallis cactantha* Luer, Selbyana 3(1–2): 72–73. 1976. *Sylphia cactantha* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 228. 2006.
ILLUSTRATION: Luer 2006, f. 180; Karremans & Vieira-Urbe 2020, p. 295.
DISTRIBUTION: COL PAN.
TYPE: Panama, *Dressler 743* (holotype, SEL).
VOUCHER: Colombia, *Luer et al. 16845* (MO).
- Specklinia calderae*** (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 259. 2004. *Pleurothallis calderae* Luer, Orquideologia 22(1): 53–56. 2001. *Sarcinula calderae* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 207–208. 2006.
ILLUSTRATION: Luer 2001b, p. 55; Luer 2006, f. 162. Fig. 16D.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 14273* (holotype, MO).
- Specklinia calyptrostele*** (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16(4): 257. 2001. *Pleurothallis calyptrostele* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 19: 23. 1923.
ILLUSTRATION: Luer 2006, f. 2; Luer 1975e, f. 86; Misas Urreta 2005, p. 526, p. 527; Karremans *et al.* 2016, f. 7f; Karremans & Vieira-Urbe 2020, p.

290, p. 301. Fig. 16E.

DISTRIBUTION: COL COS PAN.

TYPE: Costa Rica, *Wercklé 148* [holotype, B, destroyed; lectotype, AMES (Luer 2006)].

VOUCHER: Colombia, *Misas Urreta 305* (HPUJ).

Specklinia campylotyle (P.Ortiz) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 257. 2001. *Acostaea campylotyle* P.Ortiz, *Orquideología* 13(3): 240, 246. 1979.

ILLUSTRATION: Ortiz 1979b, p. 241, p. 243 (top, left); Luer 1987, pl. 1; Vieira-Uribe & Karremans 2018a, f. 2b; Karremans & Vieira-Uribe 2020, p. 280.

DISTRIBUTION: *COL.

TYPE: Colombia, *Ortiz & Restrepo 247* (holotype, COL).

Specklinia caulophryne S.Vieira-Uribe & Karremans, *Orquideología* 35(2): 165. 2018.

ILLUSTRATION: Vieira-Uribe & Karremans 2018a, f. 1, f. 2a, f. 3; Karremans & Vieira-Uribe 2020, p. 279.

DISTRIBUTION: *COL.

TYPE: Colombia, *Vieira et al. 26* (holotype, JAUM).

Specklinia colombiana (Garay) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 257. 2001. *Acostaea colombiana* Garay, *Orquideología* 9: 112. 1974. *Acostaea costaricensis* subsp. *colombiana* (Garay) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 24: 10. 1988.

ILLUSTRATION: Luer 1975d, f. 42; Ortiz 1982, p. 165, p. 167; Luer 1987, pl. 3, pl. 4; Karremans *et al.* 2016, f. 4f, f. 7i; Karremans & Vieira-Uribe 2020, p. 277, p. 278, p. 300.

DISTRIBUTION: COL COS ECU PAN.

TYPE: Colombia, *Arango s.n.* (holotype, AMES).

Specklinia corniculata (Sw.) Steud., *Nomencl. Bot.* (ed. 2) 1: 489. 1840. *Sarcinula corniculata* (Sw.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 209–211, f. 165. 2006. *Cymbidium corniculatum* (Sw.) Spreng., *Syst. Veg.* 3: 722. 1826. *Dendrobium corniculatum* (Sw.) Sw., *Nova Acta Regiae Soc. Sci. Upsal.* 6: 83. 1799. *Epidendrum corniculatum* Sw., *Prodr. Fl. Ind. Orient.* 1: 123. 1788. *Humboldtia corniculata* (Sw.) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891. *Pleurothallis corniculata* (Sw.) Lindl., *Edwards's Bot. Reg.* 28: Misc. 83. 1842.

ILLUSTRATION: Stenzel 2004, f. 8; Luer 2006, f. 165; Karremans & Vieira-Uribe 2020, p. 272.

DISTRIBUTION: BEL COL COS CUB FRE GUA GUY HAI HON JAM NIC PAN VEN.

TYPE: Jamaica, *Swartz s.n.* (holotype, S-R-1935; isotypes, BM [not seen], LD-1732006, M-0226530, UPS [not seen], W-R-0026609).

VOUCHER: Colombia, *Monsalve 1003* (CUVC).

Note: Kolanowska (2014) presumably selected an isotype at W as lectotype, without specifying nor annotating any particular sheet or specimen. Regardless, it is debatable if this taxon truly requires a lectotype given that there is an annotated specimen in Swartz's herbarium at S. The latter, in any case, would certainly have priority as lectotype.

Specklinia coronula (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 259. 2004. *Pleurothallis coronula* Luer, *Orquideología* 21(3): 325–329. 2000, *nom. superfl.* *Pleurothallis coronula* Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 76: 171. 1999. *Sarcinula coronula* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 211. 2006.

ILLUSTRATION: Luer 1999a, f. 23a; Luer 2000d, p. 326; Luer 2006, f. 166; Karremans & Vieira-Uribe 2020, p. 282.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Luer 18824* (holotype, MO).

Specklinia costaricensis (Rolfe) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 257. 2001. *Pleurothallis costaricensis* Rolfe, *Bull. Misc. Inform. Kew* 1917(2): 80. 1917.

ILLUSTRATION: Luer 2006, f. 4; Karremans *et al.* 2016, f. 7g; Karremans & Vieira-Uribe 2020, p. 285.

DISTRIBUTION: COL COS ECU PAN.

TYPE: Costa Rica, *Lankester s.n.* [Lectotype, K; (Luer 2006)]. Costa Rica, *Lankester 21* [Lectotype, K-000463188, Luer (2023)].

VOUCHER: Colombia, *Lehmann 7080* (AMES, W).

Note: A lectotype for this taxon was initially selected by Luer (2006), but it not clear which of the many specimens of this species collected by Lankester conserved at Kew was actually meant. One was afterwards specified by Luer (2023).

Specklinia cycesis (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 260. 2004. *Pleurothallis cycesis* Luer & R.Escobar, *Orquideología* 20: 49. 1996. *Sarcinula cycesis* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 105: 212. 2006.

ILLUSTRATION: Luer & Escobar 1996, p. 51; Luer 2006, f. 167; Misas Urreta 2005, p. 530, p. 531; Karremans & Vieira-Urbe 2020, p. 282.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 14290* (holotype, MO).

Specklinia dunstervillei Karremans, Pupulin & Gravend., PLoS ONE 10(7): e13197(5). 2015.

ILLUSTRATION: Karremans et al. 2015a, f. 1A–B, f. 3–8; Luer 1986, pl. 18; Misas Urreta 2005, p. 534, p. 535; Karremans et al. 2016, f. 4h; Karremans & Vieira-Urbe 2020, p. 268.

DISTRIBUTION: COL COS PAN VEN.

TYPE: Venezuela, *Karremans & Gravendeel 5966* (holotype, JBL-spirit; isotype, L-spirit).

VOUCHER: Colombia, *Misas Urreta 291* (HPUJ).

Note: The Colombian material of this taxon have been previously misidentified as *Specklinia endotrachys* and *S. remotiflora*, neither is known to occur in the country.

Specklinia fulgens (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16(4): 257. 2001. *Humboldtia fulgens* (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis fulgens* Rchb.f., Gard. Chron., n.s. 4(95): 516. 1875. *Sarcinula fulgens* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 213–214. 2006.

ILLUSTRATION: Luer 2006, f. 170; Karremans et al. 2016, f. 6h; Karremans & Vieira-Urbe 2020, p. 271, p. 302.

DISTRIBUTION: COL COS PAN.

TYPE: Costa Rica, *Endrés 2512* [lectotype, W-R-0025509/W-0020353 (Luer 2023)]

VOUCHER: Colombia, *Juncosa 1692* (JAUM).

Specklinia glandulosa (Ames) Pridgeon & M.W.Chase, Lindleyana 16(4): 257. 2001. *Pleurothallis glandulosa* Ames, Sched. Orch. 6: 60–61. 1923. *Sarcinula glandulosa* (Ames) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 214–215. 2006.

ILLUSTRATION: Luer 2006, f. 171; Karremans et al. 2015b, f. 1E, f. 2C, f. 9, f. 10, f. 18E; Karremans & Vieira-Urbe 2020, p. 264.

DISTRIBUTION: BEL COL COS GUY HON PAN SUR.

TYPE: Panama, *Powell 306* (holotype, AMES; isotype, MO).

VOUCHER: Colombia, *Prance 28011* (COL).

Specklinia gracillima (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16(4): 257. 2001. *Humboldtia gracillima* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis gracillima* Lindl., Fol. Orchid. ~Pleurothallis~ 35. 1859.

ILLUSTRATION: Luer 1975a, f. 9 (p. 75); Luer 2006, f. 11; Karremans & Vieira-Urbe 2020, p. 286.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Jameson s.n.* (holotype, K).

Specklinia grobyi (Bateman ex Lindl.) F.Barros, Hoehnea 10: 110. 1983 [1984]. *Humboldtia grobyi* (Bateman ex Lindl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis grobyi* Bateman ex Lindl., Edwards's Bot. Reg. 21: t. 1797. 1835. *Specklinia grobyi* (Bateman ex Lindl.) Pridgeon & M.W.Chase, Lindleyana 16(4): 258. 2001, *nom. superfl.*

ILLUSTRATION: Luer 2006, f. 13; Misas Urreta 2005, p. 542, p. 543; Karremans et al. 2016, f. 5c, f. 6a; Karremans & Vieira-Urbe 2020, p. 284; Bogarín & Pupulin 2021, f. 13h, f. 51.

DISTRIBUTION: BEL BOL BRA COL COS ECU ELS FRE GUA GUY MEX NIC PAN PER SUR VEN.

TYPE: Guyana, *Bateman s.n.* (holotype, K).

Specklinia leptantha (Schltr.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 261. 2004. *Pleurothallis leptantha* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 107. 1920. *Sarcinula leptantha* (Schltr.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 215–216. 2006.

ILLUSTRATION: Luer 2006, f. 173.

DISTRIBUTION: *COL.

TYPE: Colombia, *Smith 2554* [holotype, B, destroyed; lectotype, AMES, (Luer 2006); isolectotypes, AMES, CM, NY, US].

Specklinia microphylla (A.Rich. & Galeotti) Pridgeon & M.W.Chase, Lindleyana 16(4): 258. 2001. *Humboldtia microphylla* (A.Rich. & Galeotti) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Pleurothallis microphylla* A.Rich. & Galeotti, Ann. Sci. Nat., Bot., sér. 3, 3: 17. 1845.

ILLUSTRATION: Luer 2006, f. 18; Karremans & Vieira-Urbe 2020, p. 285 (third row left).

DISTRIBUTION: BEL COL COS ECU HON JAM MEX NIC PAN.

TYPE: Mexico, *Galeotti 5175* (holotype, W).

VOUCHER: Colombia, *Cárdenas-López 2069* (JAUM).

- Specklinia morganii*** (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 262. 2004. *Pleurothallis morganii* Luer, Lindleyana 11(3): 171. 1996.
ILLUSTRATION: Luer 2006, f. 21; Luer 1996c, f. 38; Misas Urreta 2005, p. 577, p. 576; Karremans & Vieira-Urbe 2020, p. 290.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer 4834* (holotype, SEL).
VOUCHER: Colombia, *Misas Urreta 342* (HPUJ).
- Specklinia picta*** (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16(4): 259. 2001. *Humboldtia picta* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Pleurothallis picta* Lindl., Edwards's Bot. Reg. 21: sub. t. 1797. 1835.
ILLUSTRATION: Cogniaux 1896, f. 6 (p. 116); Luer 2006, f. 28; Karremans & Vieira-Urbe 2020, p. 286. Fig. 16F.
DISTRIBUTION: BRA BOL COL COS ECU GUA GUY PAN PER SUR.
TYPE: Guyana, *Loddiges s.n.* (holotype, K).
- Specklinia purpurella*** (Luer) Pridgeon & M.W.Chase, Lindleyana 16(4): 259. 2001. *Pleurothallis purpurella* Luer, Orquideología 21(3): 335–337. 2000, *nom. superfl.* *Pleurothallis purpurella* Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 76: 176. 1999. *Sarcinula purpurella* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 217. 2006.
ILLUSTRATION: Luer 1999a, f. 31a; Luer 2000d, p. 336; Luer 2006, f. 175.
DISTRIBUTION: *COL.
TYPE: Colombia, *Lehmann 1043* (holotype, K).
- Specklinia recula*** (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 263. 2004. *Pleurothallis recula* Luer, Lindleyana 11(2): 92. 1996.
ILLUSTRATION: Luer 2006, f. 31; Misas Urreta 2005, p. 556, p. 557; Karremans *et al.* 2016, f. 5d; Karremans & Vieira-Urbe 2020, p. 282, p. 298.
DISTRIBUTION: COL COS ECU PAN.
TYPE: Ecuador, *Hirtz & Ortega 5364* (holotype, MO).
- Specklinia scolopax*** (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16(4): 259. 2001. *Pleurothallis scolopax* Luer & R.Escobar, Orquideología 14(2): 172. 1981. *Sarcinula scolopax* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 217. 2006.
ILLUSTRATION: Luer & Escobar 1981a, p. 173; Luer 2006, f. 176; Misas Urreta 2005, p. 564, p. 565; Karremans & Vieira-Urbe 2020, p. 291.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 1518* (holotype, JAUM).
- Specklinia simmleriana*** (Rendle) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 263. 2004. *Pleurothallis simmleriana* Rendle, J. Bot. 38(451): 274–275. 1900. *Sarcinula simmleriana* (Rendle) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 218. 2006.
ILLUSTRATION: Luer 2006, f. 177; Karremans *et al.* 2016, f. 7l; Karremans & Vieira-Urbe 2020, p. 294; Karremans *et al.* 2020, f. 5.
DISTRIBUTION: COL COS HON PAN.
TYPE: Costa Rica, *Tonduz s.n.* (holotype, BM-000082204; isotype, G).
- Specklinia striata*** (H.Focke) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 264. 2004. *Humboldtia striata* (H.Focke) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Pleurothallis striata* H.Focke, Tijdschr. Wis-Natuurk. Wetensch. Eerste Kl. Kon. Ned. Inst. Wetensch. 4: 63–64. 1851. *Sarcinula striata* (H.Focke) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 219. 2006.
ILLUSTRATION: Luer 2006, f. 178; Karremans & Vieira-Urbe 2020, p. 294.
DISTRIBUTION: COL ECU FRE GUY PAN SUR.
TYPE: Suriname, *Focke 77* [lectotype (selected here), W-R-0025668, middle illustr. '23 Maart 1850'; isolectotype, K-L].
VOUCHER: Colombia, *Lozano-Contreras s.n.* (COL).
Note: The type sheet at W-R contains several different materials, including actual specimens. However, the specimens carry a note by Focke suggesting they were identified after having described *P. striata*, and they are in contradiction with the protologue since they show multiple inflorescences and multiple flowers. The middle illustration, which has been selected as lectotype, agrees with the protologue, also regarding preparation dates.
- Specklinia tenax*** (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16(4): 259. 2001. *Acostaea tenax* Luer & R.Escobar, Orquideología 15: 123. 1982.
ILLUSTRATION: Luer & Escobar 1982, p. 124; Luer 1987, pl. 6.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer & Escobar 6603* (holotype, SEL; isotype, JAUM).

Specklinia trilobata (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 259. 2001. *Acostaea trilobata* Luer, *Selbyana* 1(3): 216. 1975.

ILLUSTRATION: Luer 1987, pl. 7; Luer 1975d, f. 43; Karremans & Vieira-Urbe 2020, p. 280. p. 301.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer et al. 465* (holotype, SEL)

VOUCHER: A photographic voucher of a Colombian specimen reproduced in Karremans & Vieira-Urbe 2020, p. 280, p. 301.

STELIS SW.

Stelis acuífera Lindl., *Fol. Orchid.* ~Stelis~ 12. 1852–1855 [1859].

ILLUSTRATION: Luer 2002a, f. 88; Ortiz & Uribe 2007 (CD Edition).

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Moritz s.n.* (holotype, K).

Stelis acuminosa Luer & R.Escobar, *Harvard Pap. Bot.* 21(1): 59. 2016.

ILLUSTRATION: Luer 2016a, f. 1.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 17660* (holotype, MO).

Stelis adinfinitum Luer & R.Escobar, *Harvard Pap. Bot.* 22(1): 27. 2017.

ILLUSTRATION: Luer 2017a, f. 1.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 2871* (holotype, SEL).

Stelis aggregata Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 193. 2016.

ILLUSTRATION: Luer 2016b, f. 1.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 17632* (holotype, MO).

Stelis alba Kunth, *Nov. Gen. Sp.* (quarto ed.) 1: 363. 1816.

ILLUSTRATION: Luer 2018a, f. 1; Ortiz & Uribe 2007 (CD Edition); Romero-González & Carnevalli 2000, p. 1004.

DISTRIBUTION: *COL.

TYPE: Colombia, *Bonpland 2073* (holotype, P; isotype, P).

Stelis alboviolacea Luer, *Harvard Pap. Bot.* 22(2): 81. 2017.

ILLUSTRATION: Luer 2017b, f. 1.

DISTRIBUTION: *COL.

TYPE: Colombia, *Silverstone-Sopkin 4532* (holotype, CUVC; isotype, CUVC).

Stelis aleanophila Luer, *Harvard Pap. Bot.* 22(2): 81. 2017.

ILLUSTRATION: Luer 2017b, f. 2.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 6739* (holotype, SEL).

Stelis alleyoop Luer & R.Escobar, *Harvard Pap. Bot.* 21(1): 59. 2016.

ILLUSTRATION: Luer 2016a, f. 2.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 7517* (holotype, SEL).

Stelis alloinfundibulosa J.M.H.Shaw, *Orchid Rev.* 122(1308): 77. 2014. *Stelis eucalypta* Luer, *Harvard Pap. Bot.* 22(1): 39. 2017, *nom. superfl.* *Stelis infundibulosa* Luer, *Selbyana* 30(1): 22, f. 42. 2009, *nom. illeg.* Non *Stelis infundibulosa* (Luer) Pridgeon & M.W.Chase [2001].

ILLUSTRATION: Luer 2009b, f. 42; Luer 2017a, f. 23.

DISTRIBUTION: *COL.

TYPE: Colombia, *Silverstone-Sopkin et al. 4793* (holotype, CUVC).

Stelis amaliae (Luer & R.Escobar) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 261. 2001. *Pleurothallis amaliae* Luer & R.Escobar, *Orquideología* 14(2): 124. 1981. *Unciferia amaliae* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 265. 2004.

ILLUSTRATION: Luer & Escobar 1981a, p. 125; Luer 1998b, f.1 (p. 98).

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 3006* (holotype, SEL).

Stelis amaliana Luer, *Harvard Pap. Bot.* 22(2): 112. 2017. *Stelis amaliae* Luer & R.Escobar, *Harvard Pap. Bot.* 22(1): 27. 2017, *nom. illeg.* Non *Stelis amaliae* (Luer & R.Escobar) Pridgeon & M.W.Chase [2001].

ILLUSTRATION: Luer 2017a, f. 2.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 8447* (holotype, SEL)

Stelis ambrosia Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 193. 2016.

ILLUSTRATION: Luer 2016b, f. 2, f. 3.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 8447* (holotype, SEL)

Stelis ambrosia Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 193. 2016.

ILLUSTRATION: Luer 2016b, f. 2, f. 3.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 3071* (holotype, SEL).

- Stelis amilotensis*** Luer & R.Escobar, Harvard Pap. Bot. 22(2): 82. 2017.
ILLUSTRATION: Luer 2017b, f. 3.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 7479* (holotype, SEL).
- Stelis amphigena*** O.Duque, Orquideología 27(1): 5, 6, Fotos 1–2. 2010.
ILLUSTRATION: Duque 2010a, f. 1, ph. 1–2.
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 1802* (holotype, JAUM).
- Stelis anchorilabia*** O.Duque, Orquideología 27(1): 6, 8, Fotos 3–5. 2010.
ILLUSTRATION: Duque 2010a, f. 2, ph. 3–5.
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 2195* (holotype, JAUM).
- Stelis ancistra*** (Luer & Hirtz) Pridgeon & M.W.Chase, Lindleyana 16(4): 261. 2001. *Pleurothallis ancistra* Luer & Hirtz, Lindleyana 11(3): 144–145. 1996. *Unciferia ancistra* (Luer & Hirtz) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 265. 2004.
ILLUSTRATION: Luer 1996c, f. 5, Luer 1998b, f.2 (p.98).
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Hirtz 1469* (holotype, MO).
VOUCHER: Colombia, *Lehmann s.n.* (K).
- Stelis andrei*** Luer, Selbyana 30(1): 20. 2009.
ILLUSTRATION: Luer 2009b, f. 38.
DISTRIBUTION: *COL.
TYPE: Colombia, *André 366* (holotype, K).
- Stelis angelica*** Karremans, Phytotaxa 496(2): 136. 2021. *Crocodelanthus saccata* Kolan. & Szlach., Phyt. Annales Rei Botanicae 60: 134–136. 2020. Non *Stelis saccata* Luer & Hirtz [2002].
ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 35; Karremans *et al.* 2021, f. 4.
DISTRIBUTION: *COL.
TYPE: Colombia, *Schultes & Villarreal 7842* [lectotype, AMES-02084620; isolectotype, AMES-02084544 (Karremans *et al.* 2021)].
- Stelis angustifolia*** Kunth, Nov. Gen. Sp. (quarto ed.) 1: 362. 1816.
ILLUSTRATION: Luer 2009a, f. 381, f. 399; Luer 2018a, f. 2–4; Luer 2018b, f. 69.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Humboldt & Bonpland s.n.* (holotype, P).
- Stelis anisopetala*** O.Duque, Orquideología 27(1): 10, 12. 2010.
ILLUSTRATION: Duque 2010a, f. 3, ph. 6–8.
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 2301* (holotype, JAUM).
- Stelis antioquiënsis*** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 83. 1920.
DISTRIBUTION: *COL.
TYPE: Colombia, *Lehmann 3175* [holotype, B, destroyed; lectotype (selected here), BR-0000006592523; isotypes, BM-0000006592523, K-000573887, US-00093536; photo of type, AMES-00090519].
Note: The specimen at K has been indicated as holotype. Not only is this unlikely given that Schltr.'s herbarium was lost at Berlin, but the information and dimensions of the specimen at K don't fit well with the protologue. An isotype at BR more closely fitting the description is selected as lectotype.
- Stelis aprica*** Lindl., Companion Bot. Mag. 2: 353. 1837.
ILLUSTRATION: Cogniaux 1896, t. 80 (III); Luer 2009a, f. 352; Luer 2018b, f. 7.
DISTRIBUTION: BOL BRA COL ECU ELS GUY HON NIC PAN PER SUR VEN.
TYPE: Brazil, *Martius s.n.* (holotype, K).
VOUCHER: Colombia, *Viveros 773* (HUQ).
- Stelis arbuscula*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 60. 2016.
ILLUSTRATION: Luer 2016a, f. 3.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 9029* (holotype, SEL).
- Stelis argentata*** Lindl., Edwards's Bot. Reg. 28: Misc. 64. 1842.
ILLUSTRATION: Cogniaux 1896, t. 80 (II), t. 81 (I); Luer 2009a, f. 353–353b; Luer 2018b, f. 8, Luer 2018c, f. 1, f. 2; Misas Urreta 2005, p. 674; Ortiz & Uribe 2007 (CD Edition); Romero-González & Carnevalli 2000, p. 1005.
DISTRIBUTION: BOL BRA COL COS ECU HON FRE GUA GUY MEX NIC PAN PER SUR VEN.
TYPE: Guyana, *Schomburgk 427* [lectotype, K (Christenson 1996); isolectotype, US].
VOUCHER: Colombia, *Silverstone-Sopkin 8302* (MO).
- Stelis arrecta*** Luer & R.Escobar, Harvard Pap. Bot. 21(2): 195. 2016.
ILLUSTRATION: Luer 2016b, f. 4.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 10362* (holotype, MO).

- Stelis ascendens*** Lindl., Companion Bot. Mag. 2: 353. 1836.
ILLUSTRATION: Luer 2002a, f. 38; Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Hall s.n.* (holotype, K).
VOUCHER: Colombia, *Dodson 15281* (MO).
- Stelis asseris*** O.Duque, Orquideología 20(3): 329–330. 1997.
ILLUSTRATION: Duque 1997, f. 1, ph. 1–3 (pl. I); Duque 2010b, f. 18, ph. 48–50; Luer 2018a, f. 6–7.
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 1400* (holotype, JAUM).
- Stelis atomacea*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 60. 2016.
ILLUSTRATION: Luer 2016a, f. 4.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 3693* (holotype, SEL).
- Stelis atra*** Lindl., Orchid. Linden. 3, n. 15. 1846. *Stelis hallii* var. *atra* (Lindl.) Garay & C.Schweinf., Fieldiana, Bot. 33: 11. 1970.
ILLUSTRATION: Luer 2004, f. 152 (p. 182); Luer 2009a, f. 152a (p. 205), Luer 2017a, f. 13; Luer 2018b, f. 9; Luer 2018c, f. 9, f. 10; Romero-González & Carnevalli 2000, p. 1006.
DISTRIBUTION: BOL COL ECU PER VEN.
TYPE: Venezuela, *Linden 687* (holotype, K).
VOUCHER: Colombia, *Vélez 1600* (HUQ).
- Stelis atrovioleacea*** Rchb.f., Bonplandia (Hannover) 3: 70. 1855.
ILLUSTRATION: Luer 2007, f. 256; Ortiz & Uribe 2007 (CD Edition); Romero-González & Carnevalli 2000, p. 1007.
DISTRIBUTION: COL ECU VEN.
TYPE: Colombia, *Wagner s.n.* (holotype, W).
- Stelis attenuata*** Lindl., Fol. Orchid. ~*Stelis* 2. n. 7. 1852–1855 [1859].
ILLUSTRATION: Luer 2007, f. 251; Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: COL ECU PER.
TYPE: Colombia, *Purdie s.n.* (holotype, K).
- Stelis aurea*** (Lindl.) Karremans, Lankesteriana 13(3): 328. 2014. *Pleurothallis aurea* Lindl., Ann. Mag. Nat. Hist. 12(79): 397. 1843.
ILLUSTRATION: Cogniaux 1896, f. 1 (p. 110); Luer 1975a, f. 1 (p. 59); Luer 1999a, f. 1 (p. 126).
DISTRIBUTION: BOL BRA COL ECU PER VEN.
TYPE: Venezuela, *Linden 634* (holotype, K-L-000334396; isotypes, F-0046447F, G-00168961, LE-00001408, W-R-0053798, W-R-0012745, W-R-0046081).
VOUCHER: Colombia, *García-Barriga & Jaramillo 19885* (AMES, COL).
- Stelis auriculata*** O.Duque, Orquideología 27(1): 14, 16. 2010.
ILLUSTRATION: Duque 2010a, f. 5, ph. 13–14.
DISTRIBUTION: *COL.
TYPE: Colombia, *Villegas s.n.* (holotype, JAUM).
- Stelis aviceps*** Lindl., Fol. Orchid. ~*Stelis* 16, n. 121. 1852–1855 [1859].
ILLUSTRATION: Luer 2009a, f. 310; Ortiz & Uribe 2007 (CD Edition); Romero-González & Carnevalli 2000, p. 1008.
DISTRIBUTION: BOL COL ECU GUY PER VEN.
TYPE: Ecuador, *Jameson s.n.* (holotype, K).
VOUCHER: Colombia, *Viveros 396* (HUQ).
- Stelis barbuda*** O.Duque, Orquideología 20(3): 330–331. 1997.
ILLUSTRATION: Duque 1997, f. 2, ph. 4–6 (pl. I).
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 1896* (holotype, JAUM).
- Stelis barkleyi*** (Kolan. & Szlach.) Karremans, Phytotaxa 496(2): 136. 2021. *Crocodelanthe barkleyi* Kolan. & Szlach., Phytotaxa. Annales Rei Botanicae 60: 109–110. 2020.
ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 5.
DISTRIBUTION: *COL.
TYPE: Colombia, *Barkley & Bouthillette 38C057* (holotype, AMES; drawing, UGDA).
- Stelis batillacea*** (Luer) Pridgeon & M.W.Chase, Lindleyana 16(4): 261. 2001. *Crocodelanthe batillacea* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 256. 2004. *Pleurothallis batillacea* Luer, Selbyana 3(1–2): 58. 1976.
ILLUSTRATION: Luer 1998a, f. 6.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 853* (holotype, SEL).
VOUCHER: Colombia, *Luer 3142* (SEL).
- Stelis baudoensis*** Luer & R.Escobar, Harvard Pap. Bot. 22(1): 29. 2017.
ILLUSTRATION: Luer 2017a, f. 3; Misa Urruta 2005, p. 688.
DISTRIBUTION: *COL.
TYPE: Colombia, *de Wilde 3939* (holotype, SEL).

- Stelis bella*** O.Duque, *Orquideología* 20(3): 331–332. 1997.
 ILLUSTRATION: Duque 1997, f. 3, ph. 7–9 (pl. I); Ortiz & Uribe 2007 (CD Edition).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Duque 1592* (holotype, JAUM).
- Stelis bialaria*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(2): 82. 2017.
 ILLUSTRATION: Luer 2017b, f. 4.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 10351* (holotype, MO).
- Stelis bialata*** (Kolan. & Szlach.) Karremans, *Phytotaxa* 496(2): 136. 2021. *Crocodeilanthe bialata* Kolan. & Szlach., *Phyton. Annales Rei Botanicae* 60: 110–111. 2020.
 ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 6.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Mora 3256* (holotype, AMES; drawing, UGDA).
- Stelis bicolor*** Luer & Hirtz, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 143, 177. 2004.
 ILLUSTRATION: Luer 2004, f. 134 (p. 177).
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Hirtz 8420* (holotype, MO).
 VOUCHER: Colombia, *Duque 2338* (JAUM).
- Stelis bicornis*** Lindl., *Fol. Orchid.* ~*Stelis*~ 18, no. 133. 1852–1855 [1859].
 ILLUSTRATION: Luer 2009a, f. 311, f. 311a.
 DISTRIBUTION: COL ECU PER.
 TYPE: Ecuador, *Jameson 490* (holotype, K; isotypes, AMES, BM, G).
 VOUCHER: Colombia, *Duque 2039* (JAUM).
- Stelis bigibba*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 7: 84. 1920.
 ILLUSTRATION: Luer 2018a, f. 8.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Lehmann 6834* (holotype, B, destroyed; isotype, AMES). [holotype, B, destroyed; lectotype, AMES-00084071 (Luer 2018a); isolectotypes, LE-00001398, NY-00009386, K000573882].
- Stelis biserrula*** Lindl., *Fol. Orchid.* ~*Stelis*~ 16, n. 120. 1852–1855 [1859].
 ILLUSTRATION: Luer 2004, f. 119 (p. 137); Ortiz & Uribe 2007 (CD Edition); Duque 2010, pl. 5 (8, 9), pl. 6 (1).
 DISTRIBUTION: COL COS ECU PAN PER VEN.
 TYPE: Ecuador, *Jameson s.n.* (holotype, K).
 VOUCHER: Colombia, *Misas Urreta 281* (HPUJ).
- Stelis blandita*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(2): 82. 2017.
 ILLUSTRATION: Luer 2017b, f. 5.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 7606* (holotype, SEL).
- Stelis bogotensis*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 152. 1924.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Hopf s.n.* (holotype, B, destroyed).
 Note: An obscure taxon for which no original material seems to be available.
- Stelis bordoncillensis*** (Kolan. & Szlach.) Karremans, *Phytotaxa* 496(2): 136. 2021. *Crocodeilanthe bordoncillensis* Kolan. & Szlach., *Phyton. Annales Rei Botanicae* 60: 112. 2020.
 ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 8.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Medina et al. S18/12* (holotype, JAUM).
- Stelis boyacensis*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(1): 29. 2017.
 ILLUSTRATION: Luer 2017a, f. 4.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 7559* (holotype, SEL).
- Stelis braccata*** Rchb.f. & Warsz., *Bonplandia* (Hannover) 2: 114. 1854. *Apatostelis braccata* (Rchb.f. & Warsz.) Garay, *Bot. Mus. Leafl.* 27: 187. 1979.
 ILLUSTRATION: Luer 2009a, f. 355, f. 355a; Luer 2018c, f. 3; Romero-González & Carnevalli 2000, p. 1033.
 DISTRIBUTION: COL ECU VEN.
 TYPE: Colombia, *Warszewicz s.n.* (holotype, W; isotype, AMES; fragment of isotype, AMES-spirit).
- Stelis bracteolenta*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 195. 2016.
 ILLUSTRATION: Luer 2016b, f. 5. Fig. 15D.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 10369* (holotype, SEL).
- Stelis brevilabris*** Lindl., *Ann. Mag. Nat. Hist.* 5: 107. 1845.
 ILLUSTRATION: Luer 2002a, f. 99; Luer 2018c, f. 4; Ortiz & Uribe 2007 (CD Edition).
 DISTRIBUTION: COL ECU PER.
 TYPE: Colombia, *Hartweg 1411* (holotype, K; isotypes, BR, F, G, LD, LE, W).

- Stelis bucaremangae*** (Luer & R.Escobar) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 261. 2001. *Pleurothallis bucaremangae* Luer & R.Escobar, *Orquideología* 20: 38. 1996. *Crocodelanthe bucaremangae* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 256. 2004.
ILLUSTRATION: Luer & Escobar 1996, p. 39; Luer 1998a, f. 7.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 10107* (holotype, MO).
- Stelis calawayi*** Karremans, *Phytotaxa* 496(2): 136. 2021. *Crocodelanthe dodsonii* Kolan. & Szlach., *Phyton. Annales Rei Botanicae* 60: 117. 2020. Non *Stelis dodsonii* Luer [2002].
ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 14.
DISTRIBUTION: *COL.
TYPE: Colombia, *Dodson & Escobar 18130* (holotype, AMES; drawing, UGDA).
- Stelis calceolaris*** Garay, *Bot. Mus. Leafl.* 27(7–9): 185. 1979.
ILLUSTRATION: Garay 1979, f. VIII-c-10 (p. 234); Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: *COL.
TYPE: Colombia, *Karsten s.n.* (holotype, LE).
- Stelis calculosa*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(1): 62. 2016.
ILLUSTRATION: Luer 2016a, f. 6.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 16838* (holotype, MO).
- Stelis caldodsonii*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(1): 62. 2016.
ILLUSTRATION: Luer 2016a, f. 7.
DISTRIBUTION: *COL.
TYPE: Colombia, *Dodson & Escobar 15316* (holotype, MO).
- Stelis caliensis*** Luer, *Selbyana* 30(1): 21. 2009.
ILLUSTRATION: Luer 2009b, f. 40.
DISTRIBUTION: *COL.
TYPE: Colombia, *André 2642* (holotype, K).
- Stelis callosa*** Karremans, *Phytotaxa* 496(2): 136. 2021. *Crocodelanthe purpurea* Kolan. & Szlach., *Phyton. Annales Rei Botanicae* 60: 128–129. 2020. Non *Stelis purpurea* (Ruiz & Pav.) Willd. [1805].
ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 28.
DISTRIBUTION: *COL.
TYPE: Colombia, *García-Barriga & Jaramillo 19831bis* (holotype, AMES-102872; drawing, UGDA).
- Stelis calopsis*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(1): 29. 2017.
ILLUSTRATION: Luer 2017a, f. 5, 6.
DISTRIBUTION: *COL.
TYPE: Colombia, *Ecobar 5130* (holotype, SEL).
- Stelis calotricha*** Schltr., *Notizbl. Bot. Gart. Berlin-Dahlem* 7: 323. 1919.
ILLUSTRATION: Misa Urrreta 2005, p. 680.
DISTRIBUTION: BRA COL VEN.
TYPE: Brazil, *von Grossmann s.n.* (holotype, B, destroyed).
VOUCHER: Colombia, *Misa Urrreta 124* (HPUJ).
- Stelis carnalis*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(1): 63. 2016.
ILLUSTRATION: Luer 2016a, f. 8.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 11376* (holotype, MO).
- Stelis cassidis*** (Lindl.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 261. 2001. *Crocodelanthe cassidis* (Lindl.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 256. 2004. *Humboldtia cassidis* (Lindl.) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891. *Pleurothallis cassidis* Lindl., *Ann. Mag. Nat. Hist.* 15: 384. 1845.
ILLUSTRATION: Luer 1998a, f. 8, f. 9.
DISTRIBUTION: COL ECU PER.
TYPE: Colombia, *Hartweg s.n.* (holotype, K).
- Stelis catenata*** Karremans, *Lankesteriana* 13(3): 328. 2014. *Anathallis ramulosa* (Lindl.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 250. 2001. *Humboldtia ramulosa* (Lindl.) Kuntze, *Revis. Gen. Pl.* 2: 668. 1891. *Pleurothallis ramulosa* Lindl., *Fol. Orchid.* ~*Pleurothallis*~ 33. 1859. *Specklinia ramulosa* (Lindl.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 263. 2004. Non *Stelis ramulosa* Luer & Dalström [2004].
ILLUSTRATION: Luer 1999a, f. 21 (p. 131).
DISTRIBUTION: COL ECU VEN.
TYPE: Ecuador, *Jameson s.n.* (holotype, K-L).
VOUCHER: Colombia, *Ariste-Joseph A198* (US).
- Stelis caudex*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(1): 30. 2017.
ILLUSTRATION: Luer 2017a, f. 7, 8.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer & Escobar 8387* (holotype, SEL).
- Stelis caveata*** O.Duque, *Orquideología* 27(1): 16, 18. 2010.
ILLUSTRATION: Duque 2010a, f. 6, ph. 15–17.

- Stelis cochlearis*** Garay, *Canad. J. Bot.* 34: 352. 1956.
ILLUSTRATION: Luer 2016a, f. 40; Luer 2016b, f. 39; Luer 2018c, f. 5.
DISTRIBUTION: *COL.
TYPE: Colombia, *Johnson & Barkley 18C804* (holotype, US-2102700; isotypes, AMES, MEDEL).
- Stelis cochleata*** (Kolan. & Szlach.) Karremans, *Phytotaxa* 496(2): 137. 2021. *Crococdeilanthe cochleata* Kolan. & Szlach., *Phyton. Annales Rei Botanicae* 60: 113–114. 2020.
ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 10.
DISTRIBUTION: *COL.
TYPE: Colombia, *Pennell 10475* (holotype, AMES-40953; drawing, UGDA).
- Stelis cochliops*** Luer & Hirtz, *Harvard Pap. Bot.* 21(1): 63. 2016.
ILLUSTRATION: Luer 2016a, f. 9.
DISTRIBUTION: *COL.
TYPE: Colombia, *Hirtz 8562* (holotype, MO).
- Stelis cocornaënsis*** (Luer & R.Escobar) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 262. 2001. *Effusiella cocornaënsis* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 112: 106. 2007. *Pleurothallis cocornaënsis* Luer & R.Escobar, *Orquideología* 20: 45. 1996. *Specklinia cocornaënsis* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 259. 2004.
ILLUSTRATION: Luer & Escobar 1996, p. 47, p. 58 (middle left); Luer 2000a, f. 5 (p. 91).
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 5047* (holotype, JAUM; isotype, MO).
- Stelis coelochila*** Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 195, 198. 2004.
ILLUSTRATION: Luer 2009a, f. 358.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 9793* (holotype, MO).
VOUCHER: Colombia, *Duque 2136* (JAUM).
- Stelis colombiana*** Ames, *Sched. Orch.* 1: 4. 1922.
ILLUSTRATION: Luer 2018a, f. 11; Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: *COL.
TYPE: Colombia, *Pittier 1093* (holotype, AMES).
- Stelis colorata*** O.Duque, *Orquideología* 27(1): 24, 26. 2010.
ILLUSTRATION: Duque 2010a, f. 9, ph. 22–24.
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 2215* (holotype JAUM).
- Stelis colossus*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 198. 2016.
ILLUSTRATION: Luer 2016b, f. 9.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 16812* (holotype, MO).
- Stelis comica*** O.Duque, *Orquideología* 20(3): 338–339. 1997.
ILLUSTRATION: Duque 1997, f. 1 (p. 345), ph. 3–6 (pl. II); Luer 2018a, f. 12; Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 1232* (holotype, JAUM).
- Stelis conchipetala*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(2): 86. 2017.
ILLUSTRATION: Luer 2017b, f. 9.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 6838* (holotype, SEL).
- Stelis concinna*** Lindl., *J. Bot. (Hooker)* 1: 11. 1834.
ILLUSTRATION: Luer 2002a, f. 67; Luer 2009a, f. 67b; Luer 2018b, f. 30; Luer 2018c, f. 6; Romero-González & Carnevalli 2000, p. 1019.
DISTRIBUTION: BOL COL ECU PER VEN.
TYPE: Ecuador, *Hall s.n.* (holotype, K).
VOUCHER: Colombia, *Escobar 5145* (JAUM, MO).
- Stelis convoluta*** (Lindl.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 262. 2001. *Specklinia convoluta* (Lindl.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 259. 2004. *Effusiella convoluta* (Lindl.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 112: 106. 2007. *Humboldtia convoluta* (Lindl.) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891. *Pleurothallis convoluta* Lindl., *Ann. Mag. Nat. Hist.* 15: 107. 1845.
ILLUSTRATION: Luer 1999b, p. 123; Luer 2000a, f. 7 (p. 91).
DISTRIBUTION: *COL.
TYPE: Colombia, *Hartweg 1414* (holotype, K-L; isotypes, AMES-00074175, BM-000082417, BR-0000006585389, G-00168959, K-000584190, K-001382013, K-001382012, LD-1404157, W-R-0012245).
- Stelis corae*** Foldats, *Acta Bot. Venez.* 3: 401. 1968. *Apatostelis corae* (Foldats) Garay, *Bot. Mus. Leaff.* 27: 188. 1980.
ILLUSTRATION: Foldats 1968, f. 31; Romero-González & Carnevalli 2000, p. 1012.
DISTRIBUTION: COL VEN.
TYPE: Venezuela, *Steyermark & Dunsterville 98725* (holotype, VEN).

VOUCHER: An illustration voucher of a Colombian specimen reproduced in Ortiz & Uribe 2007 (CD Edition).

Stelis cordilabia (Kolan. & Szlach.) Karremans, Phytotaxa 496(2): 137. 2021. *Crocodelanthus cordilabia* Kolan. & Szlach., Phytotaxa. Annales Rei Botanicae 60: 114–115. 2020.

ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 11.

DISTRIBUTION: *COL.

TYPE: Colombia, *Garay 970* (holotype, AMES; drawing, UGDA).

Stelis crassilabia Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 87. 1920.

ILLUSTRATION: Romero-González & Carnevalli 2000, p. 1014.

DISTRIBUTION: COL VEN.

TYPE: Colombia, *Lehmann 2102* [holotype, B, destroyed; lectotype (selected here), K-000573874; isoelectotypes, BM-000084121, BR-0000006594091, US-00093553].

Stelis crassisejala Luer & R.Escobar, Harvard Pap. Bot. 22(1): 33. 2017.

ILLUSTRATION: Luer 2017a, f. 10.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 3052* (holotype, SEL).

Stelis craticula Luer & R.Escobar, Harvard Pap. Bot. 22(1): 33. 2017.

ILLUSTRATION: Luer 2017a, f. 11.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 14206* (holotype, SEL).

Stelis crenulata O.Duque, Orquideología 27(1): 28, 30. 2010.

ILLUSTRATION: Duque 2010a, f. 10, ph. 25–27.

DISTRIBUTION: *COL.

TYPE: Colombia, *Duque 2115* (holotype, JAUM).

Stelis crescenticola Schltr., Repert. Spec. Nov. Regni Veg. 16(468–473): 442. 1920.

DISTRIBUTION: COL COS ELS NIC PAN.

TYPE: Panama, *Lehmann 4540* [holotype, B, destroyed; lectotype, US-00093554 (814880), Luer (2023); isoelectotype, LE-00001389; illustration, AMES].

VOUCHER: Colombia, *Duque 2139* (JAUM).

Stelis cruenta O.Duque, Orquideología 27(1): 30, 32, 34, Fotos 28–30. 2010.

ILLUSTRATION: Duque 2010a, f. 11, ph. 28–30.

DISTRIBUTION: *COL.

TYPE: Colombia, *Duque 1960* (holotype, JAUM).

Stelis cuatrecasasii (Luer) Pridgeon & M.W.Chase, Lindleyana 16(4): 262. 2001. *Crocodelanthus cuatrecasasii* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 256. 2004. *Pleurothallis cuatrecasasii* Luer, Orquideología 20: 208. 1996.

ILLUSTRATION: Luer 1996f, 209; Luer 1998a, f. 14.

DISTRIBUTION: *COL.

TYPE: Colombia, *Cuatrecasas 19264* (holotype, NY).

Stelis cucullata Ames, Sched. Orch. 6: 52–53. 1923.

ILLUSTRATION: Romero-González & Carnevalli 2000, p. 1015.

DISTRIBUTION: COL COS NIC VEN.

TYPE: Costa Rica, *Lankester 475* (holotype, AMES-26975).

VOUCHER: Colombia, *Ospina 68* (JAUM).

Stelis cuculligera Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 27. 1924.

DISTRIBUTION: *COL.

TYPE: Colombia, *Hopp 169* (holotype, B, destroyed).
Note: An obscure taxon for which no original material seems to be available.

Stelis culmosa Luer & R.Escobar, Harvard Pap. Bot. 22(2): 86. 2017.

ILLUSTRATION: Luer 2017b, f. 10.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 7601* (holotype, SEL).

Stelis cundinamarcae Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 153. 1924.

DISTRIBUTION: *COL.

TYPE: Colombia, *Schnitter s.n.* (holotype, B, destroyed).

Note: An obscure taxon for which no original material seems to be available.

Stelis cupidinea Luer & R.Escobar, Harvard Pap. Bot. 22(2): 88. 2017.

ILLUSTRATION: Luer 2017b, f. 11.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 8451* (holotype, SEL).

Stelis cupreata Luer & R.Escobar, Harvard Pap. Bot. 22(1): 33. 2017.

ILLUSTRATION: Luer 2017a, f. 12.

DISTRIBUTION: *COL.

TYPE: Colombia, *de Wilde 4435* (holotype, SEL).

Stelis curiosa Luer & R.Escobar, Harvard Pap. Bot. 21(1): 65. 2016.

- ILLUSTRATION: Luer 2016a, f. 11.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 16772* (holotype, MO).
- Stelis cyathochila*** Luer & R.Escobar, Harvard Pap. Bot. 21(2): 198. 2016.
ILLUSTRATION: Luer 2016b, f. 11.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 10257* (holotype, MO).
- Stelis cycloglossa*** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 154. 1924.
DISTRIBUTION: *COL.
TYPE: Colombia, *Hopf s.n.* (holotype, B, destroyed).
Note: An obscure taxon for which no original material seems to be available.
- Stelis dapidis*** Luer & R.Escobar, Harvard Pap. Bot. 23(2): 146. 2018.
ILLUSTRATION: Luer 2018c, f. 7.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 6699* (holotype, SEL).
- Stelis dapsilis*** Pridgeon & M.W.Chase, Lindleyana 17(2): 99. 2002. *Crocodelanthe maxima* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 256. 2004. *Pleurothallis maxima* Luer, Selbyana 3(1–2): 140. 1976. *Stelis maxima* (Luer) Pridgeon & M.W.Chase, Lindleyana 16(4): 264. 2001, *nom. illeg.* Non *Stelis maxima* Lindl. [1845].
ILLUSTRATION: Luer 1998a, f. 39.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 651* (holotype, SEL).
VOUCHER: Colombia, *Luteyn 13299* (NY).
- Stelis dasysepala*** Luer & R.Escobar, Harvard Pap. Bot. 21(2): 198. 2016.
ILLUSTRATION: Luer 2016b, f. 10.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 8749* (holotype, SEL).
- Stelis decipiens*** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 155. 1924.
DISTRIBUTION: *COL.
TYPE: Colombia, *Schnitter s.n.* (holotype, B, destroyed).
Note: An obscure taxon for which no original material seems to be available.
- Stelis decipula*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 65. 2016.
ILLUSTRATION: Luer 2016a, f. 12.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 4506* (holotype, SEL).
- Stelis declivis*** (Lindl.) Luer, Selbyana 23(1): 44. 2002. *Anathallis declivis* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16(4): 248. 2001. *Humboldtia declivis* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis declivis* Lindl., Fol. Orchid. ~Pleurothallis~ 36, no. 218. 1859.
ILLUSTRATION: Luer 2009a, f. 362.
DISTRIBUTION: COL ECU PER.
TYPE: Ecuador, *Jameson s.n.* (holotype, K).
VOUCHER: Colombia, *García-Barriga 19828* (COL).
- Stelis dejavu*** Luer & R.Escobar, Harvard Pap. Bot. 22(2): 88. 2017.
ILLUSTRATION: Luer 2017b, f. 12.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 6672* (holotype, SEL).
- Stelis deltoidea*** (Kolan. & Szlach.) Karremans, Phytotaxa 496(2): 137. 2021. *Crocodelanthe deltoidea* Kolan. & Szlach., Phytotaxa. Annales Rei Botanicae 60: 116–117. 2020.
ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 13.
DISTRIBUTION: *COL.
TYPE: Colombia, *Garay et al. 135* (holotype, AMES; drawing, UGDA).
- Stelis dentata*** O.Duque, Orquideología 20(3): 339–340. 1997.
ILLUSTRATION: Duque 1997, f. 2 (p. 345), ph. 7–9 (pl. II); Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 1280* (holotype, JAUM).
- Stelis depauperata*** Lindl., Fol. Orchid. ~Stelis~ 16, no. 124. 1852–1855 [1859].
ILLUSTRATION: Luer 2007, f. 253; Luer 2009a, f. 253a; Misas Urreta 2005, p. 682.
DISTRIBUTION: COL ECU PER.
TYPE: Ecuador, *Jameson s.n.* (holotype, K).
VOUCHER: Colombia, *Misas Urreta 258* (HPUJ).
- Stelis desautelsii*** Luer, Harvard Pap. Bot. 22(2): 88. 2017.
ILLUSTRATION: Luer 2017b, f. 13.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 6765* (holotype, SEL).
- Stelis deutrodewildei*** J.M.H.Shaw, Orchid Rev. Suppl., 127(1326): 46. 2019. *Crocodelanthe dewildei* Luer & Toscano, Harvard Pap. Bot. 23(1): 47. 2018. *Stelis dewildei* (Luer & Toscano) Karremans, Phytotaxa 406(5): 265. 2019, *nom. illeg.* *Stelis toscanoi* Karre-

- mans, *Lankesteriana* 19(3): 289. 2019, *nom. superfl.* Non *Stelis dewildei* Luer & R.Escobar [2017].
ILLUSTRATION: Luer & Toscano de Brito 2018, f. 1.
DISTRIBUTION: *COL.
TYPE: Colombia, *de Wilde 339* (holotype, MO).
- Stelis dewildei*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(1): 34. 2017.
ILLUSTRATION: Luer 2017a, f. 14.
DISTRIBUTION: *COL.
TYPE: Colombia, *de Wilde 03* (holotype, SEL).
- Stelis dialissa*** Rchb.f., *Bonplandia* (Hannover) 3: 71. 1855. *Dialissa pulchella* Lindl., *Ann. Mag. Nat. Hist.* 15(96): 107. 1845. Non *Stelis pulchella* Kunth [1816].
ILLUSTRATION: Luer 2009a, f. 314; Luer 2018c, f. 8; Ortiz & Uribe 2007 (CD Edition). Fig. 14I.
DISTRIBUTION: COL ECU.
TYPE: Colombia, Hartweg 1413 (holotype, W; isotypes, BM, BR, G, K, LD, LE).
- Stelis digitifera*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(1): 67. 2016.
ILLUSTRATION: Luer 2016a, f. 13.
DISTRIBUTION: *COL.
TYPE: Colombia, Luer *et al.* 14179 (holotype, MO).
- Stelis dimidia*** (Luer) Karremans, *Lankesteriana* 13(3): 328. 2014. *Anathallis dimidia* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 248. 2001. *Pleurothallis dimidia* Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 76: 109–110. 1999. *Specklinia dimidia* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 260. 2004.
ILLUSTRATION: Luer 1999a, f. 11 (p. 128).
DISTRIBUTION: BOL COL PER VEN.
TYPE: Bolivia, Luer *et al.* 16497 (holotype, MO).
VOUCHER: Colombia, Foster *et al.* 1332 (AMES).
- Stelis diprizo*** Luer, *Harvard Pap. Bot.* 22(2): 89. 2017.
ILLUSTRATION: Luer 2017b, f. 15.
DISTRIBUTION: *COL.
TYPE: Colombia, *Silverstone-Sopkin 2665* (holotype, MO; isotype, CUVC).
- Stelis discolor*** Rchb.f., *Bonplandia* (Hannover) 3: 240. 1855.
ILLUSTRATION: Luer 2009a, f. 363; Duque 2010, pl. 10 (1–3). Fig. 15K.
DISTRIBUTION: COL ECU PER.
TYPE: Ecuador, Jameson 691 (holotype, W; isotypes: AMES, BM, BR, G, K).
VOUCHER: Colombia, Lehmann *s.n.* (W).
- Stelis discors*** Luer & Hirtz, *Harvard Pap. Bot.* 22(2): 89. 2017.
ILLUSTRATION: Luer 2017b, f. 14.
DISTRIBUTION: *COL.
TYPE: Colombia, Luer *et al.* 4563 (holotype, SEL).
- Stelis dissidens*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(2): 89. 2017.
ILLUSTRATION: Luer 2017b, f. 16; Misas Urreta 2005, p. 692.
DISTRIBUTION: *COL.
TYPE: Colombia, Luer 17584 (holotype, MO).
- Stelis dithele*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(1): 36. 2017.
ILLUSTRATION: Luer 2017a, f. 15.
DISTRIBUTION: *COL.
TYPE: Colombia, Luer *et al.* 7464 (holotype, SEL).
- Stelis divaricans*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 199. 2016.
ILLUSTRATION: Luer 2016b, f. 12.
DISTRIBUTION: *COL.
TYPE: Colombia, Luer *et al.* 3161 (holotype, SEL).
- Stelis divergens*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(1): 36. 2017.
ILLUSTRATION: Luer 2017a, f. 16; Misas Urreta 2005, p. 696.
DISTRIBUTION: *COL.
TYPE: Colombia, *de Wilde 4500* (holotype, SEL).
- Stelis dolichopus*** Schltr., *Orchis* 6: 63. 1912.
DISTRIBUTION: *COL.
TYPE: Colombia, unknown (holotype, B, destroyed).
Note: An obscure taxon for which no original material seems to be available.
- Stelis dressleri*** Luer, *Phytologia* 49(3): 227–228. 1981.
ILLUSTRATION: Luer 2018a, f. 13.
DISTRIBUTION: COL COS PAN.
TYPE: Panama, Luer & Dressler 1146 (holotype, SEL).
VOUCHER: Colombia, Duque 1835 (holotype, JAUM).
- Stelis dupliciformis*** C.Schweinf., *Bot. Mus. Leafl.* 15: 15, t. 8. 1951.
DISTRIBUTION: COL PER.
TYPE: Peru, Vargas 3816 (holotype, AMES-65251).
VOUCHER: Colombia, Rodriguez 269 (FMB).
- Stelis duquei*** P.Ortiz, *Orquideología* 28: 15. 2011. *Stelis globosa* O.Duque, *Orquideología* 27(2): 124,

127. 2010, *nom. illeg.* Non *Stelis globosa* Pridgeon & M.W.Chase [2002].
ILLUSTRATION: Duque 2010b, f. 14, ph. 39–40.
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 2150* (holotype, JAUM).
- Stelis dunstervilleorum*** Foldats, Acta Bot. Venez. 3: 404. 1968.
ILLUSTRATION: Foldats 1968, f. 32; Romero-González & Carnevalli 2000, p. 1016.
DISTRIBUTION: COL VEN.
TYPE: Venezuela, *Steyrmark & Dunsterville 98529* (holotype, VEN).
VOUCHER: An illustration voucher of a Colombian specimen reproduced in Ortiz & Uribe 2007 (CD Edition).
- Stelis ecmeles*** Luer, Harvard Pap. Bot. 23(1): 26. 2018.
ILLUSTRATION: Luer 2018a, f. 14.
DISTRIBUTION: *COL.
TYPE: Colombia, *Silverstone-Sopkin 4310* (holotype, MO; isotype, CUVC).
- Stelis efsiella*** Luer, Selbyana 30(1): 21–22. 2009.
ILLUSTRATION: Luer 2009b, f. 41.
DISTRIBUTION: *COL.
TYPE: Colombia, *Lehmann 3300* (holotype, K).
- Stelis ejuncida*** Luer & R.Escobar, Harvard Pap. Bot. 22(1): 37. 2017.
ILLUSTRATION: Luer 2017a, f. 18. Fig. 14G.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 10111* (holotype, SEL).
- Stelis elementaria*** Luer & R.Escobar, Harvard Pap. Bot. 22(2): 91. 2017.
ILLUSTRATION: Luer 2017b, f. 17.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 7699* (holotype, SEL).
- Stelis elegantissima*** J.M.Murillo, Rom.Cec. & Karremans, Phytotaxa 496(2): 137. 2021. *Stelis crascens* Luer & R.Escobar, Harvard Pap. Bot. 21(1): 65. 2016, *nom. illeg.* Non *Stelis crascens* Luer & Hirtz [2013].
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 11373* (holotype, MO).
- Stelis ellipsophylla*** Luer & R.Escobar, Harvard Pap. Bot. 22(1): 37. 2017.
ILLUSTRATION: Luer 2017a, f. 19.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 17689* (holotype, MO).
- Stelis elongata*** Kunth, Nov. Gen. Sp. (quarto ed.) 1: 363. 1816.
ILLUSTRATION: Luer 2009a, f. 315, f. 315a; Luer 2018b, f. 40; Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: BOL COL ECU PER VEN.
TYPE: Colombia, *Humboldt & Bonpland s.n.* (holotype, P; photo, AMES).
- Stelis emarginata*** (Ruiz & Pav.) Soto Arenas & Solano, Icon. Orchid. (Mexico) 5–6: t. 681. 2002 [2003]. *Epidendrum emarginatum* Ruiz & Pav., Syst. Veg. Fl. Peruv. Chil. 247. 1798. *Humboldtia emarginata* Pav. ex Lindl., Gen. Sp. Orchid. Pl. 6. 1830. *Physoisiphon emarginatus* (Ruiz & Pav.) Lindl., Edwards's Bot. Reg. 21: sub t. 1797. 1835. *Pleurothallis emarginata* (Ruiz & Pav.) Lindl., Gen. Sp. Orchid. Pl. 6. 1830.
ILLUSTRATION: Luer 2007, f. 3 (p. 104).
DISTRIBUTION: COL GUA MEX PER.
TYPE: Peru, *Pavon 595* (holotype, W; isotypes, K-L; BM-000082027).
VOUCHER: Colombia, *Lehmann 4108* (G).
- Stelis embreei*** Luer & Hirtz, Monogr. Syst. Bot. Missouri Bot. Gard. 88: 14–15. 2002.
ILLUSTRATION: Luer 2002a, f. 15; Rincón-González *et al.* 2020a, f. 5.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 11949* (holotype, MO).
VOUCHER: Colombia, *Rincón et al. 1277* (TOLI).
- Stelis enormis*** Luer & R.Escobar, Harvard Pap. Bot. 22(1): 37. 2017.
ILLUSTRATION: Luer 2017a, f. 20.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 17563* (holotype, MO).
- Stelis erecta*** O.Duque, Orquideología 20(3): 341–342. 1997.
ILLUSTRATION: Duque 1997, f. 3 (p. 345), ph. 1–3 (pl. III); Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 1677* (holotype, JAUM).
- Stelis erucosa*** (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16(4): 262. 2001. *Effusiella erucosa* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 112: 106. 2007. *Pleurothallis erucosa* Luer & R.Escobar, Orquideología 21(1): 88. 1998. *Specklinia erucosa* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 260. 2004.
ILLUSTRATION: Luer & Escobar 1998, p. 89; Luer 2000a, f. 12 (p. 92).

- DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 2341* (holotype, SEL).
- Stelis escobarii*** Luer, Harvard Pap. Bot. 22(2): 112. 2017. *Stelis rodrigoii* Luer, Harvard Pap. Bot. 21(1): 85. 2016, *nom. illeg.* Non *Stelis rogrigoii* (Luer) Pridgeon & M.W.Chase [2001].
 ILLUSTRATION: Luer 2016a, f. 44. Fig. 14A.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 5141* (holotype, MO).
- Stelis eublepharis*** Rchb.f., Bonplandia (Hannover) 3: 240. 1855.
 ILLUSTRATION: Luer 2009a, f. 368, f. 368a; Luer 2018c, f. 11, f. 12; Ortiz & Uribe 2007 (CD Edition); Romero-González & Carnevalli 2000, p. 1017. Fig. 14L.
 DISTRIBUTION: BOL COL ECU PER VEN.
 TYPE: Ecuador, *Jameson 264* (holotype, K; isotypes, AMES, BR, G, LE, W).
 VOUCHER: Colombia, *Duque 1712* (JAUM, MO).
- Stelis eugenii*** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 87. 1920.
 ILLUSTRATION: Mansfeld 1929, Pl. 29 (No. 110); Ortiz & Uribe 2007 (CD Edition).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Langlassé 104* [holotype, B, destroyed; lectotype (selected here), P-00489279; isolectotypes, AMES-00104751, G-00169085, G-00169128, GH-00104750, MPU-018358, P-00489280, US-00093559].
- Stelis euglossina*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 68. 2016.
 ILLUSTRATION: Luer 2016a, f. 15.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 10191* (holotype, MO).
- Stelis euprepes*** Luer & R.Escobar, Harvard Pap. Bot. 22(1): 41. 2017.
 ILLUSTRATION: Luer 2017a, f. 24.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer & Escobar 8378* (holotype, SEL).
- Stelis euspatha*** Rchb.f., Bonplandia (Hannover) 3: 225. 1855.
 ILLUSTRATION: Luer 2009a, f. 392; Luer 2018b, f. 42.
 DISTRIBUTION: BOL COL ECU PER.
 TYPE: Bolivia, *Bridges s.n.* (holotype, W).
 VOUCHER: Colombia, *Jameson s.n.* (K).
- Stelis euthema*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 68. 2016.
 ILLUSTRATION: Luer 2016a, f. 16.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 9041* (holotype, SEL).
- Stelis exaltata*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 68. 2016.
 ILLUSTRATION: Luer 2016a, f. 17.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 16791* (holotype, MO).
- Stelis excentrica*** Reina-Rodr. & López-Mach., Lankesteriana 20(2): 152. 2020.
 ILLUSTRATION: Reina-Rodríguez et al. 2020, f. 1–3.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Reina-Rodríguez et al. 2957* (holotype, CUVC-spirit; isotype, COL).
- Stelis expansa*** (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16(4): 262. 2001. *Crococodilanthe expansa* (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 256. 2004. *Humboldtia expansa* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis expansa* Lindl., Fol. Orchid. ~Pleurothallis~ 4. 1859.
 ILLUSTRATION: Luer 1998a, f. 19; Luer 1975f, f. 56.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Jameson s.n.* (holotype, K).
 VOUCHER: Colombia, *Jameson 308* (G).
- Stelis famelica*** Luer & R.Escobar, Harvard Pap. Bot. 22(1): 41. 2017.
 ILLUSTRATION: Luer 2017a, f. 25. Fig. 15B.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 8768* (holotype, SEL).
- Stelis fascinata*** Luer & R.Escobar, Harvard Pap. Bot. 22(1): 42. 2017.
 ILLUSTRATION: Luer 2017a, f. 26.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 3160* (holotype, SEL).
- Stelis fecunda*** Luer & R.Escobar, Harvard Pap. Bot. 22(2): 91. 2017.
 ILLUSTRATION: Luer 2017b, f. 18.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 9053* (holotype, SEL).
- Stelis felix*** Luer & R.Escobar, Harvard Pap. Bot. 23(1): 28. 2018.
 ILLUSTRATION: Luer 2018a, f. 15.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 5014* (holotype, MO).

- Stelis fendleri*** Lindl., Fol. Orchid. ~Stelis~ 3. 1852–1855 [1859].
ILLUSTRATION: Ortiz & Uribe 2007 (CD Edition); Romero-González & Carnevalli 2000, p. 1018.
DISTRIBUTION: COL VEN.
TYPE: Venezuela, *Fendler 1470* (holotype, K-000573867; isotypes, AMES-00104755, BR-0000006593766, G-00169082, G-00169083, GH-00104754, MO-1889091, PH-00027781, P-00489281).
VOUCHER: Colombia, *Duque 1720* (JAUM, MO).
- Stelis fissurosa*** Luer & R.Escobar, Harvard Pap. Bot. 22(1): 42. 2017.
ILLUSTRATION: Luer 2017a, f. 27.
DISTRIBUTION: *COL.
TYPE: Colombia, *de Wilde 058* (holotype, SEL).
- Stelis flacca*** Rchb.f., Bonplandia (Hannover) 3: 240. 1855.
ILLUSTRATION: Luer 2009a, f. 316; Luer 2018c, f. 13–16.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Jameson 735* (holotype, K; isotypes, BM, BR, G, LE, W).
VOUCHER: Colombia, *Luer et al. 8803* (SEL).
- Stelis flagellifera*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 70. 2016.
ILLUSTRATION: Luer 2016a, f. 18.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 3719* (holotype, SEL).
- Stelis flexuella*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 70. 2016.
ILLUSTRATION: Luer 2016a, f. 19.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 4514* (holotype, SEL).
- Stelis floresii*** Luer & Hirtz, Monogr. Syst. Bot. Missouri Bot. Gard. 88: 47. 2002.
ILLUSTRATION: Luer 2002a, f. 58, f. 66.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 11139* (holotype, MO).
VOUCHER: Colombia, *Salgado-Negret 60286* (COL).
- Stelis floripendens*** O.Duque, Orquideología 27(2): 119–120. 2010.
ILLUSTRATION: Duque 2010b, f. 12, ph. 31–34.
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 2165* (holotype, JAUM).
- Stelis fluxiflorum*** Luer & R.Escobar, Harvard Pap. Bot. 22(1): 42. 2017.
ILLUSTRATION: Luer 2017a, f. 28.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 8876* (holotype, SEL).
- Stelis foetida*** O.Duque, Orquideología 20(3): 342–343. 1997.
ILLUSTRATION: Duque 1997, f. 4 (p. 345), ph. 4–6 (pl. III); Luer 2002a, f. 97; Luer 2018a, f. 16; Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 1760* (holotype, JAUM).
- Stelis fons-florum*** (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16(4): 263. 2001. *Crocodeilanthe fons-florum* (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 256. 2004. *Humboldtia fons-florum* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis fons-florum* Lindl., Fol. Orchid. ~Pleurothallis~ 5, no. 15. 1859.
ILLUSTRATION: Luer 1998a, f. 21.
DISTRIBUTION: COL ECU PER.
TYPE: Ecuador, *Jameson s.n.* (holotype, K).
VOUCHER: Colombia, *Callejas 11330* (HUA).
- Stelis formicifera*** Karremans, Phytotaxa 496(2): 137. 2021. *Crocodeilanthe rectangularis* Kolan. & Szlach., Phytotaxa 496(2): 131–132. 2020. Non *Stelis rectangularis* Luer & R.Escobar [2016].
ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 31.
DISTRIBUTION: *COL.
TYPE: Colombia, *Garcia-Barriga 18767* (holotype, AMES-112711; drawing, UGDA).
- Stelis fornix*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 70. 2016.
ILLUSTRATION: Luer 2016a, f. 20.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 16802* (holotype, MO).
- Stelis fosteri*** (Kolan. & Szlach.) Karremans, Phytotaxa 496(2): 137. 2021. *Crocodeilanthe fosteri* Kolan. & Szlach., Phytotaxa 496(2): 117–118. 2020.
ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 15.
DISTRIBUTION: *COL.
TYPE: Colombia, *Foster 2055* (holotype, AMES-116327; drawing, UGDA).
- Stelis franciscana*** O.Duque, Orquideología 20(3): 343, 346–347. 1997.
ILLUSTRATION: Duque 1997, f. 1 (p. 350), ph. 7–9

- (pl. III); Ortiz & Uribe 2007 (CD Edition).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Duque 1890* (holotype, JAUM).
- Stelis fredoniensis*** O.Duque, *Orquideología* 27(2): 120, 123. 2010.
 ILLUSTRATION: Duque 2010b, f. 13, ph. 35–38.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Duque 2281* (holotype, JAUM).
- Stelis frondifera*** Luer & R.Escobar, *Harvard Pap. Bot.* 23(1): 45. 2018. *Stelis frondifera* Luer & R.Escobar, *Harvard Pap. Bot.* 22(1): 44. 2017, *nom. inval.*
 ILLUSTRATION: Luer 2017a, f. 29, 30.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 10051* (holotype, SEL).
- Stelis frontinoënsis*** O.Duque, *Orquideología* 20(3): 347–348. 1997.
 ILLUSTRATION: Duque 1997, f. 3 (p. 350), ph. 1–3 (pl. IV); Luer 2004, f. 127 (p. 139); Ortiz & Uribe 2007 (CD Edition).
 DISTRIBUTION: COL ECU.
 TYPE: Colombia, *Duque 1891* (holotype, JAUM).
- Stelis furfuracea*** F.Lehm. & Kraenzl., *Bot. Jahrb. Syst.* 26: 447. 1898.
 ILLUSTRATION: Luer 2018a, f. 17; Ortiz & Uribe 2007 (CD Edition).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Lehmann 6253* [holotype, B; lectotype, K (Luer 2018a); isolectotype, LE].
- Stelis fusilifera*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(2): 92. 2017.
 ILLUSTRATION: Luer 2017b, f. 19.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 3139* (holotype, SEL).
- Stelis fusisepala*** (Kolan. & Szlach.) Karremans, *Phytotaxa* 496(2): 137. 2021. *Crocodeilanthus fusisepala* Kolan. & Szlach., *Phyton. Annales Rei Botanicae* 60: 118–119. 2020.
 ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 16.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Garay et al. 533* (holotype, AMES; drawing, UGDA).
- Stelis galapagosensis*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(1): 72. 2016.
 ILLUSTRATION: Luer 2016a, f. 21.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 16816* (holotype, MO).
- Stelis galeata*** (Lindl.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 263. 2001. *Crocodeilanthus galeata* (Lindl.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 256. 2004. *Humboldtia galeata* (Lindl.) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891. *Pleurothallis galeata* Lindl., *Ann. Mag. Nat. Hist.* 15: 107. 1845.
 ILLUSTRATION: Luer 1998a, f. 22, f. 23, f. 24.
 DISTRIBUTION: COL ECU PER VEN.
 TYPE: Ecuador, *Hartweg 1408* (holotype, K-L-000674237; isotypes: G-00168953, K-000584205, K-000584206, LD-1221064, W-R-0053660; sketch, K-000584207).
 VOUCHER: Colombia, *Sander s.n.* (K, AMES).
- Stelis galerasensis*** (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 263. 2001. *Crocodeilanthus galerasensis* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 256. 2004. *Pleurothallis galerasensis* Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 65: 28, f. 26. 1998.
 ILLUSTRATION: Luer 1998a, f. 25.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer & Luer 3749* (holotype, SEL).
- Stelis garciabarrigae*** (Kolan. & Szlach.) Karremans, *Phytotaxa* 496(2): 137. 2021. *Crocodeilanthus garciabarrigae* Kolan. & Szlach., *Phyton. Annales Rei Botanicae* 60: 120–121. 2020.
 ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 18.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Garcia-Barriga 20214* (holotype, AMES; drawing, UGDA).
- Stelis gargantua*** Pridgeon & M.W.Chase, *Lindleyana* 17(2): 99. 2002. *Crocodeilanthus gigas* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 256. 2004. *Pleurothallis gigas* Luer & R.Escobar, *Orquideología* 20(1): 52. 1996. *Stelis gigas* (Luer & R.Escobar) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 263. 2001, *nom. illeg.* Non *Stelis gigas* Barb.Rodr. [1881].
 ILLUSTRATION: Luer & Escobar 1996, p. 55, p. 57 (below, right); Luer 1998a, f. 26. Fig. 14B.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 14152* (holotype, MO).
- Stelis gelida*** (Lindl.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 263. 2001. *Crocodeilanthus gelida*

- (Lindl.) Carnevali & I. Ramirez, *Smithsonian Contr. Bot.* 100: 133. 2014. *Humboldtia gelida* (Lindl.) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891. *Niphantha gelida* (Lindl.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 112: 107. 2007, *nom. inval.* *Niphantha gelida* (Lindl.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 120: 154. 2010. *Pleurothallis gelida* Lindl., *Edwards's Bot. Reg.* 27: Misc. 91. 1841. *Specklinia gelida* (Lindl.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 260. 2004.
ILLUSTRATION: Cogniaux 1896, f. 3 (p. 112); Luer 2000a, f. 17, f. 18 (p. 94); Stenzel 2004, f. 15.
DISTRIBUTION: BEL BOL BRA COL COS CUB DOM ECU ELS HAI HON JAM MEX NIC PAN PER PUE USA.
TYPE: Jamaica, *Loddiges s.n.* (holotype, K).
VOUCHER: Colombia, *Viveros 75a* (HUQ).
- Stelis gemma*** Garay, *Orquideología* 4(2): 77. 1969.
ILLUSTRATION: Garay 1969, p. 78, p. 82 (top right); Luer 2009a, f. 372; Ortiz & Uribe 2007 (CD Edition). Fig. 15F.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Andre 506* (holotype, K).
VOUCHER: Colombia, *Escobar 338* (AMES).
- Stelis genychila*** Garay, *Canad. J. Bot.* 34: 354. 1956.
ILLUSTRATION: Luer 2009a, f. 344. Fig. 14F.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *von Sneidern 1095* (holotype, S).
- Stelis gerontica*** Luer & R. Escobar, *Harvard Pap. Bot.* 22(2): 92. 2017.
ILLUSTRATION: Luer 2017b, f. 20.
DISTRIBUTION: *COL.
TYPE: Colombia, *Escobar 5022* (holotype, SEL).
- Stelis gigapetala*** Luer & R. Escobar, *Harvard Pap. Bot.* 22(2): 92. 2017.
ILLUSTRATION: Luer 2017b, f. 21.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 8828* (holotype, SEL).
- Stelis giraffina*** Luer & R. Escobar, *Harvard Pap. Bot.* 21(1): 72. 2016.
ILLUSTRATION: Luer 2016a, f. 22.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 17581* (holotype, MO).
- Stelis gladiata*** Lindl., *Fol. Orchid.* ~*Stelis*~ 9, no. 61. 1852–1855 [1859].
ILLUSTRATION: Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: COL ECU.
- TYPE: Ecuador, *Jameson 99* (holotype, K-000573917).
VOUCHER: Colombia, *Mutis 1743* (MA).
- Stelis globiflora*** Rchb.f., *Otia Bot. Hamburg.* 1: 19, no. 74. 1878.
ILLUSTRATION: Luer 2009a, f. 318; Ortiz & Medina 2012, f. 15.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Lehmann s.n.* (holotype, W).
VOUCHER: A photographic voucher of a Colombian specimen reproduced in Ortiz & Medina (2012).
- Stelis globosa*** Pridgeon & M.W. Chase, *Lindleyana* 17(2): 99. 2002. *Crocodeilanthe popayanensis* (F. Lehm. & Kraenzl.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 256. 2004. *Pleurothallis popayanensis* F. Lehm. & Kraenzl., *Bot. Jahrb. Syst.* 26: 438. 1898. *Stelis popayanensis* (F. Lehm. & Kraenzl.) Pridgeon & M.W. Chase, *Lindleyana* 16(4): 265. 2001, *nom. illeg.* Non *Stelis popayanensis* F. Lehm. & Kraenzl. [1899].
ILLUSTRATION: Luer 1998a, f. 49.
DISTRIBUTION: *COL.
TYPE: Colombia, *Lehmann 4514* (holotype, K).
- Stelis glochochila*** Luer & R. Escobar, *Harvard Pap. Bot.* 21(2): 199. 2016.
ILLUSTRATION: Luer 2016b, f. 13, f. 14.
DISTRIBUTION: *COL.
TYPE: Colombia, Luer *et al.* 8962 (holotype, SEL).
- Stelis glomifera*** Luer & R. Escobar, *Harvard Pap. Bot.* 22(1): 44. 2017.
ILLUSTRATION: Luer 2017a, f. 31, 32.
DISTRIBUTION: *COL.
TYPE: Colombia, Luer *et al.* 8977 (holotype, SEL).
- Stelis gloriae*** O. Duque, *Orquideología* 27(2): 127–128. 2010.
ILLUSTRATION: Duque 2010b, f. 15, ph. 41–43.
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 2483* (holotype, JAUM).
- Stelis glossula*** Rchb.f., *Gard. Chron.* 1870(42): 1373. 1870. *Apatostelis glossula* (Rchb.f.) Garay, *Bot. Mus. Leaflet.* 27(7–9): 188. 1979.
ILLUSTRATION: Luer 2009a, f. 320; Misas Urreta 2005, p. 684; Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: COL COS ECU ELS HON NIC PAN.
TYPE: Costa Rica, *Veitch s.n.* (holotype, W-R-00202661).
VOUCHER: Colombia, *Misas Urreta 132* (HPUJ).

- Stelis gongylophora*** Luer & R.Escobar, Harvard Pap. Bot. 22(1): 46. 2017.
ILLUSTRATION: Luer 2017a, f. 33.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 13071* (holotype, SEL).
- Stelis gracilis*** Ames, Orchidaceae 2: 266. 1908.
DISTRIBUTION: BEL COL COS GUA HON MEX NIC PAN.
TYPE: Guatemala, *von Tuerkheim 7681* (holotype, AMES).
VOUCHER: Colombia, *Alzate 569* (FAUC).
- Stelis graminea*** Lindl., Fol. Orchid. ~*Stelis*~ 11, no. 77. 1852–1855 [1859].
ILLUSTRATION: Luer 2018a, f. 19.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Jameson s.n.* (holotype, K).
VOUCHER: Colombia, *Luer et al. 13174* (MO).
- Stelis grandiflora*** Lindl., Companion Bot. Mag. 2: 353. 1836.
ILLUSTRATION: Cogniaux 1896, t. 78 (IV); Luer 2009a, f. 394, f. 419, f. 419a; Luer 2018b, f. 54, f. 55; Luer 2018c, f. 17–20; Romero-González & Carnevalli 2000, p. 1009, p. 1034, p. 1057; Ossenbach & Jenny 2017, f. 18.
DISTRIBUTION: BOL BRA COL ECU GUY L.A. PER SUR VEN.
TYPE: Brazil, *Descourtilz s.n.* [holotype, Descourtilz's pl. 14, unpublished manuscript (reproduced in Ossenbach & Jenny 2017, f. 18)].
VOUCHER: Colombia, *Duque 883* (JAUM).
- Stelis gravida*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 73. 2016.
ILLUSTRATION: Luer 2016a, f. 23, f. 24.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 10079* (holotype, MO).
- Stelis guianensis*** Rolfe, Trans. Linn. Soc. London, Bot. 6: 59. 1901.
ILLUSTRATION: Luer 2009a, f. 40, f. 41a (p. 211); Luer 2018b, f. 56; Romero-González & Carnevalli 2000, p. 1022.
DISTRIBUTION: BOL COL ECU FRE GUY VEN.
TYPE: Venezuela, *McCormell & Quelch 703* (holotype, K).
VOUCHER: An illustration voucher of a Colombian specimen reproduced in Ortiz & Uribe 2007 (CD Edition).
- Stelis gustavoromeri*** (Kolan. & Szlach.) Karremans, Phytotaxa 496(2): 137. 2021. *Crocodelanthe gustavoromeri* Kolan. & Szlach., Phytotaxa. Annales Rei Botanicae 60: 121–122. 2020.
ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 19.
DISTRIBUTION: *COL.
TYPE: Colombia, *Garcia-Barriga & Jaramillo 19842* (holotype, AMES-109279; drawing, UGDA).
- Stelis hallii*** Lindl., J. Bot. (Hooker) 1: 12. 1834.
ILLUSTRATION: Luer 2007, f. 291; Luer 2009a, f. 291a, f. 291b (p. 212).
DISTRIBUTION: COL ECU PER.
TYPE: Colombia, *Lehmann s.n.* (holotype, W).
- Stelis hansenacea*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 73. 2016.
ILLUSTRATION: Luer 2016a, f. 25.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 16796* (holotype, MO).
- Stelis hennisiana*** Schltr., Orchis 6: 64. 1912.
DISTRIBUTION: *COL.
TYPE: Colombia, *Hennis s.n.* (holotype, B, destroyed).
Note: An obscure taxon for which no original material seems to be available.
- Stelis hercules*** Luer & R.Escobar, Harvard Pap. Bot. 21(2): 199. 2016.
ILLUSTRATION: Luer 2016b, f. 15.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer & Escobar 8360* (holotype, SEL).
- Stelis heteroarcuata*** J.M.H.Shaw, Orchid Rev. 122(1308): 77. 2014. *Stelis arcuata* O.Duque, Orquideología 27(1): 12. 2010, *nom. illeg.* Non *Stelis arcuata* (Lindl.) Pridgeon & M.W.Chase [2001].
ILLUSTRATION: Duque 2010a, f. 4, ph. 9–11.
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 2450* (holotype, JAUM).
- Stelis hiatilabia*** Luer & R.Escobar, Harvard Pap. Bot. 21(2): 201. 2016.
ILLUSTRATION: Luer 2016b, f. 16.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 7501* (holotype, SEL).
- Stelis hippocrepica*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 73. 2016.
ILLUSTRATION: Luer 2016a, f. 26.

- DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 11327* (holotype, MO).
- Stelis hirsuta*** Garay, Bot. Mus. Leaflet 27(7–9): 184. 1979. *Stelis jamesonii* var. *parviflora* Garay, Canad. J. Bot. 34: 352. 1956.
 ILLUSTRATION: Luer 2018a, f. 20.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Grant & Fosburg 9362* (holotype, AMES; isotypes, COL, US, WS).
- Stelis hoppii*** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 29. 1924.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Hopp 123* (holotype, B, destroyed).
 Note: An obscure taxon for which no original material seems to be available.
- Stelis huilensis*** O.Duque, Orquideología 27(2): 128, 131. 2010.
 ILLUSTRATION: Duque 2010b, f. 16, ph. 44–45.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Duque 2160* (holotype, JAUM).
- Stelis humidensis*** Luer & R.Escobar, Harvard Pap. Bot. 22(1): 46. 2017.
 ILLUSTRATION: Luer 2017a, f. 34. Fig. 15L.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 17575* (holotype, SEL).
- Stelis hyacinthalis*** Luer & R.Escobar, Harvard Pap. Bot. 22(2): 94. 2017.
 ILLUSTRATION: Luer 2017b, f. 22.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 7509* (holotype, SEL).
- Stelis hylophila*** Rchb.f., Bonplandia (Hannover) 3: 241. 1855. *Apatostelis hylophila* (Rchb.f.) Garay, Bot. Mus. Leaflet 27: 189. 1979.
 ILLUSTRATION: Luer 2009a, f. 376; Luer 2018b, f. 59, f. 60; Ortiz & Uribe 2007 (CD Edition); Romero-González & Carnevalli 2000, p. 1024.
 DISTRIBUTION: BOL COL ECU PER VEN.
 TYPE: Ecuador, *Jameson 687* (holotype, W; isotypes, BR, G, K, LE).
 VOUCHER: Colombia, *Duque 1715* (JAUM, MO).
- Stelis hymenantha*** Schltr., Repert. Spec. Nov. Regni Veg. 10(251–253): 291. 1912.
 ILLUSTRATION: Luer 2009a, f. 377.
 DISTRIBUTION: BRA COL COS ECU GUA HON MEX NIC PAN.
 TYPE: Guatemala, *von Türckheim II-1968* [holotype, B, destroyed; lectotype, AMES-55238, photo and illustr. of the type (Luer 2009a); lectotype, AMES-33369, isotype (Luer 2023)].
 VOUCHER: Colombia, *Viveros 805* (HUQ).
 Note: An isotype and original illustration at AMES have both been selected as lectotypes.
- Stelis hypsela*** Luer, Harvard Pap. Bot. 22(2): 94. 2017.
 ILLUSTRATION: Luer 2017b, f. 23; Misas Urreta 2005, p. 708.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Silverstone-Sopkin 4357* (holotype, MO; isotype, CUVC).
- Stelis hypsitera*** Luer & R.Escobar, Harvard Pap. Bot. 21(2): 201. 2016.
 ILLUSTRATION: Luer 2016b, f. 17.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 17571* (holotype, MO).
- Stelis immersa*** (Linden & Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16(4): 263. 2001. *Effusiella immersa* (Linden & Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 112: 106. 2007. *Humboldtia immersa* (Linden & Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis immersa* Linden & Rchb.f., Bonplandia (Hannover) 3: 224. 1855. *Specklinia immersa* (Linden & Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 261. 2004.
 ILLUSTRATION: Barringer 1986, f. 12; Luer 2000a, f. 20 (p. 94).
 DISTRIBUTION: COL COS GUA HON MEX NIC PAN VEN.
 TYPE: Colombia, *Linden s.n.* [lectotype (selected here), K-L-000079814; type sketch, W-R-0053656].
 Note: Luer annotated the sheet W-R-0053656 as holotype. This sheet consists of an illustration, a rudimentary sketch with two floral segments glued on, and a loose inflorescence apex. The illustration was prepared long after the original description, and it is unclear if the inflorescence and floral segments were added later too. The sketch seems original. Nevertheless, this cannot be the holotype as Reichenbach clearly must have had actual plant material at hand given that the isotype, bearing his writing, at K-L includes a leaf and two full inflorescences with a flower each.
- Stelis imperiosa*** Luer & R.Escobar, Harvard Pap. Bot. 23(1): 45. 2018. *Stelis imperialis* Luer &

- R.Escobar, Harvard Pap. Bot. 22(1): 46. 2017.
nom. inval.
ILLUSTRATION: Luer 2017a, f. 35, 36.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer & Escobar 8380* (holotype, SEL).
- Stelis imraei*** (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16(4): 263. 2001. *Specklinia imraei* (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 261. 2004. *Effusiella imraei* (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 112: 106. 2007. *Humboldtia imraei* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis imraei* Lindl., Fol. Orchid. ~Pleurothallis~ 9. 1859.
ILLUSTRATION: Luer 2000a, f. 21 (p. 95); Luer 1975b, f. 30.
DISTRIBUTION: BOL COL COS DOM ECU GUY L.A. PAN PER VEN.
TYPE: Dominica, *Imray 272* (K-L-000079856).
VOUCHER: Colombia, *Luer 17549* (MO).
- Stelis inamoena*** Luer & R.Escobar, Harvard Pap. Bot. 22(1): 48. 2017.
ILLUSTRATION: Luer 2017a, f. 37.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 6653* (holotype, SEL).
- Stelis incerta*** Karremans, Phytotaxa 496(2): 137. 2021. *Crocodelanthe undulata* Kolan. & Szlach., Phytotaxa 496(2): 139–140. 2021. *Non Stelis undulata* Luer & Hirtz [2002].
ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 40.
DISTRIBUTION: *COL.
TYPE: Colombia, Garcia-Barriga & Jaramillo 20692 (holotype, AMES-02084705; drawing, UGDA).
- Stelis inclinata*** O.Duque, Orquideología 20(3): 349–351. 1997.
ILLUSTRATION: Duque 1997, f. 4 (p. 350), ph. 6–8 (pl. IV); Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: *COL.
TYPE: Colombia, Duque 1914 (holotype, JAUM).
- Stelis index*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 76. 2016.
ILLUSTRATION: Luer 2016a, f. 27.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 16805* (holotype, MO).
- Stelis infundibulosa*** (Luer) Pridgeon & M.W.Chase, Lindleyana 16(4): 263. 2001. *Crocodelanthe infundibulosa* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 256. 2004. *Pleurothallis infundibulosa* Luer, Orquideología 20: 210. 1996.
ILLUSTRATION: Luer 1996f, 211; Luer 1998a, f. 27.
DISTRIBUTION: *COL.
TYPE: Colombia, *Fassett 25732* (holotype, US).
- Stelis intermedia*** Poepp. & Endl., Nov. Gen. Sp. Pl. 1: 46, t. 79. 1836.
ILLUSTRATION: Ortiz & Uribe 2007 (CD Edition); Romero-González & Carnevali 2000, p. 1025.
DISTRIBUTION: BRA COL GUY PER SUR VEN.
TYPE: Peru, *Poeppig 1579* [lectotype, W-0010637 (selected here); isolectotypes, W-0010636, W-0047804, W-0047805, W-0047806, LE-00001397, G-00169060, G-00169061, GOET-008692, AMES; type illustr. W-0076437].
VOUCHER: Colombia, *Rivera OAD 1956* (COL).
- Stelis ionantha*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 76. 2016.
ILLUSTRATION: Luer 2016a, f. 28.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 14159* (holotype, MO).
- Stelis ipialesensis*** Luer & Hirtz, Harvard Pap. Bot. 22(1): 50. 2017.
ILLUSTRATION: Luer 2017a, f. 39.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 2738* (holotype, SEL).
- Stelis jamesonii*** Lindl., J. Bot. (Hooker) 1: 11. 1834.
ILLUSTRATION: Luer 2009a, f. 378, f. 378a; Luer 2018c, f. 21; Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: COL ECU VEN.
TYPE: Ecuador, *Jameson s.n.* (holotype, K).
VOUCHER: Colombia, *Cuatrecasas 18794* (AMES, NY, US).
- Stelis jaramilloi*** (Kolan. & Szlach.) Karremans, Phytotaxa 496(2): 139. 2021. *Crocodelanthe jaramilloi* Kolan. & Szlach., Phytotaxa 496(2): 122. 2020.
ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 20.
DISTRIBUTION: *COL.
TYPE: Colombia, *Garcia-Barriga & Jaramillo 19831* (holotype, AMES; drawing, UGDA).
- Stelis jorgei*** Luer, Harvard Pap. Bot. 22(2): 94. 2017.
ILLUSTRATION: Luer 2017b, f. 24.
DISTRIBUTION: *COL.
TYPE: Colombia, *Giraldo-Gensini & Agredo 558* (holotype, MO; isotype, TULV).

- Stelis juridicciensis*** Luer & R.Escobar, Harvard Pap. Bot. 22(1): 50. 2017.
ILLUSTRATION: Luer 2017a, f. 40.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 6655* (holotype, SEL).
- Stelis juridixii*** (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16(4): 264. 2001. *Crocodelanthe juridixii* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 256. 2004. *Pleurothallis juridixii* Luer & R.Escobar, Orquideologia 20: 64. 1996.
ILLUSTRATION: Luer & Escobar 1996, p. 65; Luer 1998a, f. 29.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 10211* (holotype, MO).
- Stelis kefersteiniana*** (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 17(2): 99. 2002. *Humboldtia kefersteiniana* (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis kefersteiniana* Rchb.f., Bot. Zeitung (Berlin) 10: 673. 1852.
ILLUSTRATION: Luer 2000a, f. 13, f. 14, f. 15 (p. 93); Luer 1975b, f. 27.
DISTRIBUTION: BOL COL ECU PER VEN.
TYPE: Venezuela, *Wagner s.n.* [L560] (holotype, W-R-0025692).
VOUCHER: Colombia, *Hodge 6801* (AMES).
- Stelis killipii*** (Kolan. & Szlach.) Karremans, Phytotaxa 496(2): 139. 2021. *Crocodelanthe killipii* Kolan. & Szlach., Phytotaxa 496(2): 139. 2021. *Crocodelanthe killipii* Kolan. & Szlach., Phytotaxa 496(2): 139. 2021. *Crocodelanthe killipii* Kolan. & Szlach., Phytotaxa 496(2): 139. 2021. *Crocodelanthe killipii* Kolan. & Szlach., Phytotaxa 496(2): 139. 2021.
ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 21.
DISTRIBUTION: *COL.
TYPE: Colombia, *Killip & Smith 19430* (holotype, AMES-48055; drawing, UGDA).
- Stelis kunturmarkae*** Karremans, Phytotaxa 496(2): 139. 2021. *Crocodelanthe cundinamarcae* Kolan. & Szlach., Phytotaxa 496(2): 139. 2021. *Crocodelanthe cundinamarcae* Kolan. & Szlach., Phytotaxa 496(2): 139. 2021. *Crocodelanthe cundinamarcae* Kolan. & Szlach., Phytotaxa 496(2): 139. 2021.
ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 12.
DISTRIBUTION: *COL.
TYPE: Colombia, *Catreccasas 5712* (holotype, AMES-59093; drawing, UGDA).
- Stelis lacertina*** Luer & R.Escobar, Harvard Pap. Bot. 21(2): 203. 2016.
ILLUSTRATION: Luer 2016b, f. 18.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 16761* (holotype, MO).
- Stelis laevigata*** (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16(4): 264. 2001. *Crocodelanthe laevigata* (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 256. 2004. *Humboldtia laevigata* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis laevigata* Lindl., Ann. Mag. Nat. Hist. 15: 106. 1845.
ILLUSTRATION: Luer 1998a, f. 30, f. 31.
DISTRIBUTION: COL ECU PER.
TYPE: Colombia, *Hartweg 1406* (holotype, K-L; isotypes, AMES-00074378, AMES-00104094, BM-000074409, BR-0000008434876, BR-0000008434883, G, K-000674238, K-000584209, K-000584208, LE-00001417, LD-1212858, P-00485529, P00485528, W-R, W-R-0053653, W-R-0053632; type illustr., K-000584210).
- Stelis lagarantha*** Luer & R.Escobar, Harvard Pap. Bot. 21(2): 203. 2016.
ILLUSTRATION: Luer 2016b, f. 19.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 10146* (holotype, MO).
- Stelis lalinensis*** Luer & R.Escobar, Harvard Pap. Bot. 22(1): 50. 2017.
ILLUSTRATION: Luer 2017a, f. 41.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer & Escobar 8492* (holotype, SEL).
- Stelis lamellata*** Lindl., Companion Bot. Mag. 2: 353. 1836.
ILLUSTRATION: Luer 2009a, f. 380–380b.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Jameson s.n.* (holotype, K; isotype, W).
VOUCHER: Colombia, *Luer et al. 13844* (MO).
- Stelis lanceolata*** (Ruiz & Pav.) Willd., Sp. Pl. 4: 139. 1805. *Humboldtia lanceolata* Ruiz & Pav., Syst. Veg. Fl. Peruv. Chil. 237. 1798.
ILLUSTRATION: Luer 2009a, f. 383; Ortiz & Uribe 2007 (CD Edition); Romero-González & Carnevalli 2000, p. 1026. Fig. 14K.
DISTRIBUTION: COL ECU PER VEN.
TYPE: Peru, *Pavon s.n.* (holotype, MA).
VOUCHER: Colombia, *Serralde 81* (COL).
- Stelis lancifera*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 77. 2016.

ILLUSTRATION: Luer 2016a, f. 29.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer & Luer 3733* (holotype, SEL).

Stelis lancipetala (Kolan. & Szlach.) Karremans, *Phytotaxa* 496(2): 139. 2021. *Crocodeilanthe lancipetala* Kolan. & Szlach., *Phyton. Annales Rei Botanicae* 60: 123–124. 2020.

ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 22.

DISTRIBUTION: *COL.

TYPE: Colombia, *Vogel 075A* (holotype, AMES; drawing, UGDA).

Stelis langlassei Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 7: 89. 1920.

ILLUSTRATION: Luer 2009a, f. 323–323b; Ortiz & Uribe 2007 (CD Edition).

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Langlassé 101* [holotype, B, destroyed; lectotype (Luer 2009a), K; isolectotypes, AMES, G].

Stelis lankesteri Ames, *Sched. Orch.* 3: 4–5. 1923.

ILLUSTRATION: Ortiz & Uribe 2007 (CD Edition).

DISTRIBUTION: COL COS PAN.

TYPE: Costa Rica, *Lankester 365* (holotype, AMES-22847).

VOUCHER: Colombia, *Ortiz-Valdivieso 94* (HPUJ).

Stelis laplanadensis Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 203. 2016.

ILLUSTRATION: Luer 2016b, f. 20.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 12515* (holotype, MO).

Stelis lappacea Luer & Teague, *Harvard Pap. Bot.* 21(1): 77. 2016.

ILLUSTRATION: Luer 2016a, f. 30.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 13224* (holotype, MO).

Stelis latisejala C.Schweinf., *Bot. Mus. Leaf.* 19: 199. 1961.

ILLUSTRATION: Ortiz & Uribe 2007 (CD Edition); Romero-González & Carnevalli 2000, p. 1023.

DISTRIBUTION: COL VEN.

TYPE: Venezuela, *Steyermark 75712* (holotype, AMES-69505).

VOUCHER: An illustration voucher of a Colombian specimen reproduced in Ortiz & Uribe 2007 (CD Edition) and cited by Duque 2010.

Stelis lehmanneptis (Luer & R.Escobar) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 264. 2001. *Effusiella lehmanneptis* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 112: 106. 2007. *Pleurothallis lehmanneptis* Luer & R.Escobar, *Orquideología* 21: 100. 1998. *Specklinia lehmanneptis* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 261. 2004.

ILLUSTRATION: Luer & Escobar 1998, p. 101; Luer 2000a, f. 23 (p. 95).

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 18449* (holotype, MO).

Stelis lehmanniana (Schltr.) Karremans, *Phytotaxa* 203(3): 293. 2015. *Crocodeilanthe lehmanniana* (Schltr.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 256. 2004. *Pleurothallis endotrachys* F.Lehm. & Kraenzl., *Bot. Jahrb. Syst.* 26: 439. 1899, *nom. illeg.* *Pleurothallis lehmanniana* Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 7: 235. 1920. Non *Pleurothallis endotrachys* Rchb.f. [1876].

ILLUSTRATION: Luer 1998a, f. 34.

DISTRIBUTION: COL ECU.

TYPE: Colombia, *Lehmann 4510* (holotype, B, destroyed). Colombia, *Luer 12552* [neotype, MO (Luer 1998a)].

Stelis lehmannii Pridgeon & M.W.Chase, *Lindleyana* 17(2): 99. 2002. *Effusiella petiolaris* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 112: 107. 2007. *Pleurothallis petiolaris* Luer, *Orquideología* 20: 220. 1996. *Specklinia petiolaris* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 263. 2004. *Stelis petiolaris* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 265. 2001, *nom. illeg.* Non *Stelis petiolaris* Schltr. [1924].

ILLUSTRATION: Luer 1996f, 221; Luer 2000a, f. 30 (p. 97).

DISTRIBUTION: *COL.

TYPE: Colombia, *Lehmann 9099* (holotype, K).

Stelis lentiginosa Lindl., *Fol. Orchid.* ~Stelis~ 8, no. 58. 1852–1855 [1859].

ILLUSTRATION: Luer 2009a, f. 384; Luer 2018c, f. 22; Ortiz & Uribe 2007 (CD Edition); Romero-González & Carnevalli 2000, p. 1028. Fig. 15G.

DISTRIBUTION: COL ECU PER VEN.

TYPE: Ecuador, *Jameson s.n.* (holotype, K).

VOUCHER: Colombia, *Schneider Wc 126* (AMES).

- Stelis leprina*** Luer & R.Escobar, Harvard Pap. Bot. 21(2): 205. 2016.
ILLUSTRATION: Luer 2016b, f. 21.
DISTRIBUTION: *COL.
TYPE: Colombia, *de Wilde 005* (holotype, MO).
- Stelis leptorhiza*** Luer & R.Escobar, Harvard Pap. Bot. 21(2): 205. 2016.
ILLUSTRATION: Luer 2016b, f. 22.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 16919* (holotype, MO).
- Stelis lesliegarayi*** Karremans, Phytotaxa 496(2): 139. 2021. *Crocodelanthus garayi* Kolan. & Szlach., Phyt. Annales Rei Botanicae 60: 119–120. 2020. Non *Stelis garayi* (Dunst.) Carnevali & I. Ramírez [1990].
ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 17.
DISTRIBUTION: *COL.
TYPE: Colombia, *Garay et al. 467* (holotype, AMES; drawing, UGDA).
- Stelis liberalis*** Luer & J. Portilla, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 159, 186. 2004.
ILLUSTRATION: Luer 2004, f. 166 (p. 186); Luer 2018c, f. 23, f. 24. Fig. 15E.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer 19734* (holotype, MO).
VOUCHER: Colombia, *Luer 17589* (MO).
- Stelis ligulata*** (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16(4): 264. 2001. *Crocodelanthus ligulata* (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 256. 2004. *Humboldtia ligulata* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis ligulata* Lindl., Fol. Orchid. ~*Pleurothallis*~ 29. 1859.
ILLUSTRATION: Luer 1998a, f. 35, f. 36, f. 37. Fig. 15A.
DISTRIBUTION: BOL COL ECU.
TYPE: Ecuador, *Jameson s.n.* (holotype, K).
VOUCHER: Colombia, *Luer et al. 6658* (SEL).
- Stelis lijiae*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 77. 2016.
ILLUSTRATION: Luer 2016a, f. 31.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 17602* (holotype, MO).
- Stelis lindenii*** Lindl., Orchid. Linden. 3, no. 17. 1846.
ILLUSTRATION: Luer 2009b, f. 39; Luer 2018a, f. 21–23; Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: COL VEN.
TYPE: Venezuela, *Linden 679* (holotype, K).
- VOUCHER: Colombia, *Silverstone-Sopkin 8000* (CUVC, MO).
- Stelis londonnii*** O.Duque, Orquideología 20(3): 352–353. 1997.
ILLUSTRATION: Duque 1997, f. 1 (p. 363), ph. 1–3 (pl. V); Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 1424* (holotype, JAUM).
- Stelis longipetala*** O.Duque, Orquideología 20(3): 353–355. 1997.
ILLUSTRATION: Duque 1997, f. 2 (p. 363), ph. 4–6 (pl. V); Luer 2018a, f. 24; Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 1903* (holotype, JAUM).
- Stelis longiracemosa*** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 30. 1924.
DISTRIBUTION: *COL.
TYPE: Colombia, *Hopp 118* (holotype, B, destroyed).
Note: An obscure taxon for which no original material seems to be available.
- Stelis longirepens*** Carnevali & J.L.Tapia, Orchids Venez. (ed. 2) 1146. 2000.
ILLUSTRATION: Luer 2018c, f. 25; Romero-González & Carnevali 2000, p. 1029.
DISTRIBUTION: COL VEN.
TYPE: Venezuela, *Diaz 125* (holotype, VEN; isotype, PORT).
VOUCHER: Colombia, *Luer 17604* (MO).
- Stelis lopezii*** Luer, Selbyana 30(1): 22–23. 2009.
ILLUSTRATION: Luer 2009b, f. 43.
DISTRIBUTION: *COL.
TYPE: Colombia, *Lopez Figueiras 8391* (holotype, COL).
- Stelis loxensis*** Lindl., Pl. Hartw. 16: 3. 1953.
ILLUSTRATION: Luer 2009a, f. 386; Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Hartweg 38* (holotype, K).
VOUCHER: Colombia, *Duque 2427* (JAUM).
- Stelis luisii*** Luer, Harvard Pap. Bot. 22(2): 96. 2017.
ILLUSTRATION: Luer 2017b, f. 25.
DISTRIBUTION: *COL.
TYPE: Colombia, *Giraldo-Gensini & Agredo 425* (holotype, MO; isotype, TULV).
- Stelis lumbricosa*** O.Duque, Orquideología 20: 354. 1997.

- ILLUSTRATION: Duque 1997, p. 363, ph. 7–9 (pl. V); Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 585* (holotype, JAUM).
- Stelis lutea*** Lindl., *Fol. Orchid.* ~*Stelis*~ 7. 1852–1855 [1859].
ILLUSTRATION: Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: COL VEN.
TYPE: Venezuela, Fendler 1461 (holotype, K-000573907).
VOUCHER: An illustration voucher of a Colombian specimen reproduced in Ortiz & Uribe 2007 (CD Edition).
- Stelis lynniana*** Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 112: 5. 2007.
ILLUSTRATION: Luer 2007, f. 208; Luer 2018c, f. 26. Fig. 15C.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *O'Shaughnessy 02856* (holotype, MO).
VOUCHER: Colombia, *Luer 18439* (MO).
- Stelis macropoda*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 7: 89. 1920.
ILLUSTRATION: Luer 2018a, f. 25–26.
DISTRIBUTION: *COL.
TYPE: Colombia, *Lehmann 4519* [holotype, B, destroyed; lectotype (selected here), AMES-00287416; isolectotype, K-000573945].
- Stelis maderoi*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 7: 90. 1920.
ILLUSTRATION: Ortiz & Uribe 2007 (CD Edition); Romero-González & Carnevalli 2000, p. 1030.
DISTRIBUTION: COL VEN.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 30, No. 114)].
- Stelis magdalenae*** (Rchb.f.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 264. 2001. *Crocodelanthe magdalenae* (Rchb.f.) Toscano, *Harvard Pap. Bot.* 23(1): 54. 2018. *Humboldtia magdalenae* (Rchb.f.) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891. *Pleurothallis magdalenae* Rchb.f., *Bonplandia* (Hannover) 3: 72. 1855.
ILLUSTRATION: Luer 1999a, f. 3 (p. 94).
DISTRIBUTION: BOL COL ECU.
TYPE: Colombia, *Wagner s.n.* (holotype, W).
- Stelis magnesialis*** Luer & Hirtz, *Harvard Pap. Bot.* 22(1): 51. 2017.
ILLUSTRATION: Luer 2017a, f. 42.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 4520* (holotype, SEL).
- Stelis magnipetala*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 31. 1924. *Apatostelis magnipetala* (Schltr.) Garay, *Bot. Mus. Leafl.* 27: 189. 1979.
DISTRIBUTION: *COL.
TYPE: Colombia, *Hopp 47* (holotype, B, destroyed).
Note: An obscure taxon for which no original material seems to be available.
- Stelis major*** Rchb.f., *Bonplandia* (Hannover) 2: 23. 1854.
ILLUSTRATION: Luer 2018a, f. 27–28; Ortiz & Uribe 2007 (CD Edition); Romero-González & Carnevalli 2000, p. 1031.
DISTRIBUTION: COL VEN.
TYPE: Venezuela, *Wagner s.n.* (holotype, K).
VOUCHER: Colombia, *St. John 20879* (US, AMES).
- Stelis majuscula*** Luer, *Harvard Pap. Bot.* 22(1): 51. 2017.
ILLUSTRATION: Luer 2017a, f. 43.
DISTRIBUTION: *COL.
TYPE: Colombia, *Uribe 385* (holotype, AMWS).
- Stelis mantae*** (Kolan. & Szlach.) Karremans, *Phytotaxa* 496(2): 140. 2021. *Crocodelanthe mantae* Kolan. & Szlach., *Phyton. Annales Rei Botanicae* 60: 124–125. 2020.
ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 23.
DISTRIBUTION: *COL.
TYPE: Colombia, *Mora 3085* (holotype, AMES-106118; drawing, UGDA).
- Stelis marginata*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 205. 2016.
ILLUSTRATION: Luer 2016b, f. 23.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 8359* (holotype, SEL).
- Stelis maxima*** Lindl., *Ann. Mag. Nat. Hist.* 15(96): 106–107. 1845.
ILLUSTRATION: Luer 2009a, f. 324; Luer 2018c, f. 27; Ortiz & Uribe 2007 (CD Edition); Romero-González & Carnevalli 2000, p. 1032.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Hartweg 1407* (holotype, K; isotypes: G, LD, LE, W).
VOUCHER: Colombia, *Cuatrecasas 20912* (AMES).

- Stelis meerenbergensis*** Luer & R.Escobar, Harvard Pap. Bot. 22(2): 96. 2017.
ILLUSTRATION: Luer 2017b, f. 26.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 8485* (holotype, SEL).
- Stelis megaloglossa*** Luer, Phytologia 49(3): 231. 1981.
ILLUSTRATION: Luer 2007, f. 215; Luer 2018c, f. 28.
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Luer et al. 4528* (holotype, SEL).
- Stelis melanopus*** (F.Lehm. & Kraenzl.) Karremans, Lankesteriana 13(3): 329. 2014. *Pleurothallis melanopus* F.Lehm. & Kraenzl., Bot. Jaarb. 26: 443. 1899.
ILLUSTRATION: Luer 1999a, f. 30 (p. 133).
DISTRIBUTION: BOL COL.
TYPE: Unknown, *Lehmann s.n.* (holotype, ?).
VOUCHER: Colombia, *Lehmann 4515* (K, US).
- Stelis menippe*** Luer & R.Escobar, Harvard Pap. Bot. 21(2): 206. 2016.
ILLUSTRATION: Luer 2016b, f. 24.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 9025* (holotype, SEL).
- Stelis meridana*** (Rchb.f.) Karremans, Lankesteriana 13(3): 329. 2014. *Anathallis meridana* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16(4): 249. 2001. *Humboldtia meridana* (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Pleurothallis meridana* Rchb.f., Linnaea 22: 826. 1849. *Specklinia meridana* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 262. 2004.
ILLUSTRATION: Luer 1999a, f. 18 (p. 130).
DISTRIBUTION: COL VEN.
TYPE: Venezuela, *Moritz 1063* [lectotype, W (Luer 1999a)].
VOUCHER: Colombia, *Cuatrecasas 25327* (US).
- Stelis mesohybos*** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 155. 1924.
DISTRIBUTION: *COL.
TYPE: Colombia, *Hopf s.n.* (holotype, B, destroyed).
Note: An obscure taxon for which no original material seems to be available.
- Stelis microchila*** Schltr., Repert. Spec. Nov. Regni Veg. 9(214–216): 289. 1911.
ILLUSTRATION: Luer 2009a, f. 391, f. 391a; Misas Urreta 2005, p. 676.
DISTRIBUTION: BEL COL COS ELS GUA MEX PAN.
TYPE: Guatemala, *von Türckheim 700* (holotype, B, destroyed; lectotype, AMES-22591 (Luer 2009a); isolectotypes, BR, G; lectotype, AMES-72173 (Luer 2023)].
VOUCHER: Colombia, *Misas Urreta 125* (HPUJ).
Note: An isotype and original illustration at AMES have both been selected as lectotypes.
- Stelis microphylla*** Lindl., Fol. Orchid. ~Stelis~ 10, no. 74. 1852–1855 [1859].
ILLUSTRATION: Luer 2018a, f. 29.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Jameson s.n.* (holotype, K).
VOUCHER: Colombia, *Lehmann 6039* (AMES).
Note: We agree with Luer 2018a rather than Luer 2018b.
- Stelis miranda*** Luer & R.Escobar, Harvard Pap. Bot. 21(2): 206. 2016.
ILLUSTRATION: Luer 2016b, f. 25.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 7633* (holotype, SEL).
- Stelis mocoana*** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 33. 1924.
DISTRIBUTION: *COL.
TYPE: Colombia, *Hopp 159* (holotype, B, destroyed).
Note: An obscure taxon for which no original material seems to be available.
- Stelis molecula*** Luer & R.Escobar, Harvard Pap. Bot. 21(2): 208. 2016.
ILLUSTRATION: Luer 2016b, f. 26.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 10218* (holotype, MO).
- Stelis monetaria*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 79. 2016.
ILLUSTRATION: Luer 2016a, f. 32.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 16637* (holotype, MO).
- Stelis montserratii*** (Porsch) Karremans, Lankesteriana 13(3): 329. 2014. *Pleurothallis montserratii* Porsch, Oesterr. Bot. Z. 158. 1905.
ILLUSTRATION: Luer 1999a, f. 23 (p. 131); Loefgren 1918, pl. XXVI; Santos *et al.* 2019, f. 10, f. 10.
DISTRIBUTION: BOL BRA COL ECU PER.
TYPE: Brazil, *Wettstein & Schniffner s.n.* (holotype, W).
VOUCHER: Colombia, *Uribe 4856* (AMES, COL).
- Stelis mordica*** Luer & R.Escobar, Harvard Pap. Bot.

- 21(2): 208. 2016.
ILLUSTRATION: Luer 2016b, f. 27.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer & Escobar 8411* (holotype, SEL).
- Stelis morgani*** Dodson & Garay, *Icon. Pl. Trop.* 4: t. 328. 1980.
ILLUSTRATION: Luer 2009a, f. 393, f. 393a.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Dodson et al. 7796* (holotype, SEL).
- Stelis moritzii*** (Rchb.f.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 264. 2001. *Crocodelanthor moritzii* (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 256. 2004. *Humboldtia moritzii* (Rchb.f.) Kuntze, *Revis. Gen. Pl.* 2: 668. 1891. *Pleurothallis moritzii* Rchb.f., *Linnaea* 22: 824. 1849.
ILLUSTRATION: Luer 1998a, f. 41; Kolanowska & Szlachetko 2020b, f. 1.
DISTRIBUTION: COL ECU VEN.
TYPE: Venezuela, *Moritz 854* (holotype, W).
VOUCHER: Colombia, *Medina T. et al. 462* (JAUM).
- Stelis morula*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(1): 53. 2017.
ILLUSTRATION: Luer 2017a, f. 44.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 12545* (holotype, SEL).
- Stelis mucronipetala*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 33. 1924.
ILLUSTRATION: Luer 2018a, f. 30–31.
DISTRIBUTION: *COL.
TYPE: Colombia, *Hopp 135* (holotype, B, destroyed). Colombia, *Luer 8496* [neotype, SEL (Luer 2018a)].
- Stelis multirostris*** (Rchb.f.) Pridgeon & M.W.Chase, *Lindleyana* 17(2): 1000. 2002. *Pleurothallis multirostris* Rchb.f., *Linnaea* 41: 49. 1877.
ILLUSTRATION: Luer 2000a, f. 34 (p. 98); Stenzel 2004, f. 32.
DISTRIBUTION: COL COS CUB DOM ELS GUA HAI HON JAM MEX NIC PUE VEN.
TYPE: Jamaica, unknown collector (holotype, K; illustr., W).
- Stelis muscosa*** Lindl., *Fol. Orchid.* ~*Stelis*~ 7, no. 48. 1852–1855 [1859].
DISTRIBUTION: BOL BRA COL ECU GUY L.A. SUR VEN.
- TYPE: Venezuela, *Fendler 1468* (holotype, K-000573949).
VOUCHER: Colombia, *Ospina 61–28* (JAUM).
- Stelis mystriion*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(1): 79. 2016.
ILLUSTRATION: Luer 2016a, f. 33, f. 34.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 14180* (holotype, MO).
- Stelis nemoralis*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(1): 53. 2017.
ILLUSTRATION: Luer 2017a, f. 45.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 7689* (holotype, SEL).
- Stelis nexipous*** Garay, *Bot. Mus. Leafl.* 18(5): 194. 1958.
ILLUSTRATION: Luer 2009a, f. 346, f. 346a.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Asplund 19638* (holotype, S; isotype, AMES).
VOUCHER: Colombia, *Duque 1165* (JAUM).
- Stelis nexosa*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 208. 2016.
ILLUSTRATION: Luer 2016b, f. 28.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer & Escobar 8491* (holotype, SEL).
- Stelis niessen-andreae*** Luer, *Harvard Pap. Bot.* 22(2): 96. 2017.
ILLUSTRATION: Luer 2017b, f. 27.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 18432* (holotype, MO).
- Stelis niesseniae*** (Luer) Karremans, *Phytotaxa* 406(5): 265. 2019. *Effusiella niesseniae* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 112: 107. 2007. *Pleurothallis niesseniae* Luer, *Orquideología* 22(1): 59–61. 2001. *Specklinia niesseniae* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 262. 2004.
ILLUSTRATION: Luer 2001b, p. 61.
DISTRIBUTION: *COL.
TYPE: Colombia, *Niessen 121* (holotype, MO).
- Stelis nitens*** Rchb.f., *Bonplandia* (Hannover) 2: 22. 1854.
ILLUSTRATION: Ortiz & Uribe 2007 (CD Edition); Romero-González & Carnevali 2000, p. 1036.
DISTRIBUTION: COL ECU VEN.
TYPE: Venezuela, *Wagener s.n.* (holotype, W; illu-

- str., AMES-00104852).
 VOUCHER: Colombia, *Wagner s.n.* (W, AMES-00287033).
- Stelis nutans*** Lindl., *Fol. Orchid.* ~Stelis~ 15, no. 109. 1852–1855 [1859].
 ILLUSTRATION: Luer 2009a, f. 327, f. 327a; Luer 2018b, f. 83.
 DISTRIBUTION: BOL COL ECU.
 TYPE: Ecuador, *Jameson s.n.* (holotype, K; isotypes, W).
 VOUCHER: Colombia, *Rivas 35* (HUQ).
- Stelis obscula*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(1): 53. 2017.
 ILLUSTRATION: Luer 2017a, f. 46.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 7600* (holotype, SEL).
- Stelis oblector*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 210. 2016.
 ILLUSTRATION: Luer 2016b, f. 29.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 3087* (holotype, SEL).
- Stelis oblonga*** (Ruiz & Pav.) Willd., *Sp. Pl.* 4: 139. 1805. *Humboldtia oblonga* Ruiz & Pav., *Syst. Veg. Fl. Peruv. Chil.* 236. 1798.
 ILLUSTRATION: Luer 2002a, f. 50; Luer 2009a, f. 50, f. 50a (p. 220); Luer 2018c, f. 31; Ortiz & Uribe 2007 (CD Edition); Romero-González & Carnevalli 2000, p. 1038; Pupulin 2013, f. 48.
 DISTRIBUTION: COL ECU PER VEN.
 TYPE: Peru, *Pavón s.n.* (holotype, MA; isotype, W).
 VOUCHER: Colombia, *Pittier 1299* (US-531497, AMES-25099).
- Stelis oblongifolia*** Lindl., *Fol. Orchid.* ~Stelis~ 12, no. 89. 1852–1855 [1859].
 ILLUSTRATION: Luer 2009a, f. 396, f. 396a; Ortiz & Uribe 2007 (CD Edition).
 DISTRIBUTION: COL ECU PER.
 TYPE: Ecuador, *Jameson s.n.* (holotype, K).
- Stelis ocreosa*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 210. 2016.
 ILLUSTRATION: Luer 2016b, f. 30.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer & Escobar 8391* (holotype, SEL).
- Stelis octavioi*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(2): 98. 2017.
 ILLUSTRATION: Luer 2017b, f. 28.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 4549* (holotype, SEL).
- Stelis oligoblephara*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 34. 1924.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Hopp 133* (holotype, B, destroyed).
 Note: An obscure taxon for which no original material seems to be available.
- Stelis opercularis*** Luer, *Phytologia* 49(3): 233. 1981.
 ILLUSTRATION: Luer 2009a, f. 329.
 DISTRIBUTION: COL ECU VEN.
 TYPE: Ecuador, *Dodson et al. 5500* (holotype, SEL).
- Stelis ophiodontodes*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 210. 2016.
 ILLUSTRATION: Luer 2016b, f. 31.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 5142* (holotype, SEL).
- Stelis oreibator*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 211. 2016.
 ILLUSTRATION: Luer 2016b, f. 32.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 12549* (holotype, SEL).
- Stelis orphana*** Luer, *Harvard Pap. Bot.* 22(2): 100. 2017.
 ILLUSTRATION: Luer 2017b, f. 30.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 20217* (holotype, MO).
- Stelis oscarii*** Luer, *Harvard Pap. Bot.* 22(2): 112. 2017. *Stelis duquei* Luer & R.Escobar, *Harvard Pap. Bot.* 21(1): 67. 2016, *nom. illeg.* *Stelis occulta* O.Duque, *Orquideología* 27(2): 131–132. 2010, *nom. inval.* Non *Stelis duquei* P.Ortiz [2011].
 ILLUSTRATION: Duque 2010b, f. 17, ph. 46–47; Luer 2016a, f. 14.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 14328* (holotype, MO).
- Stelis ospinae*** (Kolan. & Szlach.) Karremans, *Phytotaxa* 496(2): 140. 2021. *Crocodelanthe ospinae* Kolan. & Szlach., *Phyton. Annales Rei Botanicae* 60: 125–126. 2020.

- ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 24.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Ospina-Hernández 70* (holotype, AMES-111319; drawing, UGDA).
- Stelis otara*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 211. 2016.
 ILLUSTRATION: Luer 2016b, f. 33.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 8961A* (holotype, SEL).
- Stelis ovatipetala*** (Kolan. & Szlach.) Karremans, *Phytotaxa* 496(2): 140. 2021. *Crococoeilanthe ovatipetala* Kolan. & Szlach., *Phyton. Annales Rei Botanicae* 60: 126. 2020.
 ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 25.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Schneider 241* (holotype, AMES-116222; drawing, UGDA).
- Stelis oxysepala*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 156. 1924.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Schnitter s.n.* (holotype, B, destroyed).
 Note: An obscure taxon for which no original material seems to be available.
- Stelis ozota*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 213. 2016.
 ILLUSTRATION: Luer 2016b, f. 34.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 3107* (holotype, SEL).
- Stelis pachoi*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 213. 2016.
 ILLUSTRATION: Luer 2016b, f. 35.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 17603* (holotype, MO).
- Stelis pachyphyta*** Luer & Hirtz, *Monogr. Syst. Bot. Missouri Bot. Gard.* 88: 55. 2002.
 ILLUSTRATION: Luer 2002a, f. 74; Ortiz & Medina 2012, f. 16. Fig. 14J.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 10848* (holotype, MO).
 VOUCHER: A photographic voucher of a Colombian specimen reproduced in Ortiz & Medina (2012).
- Stelis pachypus*** F.Lehm. & Kraenzl., *Bot. Jahrb. Syst.* 26: 447. 1899. *Crococoeilanthe pachypus* (F.Lehm. & Kraenzl.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 256. 2004. *Pleurothallis pachypus* (F.Lehm. & Kraenzl.) Garay, *Canad. J. Bot.* 34: 254. 1956.
 ILLUSTRATION: Luer 1998a, f. 44.
 DISTRIBUTION: BOL COL ECU PER.
 TYPE: Colombia, *Lehmann 3176* [holotype, B, destroyed; lectotype (selected here), K-000584305; isolectotypes, AMES-00104870, G-00168935, BR-0000006594787, NY-00009405, US00093578).
- Stelis pachystachya*** Lindl., *Fol. Orchid. ~Stelis~* 13. 1852–1855 [1859].
 ILLUSTRATION: Ortiz & Uribe 2007 (CD Edition).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Purdie s.n.* (holotype, K-000573938).
- Stelis pachystele*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 7: 29. 1920.
 ILLUSTRATION: Luer 2018a, f. 32.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Lehmann 6922* [holotype, B, destroyed; lectotype (selected here), K-000573932; isolectotypes, K-000573933, GH-00104890, LE-00001402, NY-00009406].
- Stelis pachythrinx*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 213. 2016.
 ILLUSTRATION: Luer 2016b, f. 36.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 10114* (holotype, SEL).
- Stelis palifera*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(1): 55. 2017.
 ILLUSTRATION: Luer 2017a, f. 47.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 7679* (holotype, SEL).
- Stelis palimmesces*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(1): 79. 2016.
 ILLUSTRATION: Luer 2016a, f. 35.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 16832a* (holotype, MO).
- Stelis papaquerensis*** Rchb.f., *Linnaea* 22: 822. 1849.
 ILLUSTRATION: Cogniaux 1896, t. 80 (I), t. 81 (IV, V); Misas Urreta 2005, p. 686.
 DISTRIBUTION: BRA COL FRE GUY L.A. SUR VEN.
 TYPE: Brazil, *Beyrich s.n.* (holotype, W).
 VOUCHER: Colombia, *Misas Urreta 287* (HPUJ).

- Stelis papilio*** O.Duque, Orquideología 20(3): 358, 361. 1997.
ILLUSTRATION: Duque 1997, p. 363, ph. 1–3 (pl. VI); Luer 2018a, f. 33; Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 419* (holotype, JAUM).
- Stelis papiliopsis*** O.Duque, Orquideología 20(3): 361–362. 1997.
ILLUSTRATION: Duque 1997, p. 367; ph. 4–6 (pl. VI); Luer 2018a, f. 33; Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 1366* (holotype, JAUM).
- Stelis papillipetala*** (Kolan. & Szlach.) Karremans, Phytotaxa 496(2): 140. 2021. *Crocodelanthe papillipetala* Kolan. & Szlach., Phyt. Annales Rei Botanicae 60: 127. 2020.
ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 26.
DISTRIBUTION: *COL.
TYPE: Colombia, *Schneider 304* (holotype, AMES-111732; drawing, UGDA).
- Stelis papposa*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 80. 2016.
ILLUSTRATION: Luer 2016a, f. 36.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 8755* (holotype, SEL).
- Stelis paradoxa*** Luer & R.Escobar, Harvard Pap. Bot. 21(2): 215. 2016.
ILLUSTRATION: Luer 2016b, f. 37.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 14263* (holotype, SEL).
- Stelis paraguasensis*** Luer, Selbyana 30(1): 23. 2009.
ILLUSTRATION: Luer 2009b, f. 44; Luer 2018c, f. 33–36.
DISTRIBUTION: *COL.
TYPE: Colombia, *Silverstone-Sopkin et al. 7955* (holotype, CUVC).
- Stelis pardipes*** Rchb.f., Beitr. Orchid.-K. C. Amer. 96. 1866. *Stelis trisetata* var. *pardipes* (Rchb.f.) C.Schweinf., Bot. Mus. Leaf. 15(1): 24–25. 1951.
ILLUSTRATION: Luer 2009a, f. 330, f. 330a, f. 321, f. 321a; Luer 2018b, f. 90, f. 91; Luer 2018c, f. 37, f. 38; Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: BOL COL COS ECU ELS GUA HON MEX NIC PAN PER.
TYPE: Costa Rica, *Wendland 899* (holotype, W).
VOUCHER: Colombia, *Duque 1592* (JAUM).
- Stelis parviflora*** (Ruiz & Pav.) Pers., Syn. Pl. 2: 524. 1807. *Humboldtia parviflora* Ruiz & Pav., Syst. Veg. Fl. Peruv. Chil. 236. 1798.
ILLUSTRATION: Pupulin 2013, f. 49.
DISTRIBUTION: COL PER.
TYPE: Peru, *Ruiz & Pavón s.n.* (holotype, MA; isotype, BM-000082442).
VOUCHER: Colombia, *Valencia et al. 383* (JBB).
- Stelis parvilabris*** Lindl., Ann. Mag. Nat. Hist. 15: 385. 1845.
ILLUSTRATION: Luer 2018a, f. 34; Ortiz & Uribe 2007 (CD Edition); Romero-González & Carnevalli 2000, p. 1039. Fig. 14E.
DISTRIBUTION: COL VEN.
TYPE: Colombia, *Hartweg s.n.* (holotype, K).
- Stelis pasminoi*** Luer, Harvard Pap. Bot. 22(2): 100. 2017.
ILLUSTRATION: Luer 2017b, f. 31.
DISTRIBUTION: *COL.
TYPE: Colombia, *Pasmíño & Posso 31* (holotype, MO; isotype, PSO).
- Stelis paulallenii*** Karremans, Phytotaxa 496(2): 140. 2021. *Crocodelanthe allenii* Kolan. & Szlach., Phyt. Annales Rei Botanicae 60: 107–108. 2020. Non *Stelis allenii* L.O.Williams [1942].
ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 3.
DISTRIBUTION: *COL.
TYPE: Colombia, *Allen 3003* (holotype, AMES; drawing, UGDA).
- Stelis pauxilla*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 80. 2016.
ILLUSTRATION: Luer 2016a, f. 37.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer & Escobar 8365* (holotype, MO).
- Stelis pendularis*** O.Duque, Orquideología 27(2): 138, 141. 2010.
ILLUSTRATION: Duque 2010b, f. 19, ph. 51–53.
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 2442* (holotype, JAUM).
- Stelis pendulata*** O.Duque, Orquideología 27(2): 141–142. 2010.
ILLUSTRATION: Duque 2010b, f. 20, ph. 54–56.
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 2280* (holotype, JAUM).
- Stelis pennelliana*** (Luer) Pridgeon & M.W.Chase, Lindleyana 16(4): 265. 2001. *Crocodelanthe pen-*

- nelliana* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 256. 2004. *Pleurothallis pennelliana* Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 65: 43, f. 47. 1998.
ILLUSTRATION: Luer 1998a, f. 47; Kolanowska & Szlachetko 2020b, f. 22.
DISTRIBUTION: *COL.
TYPE: Colombia, *Pennell 2043* (holotype, US; isotype, AMES).
- Stelis perbona*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 82. 2016.
ILLUSTRATION: Luer 2016a, f. 38.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 8901* (holotype, SEL).
- Stelis pertenius*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 82. 2016.
ILLUSTRATION: Luer 2016a, f. 39; Misas Urreta 2005, p. 702.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer de Wilde s.n.* (holotype, MO).
- Stelis petiolaris*** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 36. 1924.
DISTRIBUTION: *COL.
TYPE: Colombia, *Hopp 48* (holotype, B, destroyed).
Note: An obscure taxon for which no original material seems to be available.
- Stelis pili-papillosa*** O.Duque, Orquideología 27(2): 142. 2010.
ILLUSTRATION: Duque 2010b, f. 21, ph. 57–59.
TYPE: Colombia, *Duque 1957* (holotype, JAUM).
- Stelis pilicrepa*** Luer & R.Escobar, Harvard Pap. Bot. 22(1): 55. 2017.
ILLUSTRATION: Luer 2017a, f. 48.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 7686* (holotype, SEL).
- Stelis pilifera*** (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16(4): 265. 2001. *Crococdeilanthe pilifera* (Lindl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 256. 2004. *Humboldtia pilifera* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Pleurothallis pilifera* Lindl., Fol. Orchid. ~Pleurothallis~ 9. 1859.
ILLUSTRATION: Luer 1998a, f. 48.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Jameson s.n.* (holotype, K).
VOUCHER: Colombia, *Valoyes s.n.* (IIAP).
- Stelis pittieri*** (Schltr.) Rojas-Alv. & Karremans, Phytotaxa 406(5): 266. 2019. *Pleurothallis pittieri* Schltr., Repert. Spec. Nov. Regni Veg. 3(42–43): 247. 1907. *Stelis pittieri* Schltr. ex Knuth, Repert. Spec. Nov. Regni Veg. Beih. 43: 227. 1927, *nom. inval.*
ILLUSTRATION: Luer 1998a, f. 20.
DISTRIBUTION: BOL COL COS ECU L.A. PAN PER VEN.
TYPE: Costa Rica, *Pittier 2067* (holotype, B, destroyed). Costa Rica, *Pittier 2023* [neotype, AMES-23666 (Luer 1998a)].
VOUCHER: Colombia, *Lehmann 3746* (BR).
- Stelis platystachya*** Garay & Dunst., Venez. Orchid. III. Vol. 1. 6: 424. 1976.
ILLUSTRATION: Luer 2009a, f. 400; Romero-González & Carnevalli 2000, p. 1040.
DISTRIBUTION: COL ECU VEN.
TYPE: Colombia, *Foster 1774* (holotype, AMES; isotype, COL).
- Stelis pleistantha*** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 36. 1924. *Apatostelis pleistantha* (Schltr.) Garay, Bot. Mus. Leafl. 27: 190. 1979.
ILLUSTRATION: Luer 2018a, f. 35.
DISTRIBUTION: *COL.
TYPE: Colombia, *Hopp 139* (holotype, B, destroyed).
- Stelis pollerecta*** Luer & R.Escobar, Harvard Pap. Bot. 21(2): 215. 2016.
ILLUSTRATION: Luer 2016b, f. 38.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer & Escobar 8393* (holotype, SEL).
- Stelis polyclada*** Lindl., Fol. Orchid. ~Stelis~ 10, no. 69. 1852–1855 [1859].
ILLUSTRATION: Luer 2018a, f. 36.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Jameson s.n.* (holotype, K).
VOUCHER: Colombia, *Hopp 151* (B, destroyed).
Note: We agree with Luer 2018a rather than Luer 2018b.
- Stelis popayanensis*** F.Lehm. & Kraenzl., Bot. Jahrb. Syst. 26(3–4): 448. 1899.
ILLUSTRATION: Luer 2018a, f. 37.
DISTRIBUTION: *COL.
TYPE: Colombia, *Lehmann 6817* (holotype, K).
- Stelis porpax*** Rehb.f., Bonplandia (Hannover) 2: 23. 1854.
ILLUSTRATION: Luer 2009a, f. 402; Romero-González & Carnevalli 2000 (p. 1041); Ortiz &

- ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 32.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Schultes & Cabrera 20106* (holotype, AMES-111705; drawing, UGDA).
- Stelis regalis*** (Luer) Karremans, Lankesteriana 13(3): 329. 2014. *Anathallis regalis* (Luer) Pridgeon & M.W.Chase, Lindleyana 16(4): 250. 2001. *Pleurothallis regalis* Luer, Selbyana 5(2): 178. 1979. *Specklinia regalis* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 263. 2004.
 ILLUSTRATION: Luer 1999a, f. 22 (p. 131).
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 3998* (holotype, SEL).
 VOUCHER: Colombia, *Ordóñez 389* (JBB).
- Stelis remulifera*** Luer & R.Escobar, Harvard Pap. Bot. 22(2): 101. 2017.
 ILLUSTRATION: Luer 2017b, f. 35. Fig. 151.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 7481* (holotype, SEL).
- Stelis renilabia*** (Kolan. & Szlach.) Karremans, Phytotaxa 496(2): 141. 2021. *Crocodelanthe renilabia* Kolan. & Szlach., Phytotaxa 60: 133–134. 2020.
 ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 33.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Garay et al. 418* (holotype, AMES; drawing, UGDA).
- Stelis repens*** Cogn., Symb. Antill. 6: 692. 1910.
 ILLUSTRATION: Luer 2009a, f. 407; Luer 2018b, f. 107; Luer & Toscano de Brito 2019, f. 21.
 DISTRIBUTION: BOL COL DOM ECU HAI.
 TYPE: Dominican Republic, *Tuerckheim 3329* (holotype, BR; isotypes, AMES, K, US).
 VOUCHER: Colombia, *Dueñas 2927* (JBB).
- Stelis reptans*** Pridgeon & M.W.Chase, Lindleyana 17(2): 100. 2002. *Pleurothallis scansor* Luer, Phytologia 49(3): 216. 1981. *Crocodelanthe scansor* (Luer) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 257. 2004. *Stelis scansor* (Luer) Pridgeon & M.W.Chase, Lindleyana 16(4): 266. 2001, *nom. illeg.* Non *Stelis scansor* Rchb.f. [1855].
 ILLUSTRATION: Luer 1998a, f. 57.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 6259* (holotype, SEL).
 VOUCHER: Colombia, *Cuatrecasas 19264* (AMES).
- Stelis reptata*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 85. 2016.
 ILLUSTRATION: Luer 2016a, f. 43.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 3706* (holotype, SEL).
- Stelis retroversa*** O.Duque, Orquideología 20(3): 365, 366. 1997.
 ILLUSTRATION: Duque 1997, p. 368; ph. 1–3 (pl. VII).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Duque 1308* (holotype, JAUM).
- Stelis rhamphosa*** O.Duque, Orquideología 27(2): 149–150. 2010.
 ILLUSTRATION: Duque 2010b, f. 23, ph. 63–64.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Duque 2046* (holotype, JAUM).
- Stelis rhodotantha*** (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16(4): 266. 2001. *Crocodelanthe rhodotantha* (Rchb.f.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 257. 2004. *Humboldtia rhodotantha* (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Pleurothallis rhodotantha* Rchb.f., Linnaea 22: 825. 1849.
 ILLUSTRATION: Luer 1998a, f. 54.
 DISTRIBUTION: BOL COL ECU.
 TYPE: Colombia, *Schlim 1442* (holotype, W; isotype, G).
- Stelis rhomboidea*** Garay, Canad. J. Bot. 34: 353. 1956.
 ILLUSTRATION: Luer 2018a, f. 38. Fig. 15J.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Cuatrecasas 9465* (holotype, US-1850742; isotype, AMES).
- Stelis rhynchanthera*** F.Lehm. & Kraenzl., Bot. Jahrb. Syst. 26: 447. 1898.
 ILLUSTRATION: Luer 2018a, f. 39.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Lehmann 6817* (holotype, K).
- Stelis ricaurtensis*** Luer & Hirtz, Harvard Pap. Bot. 22(2): 103. 2017.
 ILLUSTRATION: Luer 2017b, f. 36.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 4595* (holotype, SEL).
- Stelis richardii*** Karremans, Phytotaxa 496(2): 141. 2021. *Crocodelanthe putumayoensis* Kolan. & Szlach., Phytotaxa 60: 129–130. 2020. Non *Stelis putumayoensis* Luer & R.Escobar [2017].

- ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 29.
DISTRIBUTION: *COL.
TYPE: Colombia, *Schultes & Villarreal 7591* (holotype, AMES; drawing, UGDA).
- Stelis rictoria*** (Rchb.f.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 266. 2001. *Crocodeilantho rictoria* (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 257. 2004. *Pleurothallis rictoria* Rchb.f., *Linnaea* 41: 14. 1877.
ILLUSTRATION: Luer 1998a, f. 55.
DISTRIBUTION: *COL.
TYPE: Colombia, *Warszewicz s.n.* (holotype, W).
- Stelis rictus*** O.Duque, *Orquideología* 27(2): 150, 153. 2010.
ILLUSTRATION: Duque 2010b, f. 24, ph. 65–66.
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 2468* (holotype, JAUM).
- Stelis risaraldae*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(2): 103. 2017.
ILLUSTRATION: Luer 2017b, f. 37.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 16775* (holotype, SEL).
- Stelis rodrigoii*** (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 266. 2001. *Condylago rodrigoii* Luer, *Orquideología* 15(2–3): 118–122. 1982.
ILLUSTRATION: Luer 1982, p. 119, p. 120; Luer 1987, pl. 1 (p. 23).
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 1952* (holotype, SEL; isotype, JAUM).
- Stelis romerocastanedoi*** (Kolan. & Szlach.) Karremans, *Phytotaxa* 496(2): 142. 2021. *Crocodeilantho romerocastanedoi* Kolan. & Szlach., *Phyton. Annales Rei Botanicae* 60: 134. 2020.
ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 34.
DISTRIBUTION: *COL.
TYPE: Colombia, *Catrecasas & Romero Castañeda 25343* (holotype, AMES; drawing, UGDA).
- Stelis roseopunctata*** (Lindl.) R. Bernal, *Phytoneuron* 22: 5. 2015. *Pleurothallis roseopunctata* Lindl., *Orchid. Linden.* 2. 1846. *Humboldtia roseopunctata* (Lindl.) Kuntze, *Revis. Gen. Pl.* 2: 668. 1891.
ILLUSTRATION: Luer 1998a, f. 18.
DISTRIBUTION: COL VEN.
- TYPE: Venezuela, *Linden 629* (holotype, K-000674230; isotypes, AMES-00074702, BR-0000006584979, G-00168955, P-00485832, P-00485831, W-R-0053234).
VOUCHER: Colombia, *Humboldt & Bonpland s.n.* (P, W).
- Stelis rubens*** Schltr., *Repert. Spec. Nov. Regni Veg.* 8(191–195): 564. 1910. *Apatostelis rubens* (Schltr.) Garay, *Bot. Mus. Leafl.* 27(7–9): 190. 1979.
DISTRIBUTION: BEL COL GUA HON MEX NIC.
TYPE: Guatemala, *von Türckheim II 1061* (holotype, B, destroyed). Guatemala, *von Türckheim II 1061* [neotype, AMES-00104966 (24933), illustration of type (Luer 2023)].
VOUCHER: Colombia, *Duque 1842* (JAUM).
- Stelis ruris*** O.Duque, *Orquideología* 27(2): 153–154. 2010.
ILLUSTRATION: Duque 2010b, f. 25, ph. 67–68.
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 2455* (holotype, JAUM).
- Stelis sagittata*** Zambrano & Solano, *Phytotaxa* 376(4): 183. 2018. *Crocodeilantho jamiesonii* (Lindl.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 256. 2004. *Humboldtia jamiesonii* (Lindl.) Kuntze, *Revis. Gen. Pl.* 2: 667. 1891. *Pleurothallis jamiesonii* Lindl., *Edwards's Bot. Reg.* 21: sub t. 1797. 1835. *Stelis jamiesonii* (Lindl.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 264. 2001, *nom. illeg.* Non *Stelis jamesonii* Lindl. [1834].
ILLUSTRATION: Luer 1998a, f. 28.
DISTRIBUTION: COL ECU PER.
TYPE: Ecuador, *Jameson s.n.* (holotype, K; isotype, AMES).
VOUCHER: Colombia, *Cuatrecasas 18794* (AMES, NY, US).
- Stelis salomonica*** O.Duque, *Orquideología* 27(2): 15. 2010.
ILLUSTRATION: Duque 2010b, f. 27, ph. 71–73.
DISTRIBUTION: *COL.
TYPE: Colombia, *Murillo s.n.* (holotype, JAUM).
- Stelis salpingantha*** (Luer & Hirtz) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 266. 2001. *Crocodeilantho salpingantha* (Luer & Hirtz) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 257. 2004. *Pleurothallis salpingantha* Luer & Hirtz, *Monogr. Syst. Bot. Missouri Bot. Gard.* 65: 50–51, f. 56. 1998.
ILLUSTRATION: Luer 1998a, f. 56.

- DISTRIBUTION: COL ECU PER VEN.
 TYPE: Ecuador, *Luer et al. 10865* (holotype, MO).
 VOUCHER: Colombia, *Luer et al. 10335* (MO).
- Stelis samson*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(1): 85. 2016.
 ILLUSTRATION: Luer 2016a, f. 45.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 10098* (holotype, MO).
- Stelis sanguinea*** Garay, *Canad. J. Bot.* 34(3): 354. 1956.
 ILLUSTRATION: Garay 1956b, f. 2A.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *John 20878* (holotype, AMES-00271912; isotype, US-00093590).
- Stelis santiagoensis*** Mansf., *Notizbl. Bot. Gart. Berlin-Dahlem* 10: 239. 1928.
 ILLUSTRATION: Romero-González & Carnevalli 2000, p. 1046.
 DISTRIBUTION: BOL COL FRE GUY PER VEN.
 TYPE: Peru, *Tessmann 4363* (holotype, B, destroyed). Peru, *Tessmann 4068* [lectotype (selected here), AMES-00271935; isolectotype, S-R-5896; ILLUSTRATION, AMES-00104974].
 VOUCHER: Colombia, *Duque 1148* (JAUM).
- Stelis saurota*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(2): 103. 2017.
 ILLUSTRATION: Luer 2017b, f. 38.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 9006* (holotype, SEL).
- Stelis scalaris*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(2): 104. 2017.
 ILLUSTRATION: Luer 2017b, f. 39, 40.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer & Escobar 6576* (holotype, SEL).
- Stelis scansor*** Rchb.f., *Bonplandia* (Hannover) 3: 241. 1855.
 ILLUSTRATION: Luer 2009a, f. 410.
 DISTRIBUTION: COL ECU.
 TYPE: Colombia, *Jameson 448* (holotype, W; isotypes; AMES, BM, BR, G, K, LE).
- Stelis scaphoides*** O.Duque, *Orquideologia* 20: 369. 1997.
 ILLUSTRATION: Duque 1997, p. 367, ph. 4–6 (pl. VII).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Duque 1814* (holotype, JAUM).
- Stelis sceptrumrubrum*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(1): 56. 2017.
 ILLUSTRATION: Luer 2017a, f. 51.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 7670* (holotype, SEL).
- Stelis schlechteriana*** Garay, *Bot. Mus. Leaflet* 27(7–9): 184. 1979. *Stelis mirabilis* Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 32. 1924, *nom. illeg.* Non *Stelis mirabilis* Schltr. [1923].
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Hopp 140* (holotype, B, destroyed).
 Note: An obscure taxon for which no original material seems to be available.
- Stelis schlimii*** (Luer) Karremans, *LANKESTERIANA* 13(3): 330. 2014. *Anathallis schlimii* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 250. 2001. *Pleurothallis schlimii* Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 76: 120, f. 25. 1999. *Specklinia schlimii* (Luer) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 263. 2004.
 ILLUSTRATION: Luer 1999a, f. 25 (p. 132).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Schlim 1441* (holotype, W; isotype, K-L).
- Stelis schmidtchenii*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 157. 1924.
 ILLUSTRATION: Luer 2018a, f. 40–42; Romero-González & Carnevalli 2000, p. 1047.
 DISTRIBUTION: COL VEN.
 TYPE: Colombia, *Schmidtchen s.n.* (holotype, B, lost). Colombia, Luer 17593 [neotype, SEL (Luer 2018a)].
- Stelis schneideri*** (Kolan. & Szlach.) Karremans, *comb. nov.* Bas.: *Crocodelanthe schneideri* Kolan. & Szlach., *Phyton. Annales Rei Botanicae* 60: 136. 2020.
 ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 36.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Schneider 276* (holotype, AMES-116223; drawing, UGDA).
- Stelis schnitteri*** Schltr., *Notizbl. Bot. Gart. Berlin-Dahlem* 7: 528. 1921.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Schnitter s.n.* (holotype, B, destroyed).
- Stelis schomburgkii*** Fawc. & Rendle, *J. Bot.* 48: 108. 1910.

- ILLUSTRATION: Luer 2007, f. 242; Luer 2009a, f. 242a, f. 242b; Luer 2018c, f. 47; Romero-González & Carnevalli 2000, p. 1048.
 DISTRIBUTION: COL ECU GUY VEN.
 TYPE: Venezuela, *Schomburgk 1025* (holotype, K).
 VOUCHER: Colombia, *Viveros 147* (HUQ).
- Stelis schultesii*** (Kolan. & Szlach.) Karremans, *Phytotaxa* 496(2): 142. 2021. *Crocodelanthe schultesii* Kolan. & Szlach., *Phyton. Annales Rei Botanicae* 60: 136–137. 2020.
 ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 37.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Schultes s.n.* (holotype, AMES; drawing, UGDA).
- Stelis sclerophylla*** (Lindl.) Karremans, *Lankesteriana* 13(3): 330. 2014. *Anathallis sclerophylla* (Lindl.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 250. 2001. *Humboldtia sclerophylla* (Lindl.) Kuntze, *Revis. Gen. Pl.* 2: 668. 1891. *Pleurothallis sclerophylla* Lindl., *Edwards's Bot. Reg.* 21, sub. t. 1797 no. 31. 1835. *Specklinia sclerophylla* (Lindl.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 263. 2004.
 ILLUSTRATION: Luer 1999a, f. 26 (p. 132); Santos *et al.* 2019, f. 1p, f. 11; Luer 1975f, f. 77.
 DISTRIBUTION: BOL BRA COL ECU GUY PER VEN.
 TYPE: Brazil, *Martius s.n.* (holotype, M; isotype, W).
 VOUCHER: Colombia, *Lehmann 6065* (K, AMES, HB, NY, US, W).
- Stelis scutella*** O.Duque, *Orquideología* 20(3): 370–372. 1997.
 ILLUSTRATION: Duque 1997, p. 367; ph. 7–9 (pl. VII).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Duque 1631* (holotype, JAUM).
- Stelis scutellifera*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(1): 56. 2017.
 ILLUSTRATION: Luer 2017a, f. 52.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 7516* (holotype, SEL).
- Stelis secundosa*** Luer, *Harvard Pap. Bot.* 22(2): 104. 2017.
 ILLUSTRATION: Luer 2017b, f. 41.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 6543* (holotype, SEL).
- Stelis selliformis*** O.Duque ex Karremans, *Phytotaxa* 203(3): 293. 2015. *Stelis selliformis* O.Duque, *Orquideología* 27(2): 161–162. 2010, *nom. inval.*
 ILLUSTRATION: Duque 2010b, f. 28, ph. 74–77.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Duque & Gonzaga 2463* (JAUM).
- Stelis semperflorens*** Luer, *Phytologia* 49(3): 238–239. 1981.
 DISTRIBUTION: COL PAN.
 TYPE: Panama, *Luer et al. 966* (holotype, SEL).
 VOUCHER: Colombia, *Gentry 30460* (JAUM, MO).
- Stelis septicola*** Luer & Endara, *Monogr. Syst. Bot. Missouri Bot. Gard.* 112: 48–49. 2007.
 ILLUSTRATION: Luer 2007, f. 287; Luer 2009a, f. 408.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Lojtmant & Molau 15605* (holotype, AAU).
 VOUCHER: Colombia, *Duque 2135* (JAUM).
- Stelis sesquipedalis*** Lindl., *Orchid. Linden.* 3. 1859.
 ILLUSTRATION: Luer 2017a, f. 21, 22.
 DISTRIBUTION: COL VEN.
 TYPE: Venezuela, *Linden 632* (holotype, K).
 VOUCHER: Colombia, *Luer et al. 10323* (MO).
- Stelis sibundoyensis*** (Kolan. & Szlach.) Karremans, *Phytotaxa* 496(2): 142. 2021. *Crocodelanthe sibundoyensis* Kolan. & Szlach., *Phyton. Annales Rei Botanicae* 60: 137–138. 2020.
 ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 38.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Medina et al. S18a/07* (holotype, JAUM).
- Stelis silverstonei*** Luer, *Orquideología* 22(1): 62–64. 2001.
 ILLUSTRATION: Luer 2001b, p. 63; Luer 2016a, f. 5.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Silverstone-Sopkin 4147* (holotype, CUVC).
- Stelis silvestris*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 218. 2016.
 ILLUSTRATION: Luer 2016b, f. 42.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 3706* (holotype, SEL).
- Stelis simula*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 7: 93. 1920.
 DISTRIBUTION: *COL.

- TYPE: Colombia, *Lehmann 6813* (holotype, B, destroyed; lectotype (selected here), AMES-00104986; isolectotypes, K-000573875, LE-00001406, NY-00009413).
 Note: An obscure taxon.
- Stelis sobrina*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(2): 107. 2017.
 ILLUSTRATION: Luer 2017b, f. 42, 43.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 3016* (holotype, SEL).
- Stelis spathilabia*** (Schltr.) Karremans, *Lankesteriana* 13(3): 330. 2014. *Anathallis spathilabia* (Schltr.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 251. 2001. *Pleurothallis spathilabia* Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 56. 1924. *Specklinia spathilabia* (Schltr.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 264. 2004.
 ILLUSTRATION: Luer 1999a, f. 28 (p. 132).
 DISTRIBUTION: COL ECU.
 TYPE: Colombia, *Hopp 117* (holotype, B, destroyed).
- Stelis spathosa*** (Luer & R.Escobar) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 266. 2001. *Crocodelanthe spathosa* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 257. 2004. *Pleurothallis spathosa* Luer & R.Escobar, *Orquideología* 20: 86. 1996.
 ILLUSTRATION: Luer & Escobar 1996, p. 85; Luer 1998a, f. 60.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 10175* (holotype, MO).
- Stelis spathulata*** Poepp. & Endl., *Nov. Gen. Sp. Pl.* 1: 46–47, t. 80. 1836.
 ILLUSTRATION: Luer 2009a, f. 412, f. 412a; Luer 2018c, f. 48; Romero-González & Carnevalli 2000, p. 1049.
 DISTRIBUTION: COL COS ECU GUA PAN PER VEN.
 TYPE: Peru, *Poeppig s.n.* [lectotype, W (Kolanowska 2014)].
 VOUCHER: Colombia, *Viveros 785* (HUQ).
- Stelis splendens*** Luer, *Harvard Pap. Bot.* 22(2): 107. 2017.
 ILLUSTRATION: Luer 2017b, f. 44.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Silverstone-Sopkin 3784* (holotype, MO; isotype, CUVC).
- Stelis stapedia*** O.Duque, *Orquideología* 20(3): 372, 373. 1997.
 ILLUSTRATION: Duque 1997, p. 368; ph. 1–3 (pl. VIII).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Duque 1376* (holotype, JAUM).
- Stelis stenophylla*** Rchb.f., *Bonplandia* (Hannover) 3: 70. 1855.
 ILLUSTRATION: Luer 2018a, f. 43; Romero-González & Carnevalli 2000, p. 1050.
 DISTRIBUTION: COL VEN.
 TYPE: Colombia, *Wagner s.n.* (holotype, W).
- Stelis stergiosii*** (Carnevali & I.Ramírez) Karremans, *Phytotaxa* 203(3): 293. 2015. *Crocodelanthe stergiosii* (Carnevali & I.Ramírez) Carnevali & I.Ramírez, *Nuevo Cat. Fl. Vasc. Venezuela* 578. 2008. *Pleurothallis stergiosii* Carnevali & I.Ramírez, *Harvard Pap. Bot.* 3: 247. 1998.
 ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 2.
 DISTRIBUTION: COL VEN.
 TYPE: Venezuela, *Stergios et al. 2246* (holotype, PORT; isotypes, MO, VEN).
 VOUCHER: Colombia, *Foster 1768* (AMES-114016).
- Stelis stigmatica*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(2): 107. 2017.
 ILLUSTRATION: Luer 2017b, f. 45.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 6745* (holotype, SEL).
- Stelis stipitata*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 218. 2016.
 ILLUSTRATION: Luer 2016b, f. 43.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 8856* (holotype, SEL).
- Stelis stolonifera*** Luer & Hirtz, *Harvard Pap. Bot.* 22(2): 108. 2017.
 ILLUSTRATION: Luer 2017b, f. 46.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 4642* (holotype, SEL).
- Stelis straminea*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 218. 2016.
 ILLUSTRATION: Luer 2016b, f. 44.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer & Escobar 8477* (holotype, SEL).
- Stelis striolata*** Lindl., *Fol. Orchid.* ~*Stelis*~ 4, no. 26. 1852–1855 [1859].

- ILLUSTRATION: Luer 2009a, f. 413; Romero-González & Carnevalli 2000, p. 1051.
 DISTRIBUTION: COL ECU PER VEN.
 TYPE: Ecuador, *Jameson s.n.* (holotype, K).
 VOUCHER: Colombia, *Rivas 26* (HUQ).
- Stelis subana*** Karremans, *Phytotaxa* 496(2): 140. 2021. *Crocodelanthe bogotensis* Kolan. & Szlach., *Phyton. Annales Rei Botanicae* 60: 111–112. 2020. Non *Stelis bogotensis* Schltr. [1924].
 ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 7.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Schiefer 702* (holotype, AMES-113802; drawing, UGDA).
- Stelis sublesta*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 220. 2016.
 ILLUSTRATION: Luer 2016b, f. 45.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 3085* (holotype, SEL).
- Stelis suborbiculata*** (Kolan. & Szlach.) Karremans, *Phytotaxa* 496(2): 142. 2021. *Crocodelanthe suborbiculata* Kolan. & Szlach., *Phyton. Annales Rei Botanicae* 60: 138–139. 2020.
 ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 39.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Schneider 29* (holotype, AMES-115985; drawing, UGDA).
- Stelis sulcata*** O.Duque, *Orquideología* 27(2): 154, 157. 2010.
 ILLUSTRATION: Duque 2010b, f. 26, ph. 69–70.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Duque 2448* (holotype, JAUM).
- Stelis superbiens*** Lindl., *Fol. Orchid. ~Stelis~* (8): 8. 1852–1855 [1859].
 ILLUSTRATION: Luer 2009a, f. 395, f. 414; Luer 2018b, f. 131; Luer 2018c, f. 49–51; Misas Urreta 2005, p. 714; Ortiz & Uribe 2007 (CD Edition). Fig. 14H.
 DISTRIBUTION: BOL COL COS ECU GUA HON MEX PAN PER VEN.
 TYPE: Colombia, *Purdie s.n.* (holotype, K; isotype, GH).
- Stelis tarantula*** (Luer & Hirtz) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 267. 2001. *Effusiella tarantula* (Luer & Hirtz) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 112: 107. 2007. *Pleurothallis tarantula* Luer & Hirtz, *Lindleyana* 11(3): 186–187. 1996. *Specklinia tarantula* (Luer & Hirtz) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 264. 2004.
 ILLUSTRATION: Luer 2000a, f. 38 (p. 99); Luer 1996c, f. 57. Fig. 14D.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Luer et al. 13553* (holotype, MO; isotypes, K, QCNE).
 VOUCHER: Colombia, *Luer 14212* (MO).
- Stelis taurina*** O.Duque, *Orquideología* 20(3): 374, 376. 1997.
 ILLUSTRATION: Duque 1997, p. 368; ph. 7–9 (pl. VIII).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Duque 161* (holotype, JAUM).
- Stelis tauroculus*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 220. 2016.
 ILLUSTRATION: Luer 2016b, f. 46.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 12541* (holotype, MO).
- Stelis tenuilabris*** Lindl., *Fol. Orchid. ~Stelis~* 4, no. 20. 1852–1855 [1859].
 ILLUSTRATION: Luer 2007, f. 222; Luer 2018c, f. 52; Romero-González & Carnevalli 2000, p. 1003.
 DISTRIBUTION: COL ECU VEN.
 TYPE: Venezuela, *Fendler 1471* (holotype, K; isotypes, AMES, BR, G, GOET).
 VOUCHER: Colombia, *Lozano 4141* (COL).
- Stelis tenuipetala*** Garay, *Canad. J. Bot.* 34(3): 354. 1956.
 ILLUSTRATION: Garay 1956b, f. 2C.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *von Sneidern 1097* (holotype, S).
- Stelis titanica*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 220. 2016.
 ILLUSTRATION: Luer 2016b, f. 47.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 14172* (holotype, MO).
- Stelis tolimensis*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 157. 1924.
 DISTRIBUTION: COL VEN.
 TYPE: Colombia, *Schmidtchen s.n.* (holotype, B, destroyed).
 Note: An obscure taxon for which no original material seems to be available.
- Stelis tonduziana*** Schltr., *Beih. Bot. Centralbl., Abt.* 2 36(2): 393. 1918. *Apatostelis tonduziana* (Schltr.)

- Garay, Bot. Mus. Leaf. 27(7–9): 191. 1979.
DISTRIBUTION: COL COS.
TYPE: Costa Rica, *Jiménez 618* [holotype, B, destroyed; lectotype, AMES-24938, photo of type (Pupulin *et al.* 2022)].
VOUCHER: Colombia, *Duque 1664* (JAUM).
- Stelis tortilis*** (Luer & R.Escobar) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 267. 2001. *Effusiella tortilis* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 112: 107. 2007. *Pleurothallis tortilis* Luer & R.Escobar, *Orquideología* 14(2): 180. 1981. *Specklinia tortilis* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 264. 2004.
ILLUSTRATION: Luer & Escobar 1981a, p. 181; Luer 2000a, f. 40 (p. 99).
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Luer et al. 3021* (holotype, SEL; isotype JAUM).
- Stelis torulosa*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 221. 2016.
ILLUSTRATION: Luer 2016b, f. 48.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 11390* (holotype, MO).
- Stelis triangulisejala*** C.Schweinf., *Bot. Mus. Leaf.* 15: 22. 1951.
DISTRIBUTION: COL PER.
TYPE: Peru, *Stork & Horton 10425* (holotype, F-1051159).
VOUCHER: Colombia, *Ortiz 403* (HPUJ).
- Stelis trichorrhachis*** Rchb.f., *Bonplandia* (Hannover) 3: 71. 1855.
ILLUSTRATION: Luer 2009a, f. 416.
DISTRIBUTION: COL ECU VEN.
TYPE: Colombia, *Schlim 168* (holotype, W; isotypes, BR, G, K).
- Stelis tridactylon*** Luer, *Selbyana* 5(2): 193. 1979.
ILLUSTRATION: Luer 2009a, f. 417.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer et al. 622* (holotype, SEL; isotypes: AMES, K).
VOUCHER: Colombia, *Duque 1143* (JAUM).
- Stelis tridentata*** Lindl., *Fol. Orchid. ~Stelis~* (8): 6. 1852–1855 [1859].
ILLUSTRATION: Barringer 1986, f. 17; Luer 2002a, f. 56; Luer 2009a, f. 56a, f. 56b; Romero-González & Carnevalli 2000, p. 1052.
DISTRIBUTION: COL COS ECU PER VEN.
TYPE: Ecuador, *Jameson s.n.* (holotype, W).
VOUCHER: Colombia, *Duque 1489* (JAUM).
- Stelis trifoliacea*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 221. 2016.
ILLUSTRATION: Luer 2016b, f. 49.
DISTRIBUTION: *COL.
TYPE: Colombia, *de Wilde 3877* (holotype, MO).
- Stelis trilobata*** O.Duque, *Orquideología* 27(2): 165–166. 2010.
ILLUSTRATION: Duque 2010b, f. 29, ph. 78–79.
DISTRIBUTION: *COL.
TYPE: Colombia, *Duque 2452* (holotype, JAUM).
- Stelis trimera*** Luer, *Selbyana* 30(1): 24. 2009.
ILLUSTRATION: Luer 2009b, f. 46.
DISTRIBUTION: *COL.
TYPE: Colombia, *García-Barriga & Jaramillo s.n.* (holotype, US; isotype, COL).
- Stelis triplaris*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(1): 58. 2017.
ILLUSTRATION: Luer 2017a, f. 53.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 7665* (holotype, SEL).
- Stelis triplicata*** Lindl., *Fol. Orchid. ~Stelis~* 2, no. 5. 1852–1855 [1859].
ILLUSTRATION: Luer 2009a, f. 418, f. 418a; Luer 2018c, f. 53. Fig. 15H.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Jameson 1357* (holotype, K).
VOUCHER: Colombia, *Luer 2079* (SEL).
- Stelis trisetata*** Lindl., *Fol. Orchid. ~Stelis~* 17, no. 126. 1852–1855 [1859].
ILLUSTRATION: Luer 2009a, f. 312; Luer 2018b, f. 139, f. 140; Romero-González & Carnevalli 2000, p. 1053; Ortiz & Uribe 2007 (CD Edition).
DISTRIBUTION: BOL COL ECU PER VEN.
TYPE: Bolivia, *Bridges s.n.* (holotype, K).
VOUCHER: Colombia, *Ortiz 540* (HPUJ).
- Stelis tritriangulata*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(1): 58. 2017.
ILLUSTRATION: Luer 2017a, f. 54.
DISTRIBUTION: *COL.
TYPE: Colombia, *Pennell 7001* (holotype, AMES).
- Stelis trochophora*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(2): 223. 2016.
ILLUSTRATION: Luer 2016b, f. 50.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 7583* (holotype, SEL).

- Stelis trullilabia*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 88. 2016.
ILLUSTRATION: Luer 2016a, f. 46.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 3032* (holotype, SEL).
- Stelis truncata*** Lindl., Companion Bot. Mag. 2: 353. 1836.
ILLUSTRATION: Luer 2009a, f. 339, f. 339a; Luer 2018b, f. 142, f. 143; Luer 2018c, f. 54–56.
DISTRIBUTION: BOL COL ECU PER.
TYPE: Peru, *Mathews s.n.* (holotype, K).
VOUCHER: Colombia, *Lehmann 8214* (K, AMES, LE, NY).
- Stelis tryssa*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 88. 2016.
ILLUSTRATION: Luer 2016a, f. 47.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 8947* (holotype, SEL).
- Stelis tsubotae*** Luer & R.Escobar, Harvard Pap. Bot. 21(2): 223. 2016.
ILLUSTRATION: Luer 2016b, f. 51.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 16859* (holotype, MO).
- Stelis tunguraguae*** (F.Lehm. & Kraenzl.) Pridgeon & M.W.Chase, Lindleyana 16(4): 267. 2001. *Crocodelanthus tunguraguae* (F.Lehm. & Kraenzl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 257. 2004. *Pleurothallis tunguraguae* F.Lehm. & Kraenzl., Bot. Jahrb. Syst. 26: 439. 1899.
ILLUSTRATION: Luer 1998a, f. 63; Luer 1975f, f. 84.
DISTRIBUTION: BOL COL ECU PER.
TYPE: Ecuador, *Lehmann 4504* [holotype, B, destroyed, lectotype, K; isolectotypes, NY, US (Luer 1998a)].
VOUCHER: Colombia, *Escobar 8299* (MO).
- Stelis uberis*** Luer & R.Escobar, Harvard Pap. Bot. 21(2): 223. 2016.
ILLUSTRATION: Luer 2016b, f. 52.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer & Escobar 7582* (holotype, SEL).
- Stelis umbelliformis*** Hespénh. & Dressler, Orquideología 6(1): 21–23. 1971. *Apatostelis umbelliformis* (Hespénh. & Dressler) Garay, Bot. Mus. Leaf. 27(7–9): 199. 1979.
DISTRIBUTION: COL PAN.
TYPE: Panama, *Hespénheide & Dressler 2206* (holotype, US; isotypes, K, MO, PH).
VOUCHER: Colombia, *Benavides 4284* (PSO, MO).
- Stelis umbriae*** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 40. 1924.
DISTRIBUTION: *COL.
TYPE: Colombia, *Hopp 110* (holotype, B, destroyed).
Note: An obscure taxon for which no original material seems to be available. Explicitly excluded by Luer (2018a) from the synonymy of *S. chamaestetis*.
- Stelis uncinula*** Luer & Hirtz, Harvard Pap. Bot. 22(2): 108. 2017.
ILLUSTRATION: Luer 2017b, f. 47.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 2706* (holotype, SEL).
- Stelis uribeorum*** Luer & R.Escobar, Harvard Pap. Bot. 22(1): 60. 2017.
ILLUSTRATION: Luer 2017a, f. 55.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer 18423* (holotype, MO).
- Stelis validipes*** Luer & R.Escobar, Harvard Pap. Bot. 22(1): 60. 2017.
ILLUSTRATION: Luer 2017a, f. 56.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 7591* (holotype, SEL).
- Stelis vallecaucana*** (Kolan. & Szlach.) Karremans, Phytotaxa 496(2): 142. 2021. *Crocodelanthus vallecaucana* Kolan. & Szlach., Phytotaxa 496(2): 140. 2020.
ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 41.
DISTRIBUTION: *COL.
TYPE: Colombia, *Cuatrecasas 18180* (holotype, AMES-72611; drawing, UGDA).
- Stelis valvulosa*** Luer & R.Escobar, Harvard Pap. Bot. 21(1): 88. 2016.
ILLUSTRATION: Luer 2016a, f. 48.
DISTRIBUTION: *COL.
TYPE: Colombia, *Luer et al. 16822* (holotype, MO).
- Stelis vanescens*** Luer, Harvard Pap. Bot. 22(2): 108. 2017.
ILLUSTRATION: Luer 2017b, f. 48.
DISTRIBUTION: *COL.
TYPE: Colombia, *Silverstone-Sopkin 4150* (holotype, MO; isotype, CUVC).
- Stelis variola*** Luer & R.Escobar, Harvard Pap. Bot. 22(2): 110. 2017.

- ILLUSTRATION: Luer 2017b, f. 49.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 6825* (holotype, SEL).
- Stelis velaticaulis*** (Rchb.f.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 267. 2001. *Crocodelanthe velaticaulis* (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 257. 2004. *Humboldtia velaticaulis* (Rchb.f.) Kuntze, *Revis. Gen. Pl.* 2: 668. 1891. *Pleurothallis velaticaulis* Rchb.f., *Linnaea* 22: 824. 1849.
 ILLUSTRATION: Luer 1998a, f. 66, f. 67. Fig. 14C.
 DISTRIBUTION: COL COS ECU PAN PER VEN.
 TYPE: Venezuela, *Otto s.n.* (holotype, W).
 VOUCHER: Colombia, *Lozano 3495* (NY).
- Stelis velutina*** Lindl., *Fol. Orchid.* ~*Stelis*~ 17, no. 130. 1852–1855 [1859].
 ILLUSTRATION: Luer 2009a, f. 341.
 DISTRIBUTION: COL ECU PER.
 TYPE: Ecuador, *Jameson s.n.* (holotype, K).
 VOUCHER: Colombia, *Duque 1277* (JAUM).
- Stelis venezuelensis*** Foldats, *Acta Bot. Venez.* 3: 421. 1968.
 ILLUSTRATION: Foldats 1968, f. 39; Romero-González & Carnevalli 2000, p. 1054; Ortiz & Uribe 2007 (CD Edition).
 DISTRIBUTION: COL VEN.
 TYPE: Venezuela, *Steyermark & Dunsterville 98497* (holotype, VEN).
 VOUCHER: An illustration voucher of a Colombian specimen reproduced in Ortiz & Uribe 2007 (CD Edition).
- Stelis verecunda*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 158. 1924.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Schnitter s.n.* (holotype, B, destroyed).
 Note: An obscure taxon for which no original material seems to be available.
- Stelis verruculosa*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(2): 110. 2017.
 ILLUSTRATION: Luer 2017b, f. 50.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer & Escobar 6602* (holotype, SEL).
- Stelis vicaria*** Luer & R.Escobar, *Harvard Pap. Bot.* 23(1): 45. 2018.
 ILLUSTRATION: Luer 2018a, f. 44.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *St. John 20782* (holotype, AMES; isotype, US).
- Stelis vigax*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(1): 89. 2016.
 ILLUSTRATION: Luer 2016a, f. 49.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 8884* (holotype, SEL).
- Stelis vigoris*** Luer & R.Escobar, *Harvard Pap. Bot.* 22(2): 112. 2017.
 ILLUSTRATION: Luer 2017b, f. 51.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer & Escobar 6591* (holotype, SEL).
- Stelis violacea*** Garay, *Canad. J. Bot.* 34(3): 355. 1956.
 ILLUSTRATION: Garay 1956b, f. 2E; Romero-González & Carnevalli 2000, p. 1055.
 DISTRIBUTION: COL VEN.
 TYPE: Colombia, *von Sneidern 1096* (holotype, S; isotype, AMES-00271910).
- Stelis voluptuosa*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(1): 89. 2016.
 ILLUSTRATION: Luer 2016a, f. 50.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 8769* (holotype, SEL).
- Stelis vulcani*** Rchb.f., *Otia Bot. Hamburg.* 1: 19, no. 73. 1878.
 ILLUSTRATION: Luer 2009a, f. 342, f. 342a; Luer 2017a, f. 38; Romero-González & Carnevalli 2000, p. 1056.
 DISTRIBUTION: COL ECU PER VEN.
 TYPE: Ecuador, *Lehmann 84* (holotype: W-R-0020260).
 VOUCHER: Colombia, *Luer et al. 7655* (SEL).
- Stelis vulpecula*** Luer & R.Escobar, *Harvard Pap. Bot.* 21(1): 91. 2016.
 ILLUSTRATION: Luer 2016a, f. 51.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer et al. 17635* (holotype, MO).
- Stelis walteri*** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 41. 1924.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Hopp 170* (holotype, B, destroyed).
 Note: An obscure taxon for which no original material seems to be available.
- Stelis warszewiczii*** (Kolan. & Szlach.) Karremans, *Phytotaxa* 496(2): 142. 2021. *Crocodelanthe warszewiczii* Kolan. & Szlach., *Phyton. Annales Rei Botanicae* 60: 141–142. 2020.

ILLUSTRATION: Kolanowska & Szlachetko 2020b, f. 43.

DISTRIBUTION: *COL.

TYPE: Colombia, *Schneider 293* (holotype, AMES-116221; drawing, UGDA).

Stelis weddelliana (Rchb.f.) Pridgeon & M.W.Chase, *Lindleyana* 16(4): 267. 2001. *Crocodelanthe weddelliana* (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 103: 309. 2005. *Crocodelanthe weddelliana* (Rchb.f.) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 95: 257. 2004, *nom. inval.* *Humboldtia weddelliana* (Rchb.f.) Kuntze, *Revis. Gen. Pl.* 2: 668. 1891. *Pleurothallis weddelliana* Rchb.f., *Xenia Orchid.* 3: 24. 1878.

ILLUSTRATION: Luer 1998a, f. 70.

DISTRIBUTION: BOL COL.

TYPE: Bolivia, *Mandon 1128* (holotype, W-R-0053642; isotypes, AMES-00074861, AMES-00243103, BM-000082450, BR-0000006571894, BR0000006571818, G-00168969, GH-00243102, GOET-008643, GOET-008655, K-000584261, MPU-018059, NY-00009251, NY00009250, P-00489157, P-00489156, P-00489154, P-00489158, P-00489155, S-R-10422).

VOUCHER: Colombia, *Ewan 16515* (US).

Stelis wercklei Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 19: 20. 1923.

DISTRIBUTION: COL COS NIC.

TYPE: Costa Rica, *Wercklé 15* [holotype, B; destroyed; lectotype, AMES-30439, photo of type (Pupulin 2010)].

VOUCHER: Colombia, *Duque 1791* (JAUM).

Stelis wernerii Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 42. 1924.

DISTRIBUTION: *COL.

TYPE: Colombia, *Hopp 158* (holotype, B, destroyed). Note: An obscure taxon for which no original material seems to be available.

Stelis xenica Luer & R.Escobar, *Harvard Pap. Bot.* 21(1): 91. 2016.

ILLUSTRATION: Luer 2016a, f. 52.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 12485* (holotype, MO).

Stelis zelleri Luer, *Harvard Pap. Bot.* 22(2): 112. 2017.

ILLUSTRATION: Luer 2017b, f. 52.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 6504* (holotype, SEL).

STELLAMARIS Mel.Fernández & Bogarín

Stellamaris pergrata (Ames) Mel.Fernández & Bogarín, *Phytotaxa* 340(2): 131. 2018. *Pleurothallis pergrata* Ames, *Sched. Orch.* 4: 24–25. 1923. *Trichosalpinx pergrata* (Ames) Luer, *Phytologia* 54(5): 396. 1983. *Tubella pergrata* (Ames) Archila, *Revista Guatemal.* 3(1): 62. 2000 [2009]. *Tubella pergrata* (Ames) Archila, *Revista Guatemal.* 17(1): 55. 2014 [2015], *nom. superfl.*

ILLUSTRATION: Luer 1997, f. 69, f. 70; Luer 1975e, f. 92. Fig. 16G.

DISTRIBUTION: COL COS PAN.

TYPE: Costa Rica, *Lankester & Sancho 436* (holotype, AMES).

VOUCHER: Colombia, *Lehmann 8245* (K).

TEAGUEIA (Luer) Luer

Teagueia lehmannii Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 39: 142. 1991.

ILLUSTRATION: Luer 1991a, pl. 1 (p. 143).

DISTRIBUTION: *COL.

TYPE: Colombia, *Lehmann s.n.* (holotype, K, H.K, 136).

Teagueia phasmida (Luer & R.Escobar) O. Gruss & M. Wolff, *Orchid Atlas* 417. 2007. *Teagueia phasmida* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 112: 121. 2007. *nom. superfl.* *Platystele phasmida* Luer & R.Escobar, *Orquideología* 16(3): 42–45. 1986. *Teagueia phasmida* Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 39: 139. 1991. *nom. inval.*

ILLUSTRATION: Luer & Escobar 1986, p. 43; Luer 1990, pl. 49; Luer 1991d, f. 484.

DISTRIBUTION: *COL.

TYPE: Colombia, *Escobar et al. 3404* (holotype, MO).

Note: According to the protologue the holotype is at MO, but Luer (1990) states that the holotype is at JAUM and the MO specimen is an isotype.

Teagueia rex (Luer & R.Escobar) O. Gruss & M. Wolff, *Orchid Atlas* 417. 2007. *Platystele rex* Luer & R.Escobar, *Orquideología* 15(2–3): 140. 1982. *Teagueia rex* (Luer & R.Escobar) Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 112: 121. 2007. *nom. superfl.* *Teagueia rex* Luer, *Monogr. Syst. Bot. Mis-*



FIGURE 14. A. *Stelis rodrigoii*. B. *S. gargantua*. C. *S. velaticaulis*. D. *S. tarantula*. E. *S. parvilabris*. F. *S. genychila*. G. *S. ejuncida*. H. *S. superbiens*. I. *S. dialissa*. J. *S. pachythrix*. K. *S. lanceolata*. L. *S. eublepharis*. Photographs by N. Gutiérrez (F, H, J, L), M. Rincón (C, E, G, I), S. Vieira-Uribe (B, D, K), and S. Mesa (A).



FIGURE 15. A. *Stelis ligulata*. B. *S. famelica*. C. *S. lynniana*. D. *S. bracteolata*. E. *S. liberalis*. F. *S. gemma*. G. *S. lentiginosa*. H. *S. triplicata*. I. *S. remulifera*. J. *S. rhomboidea*. K. *S. discolor*. L. *S. humidensis*. Photographs by N. Gutiérrez (B, H, K, L), M. Rincón (D, E, I, J), S. Vieira-Uribe (A, C), S. Moreno (G) and M. Ariza (F).

souri Bot. Gard. 39: 139. 1991. *nom. inval.*

ILLUSTRATION: Luer & Escobar 1982, p. 141; Luer 1990, pl. 59; Luer 1991d, f. 481; Karremans *et al.* 2016, f. 8f.

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 3133* (holotype, SEL; isotype, JAUM).

TRICHOSALPINX Luer

Trichosalpinx aestroychila Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 88: 112, f. 27. 2002.

ILLUSTRATION: Luer 2002a, f. 27 (p. 121).

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer 16908* (holotype, MO).

Trichosalpinx blaisdellii (S. Watson) Luer, Phytologia 54(5): 394. 1983. *Pleurothallis blaisdellii* S. Watson, Proc. Amer. Acad. Arts 23(2): 284–285. 1888.

ILLUSTRATION: Luer 1997, f. 2, f. 3, f.4.

DISTRIBUTION: BEL COL COS ELS GUA HON MEX NIC PAN.

TYPE: Mexico, *Liebmann 7307* (holotype, C).

VOUCHER: Colombia, *Gentry 9335* (COL).

Trichosalpinx ciliaris (Lindl.) Luer, Phytologia 54(5): 395. 1983. *Pleurothallis ciliaris* (Lindl.) L.O. Williams, *Caldasia* 1(5): 14. 1942. *Specklinia ciliaris* Lindl., Edwards's Bot. Reg. 24: Misc. 31. 1838.

ILLUSTRATION: Luer 1997, f. 6.

DISTRIBUTION: BEL COL COS GUA HON MEX NIC.

TYPE: Mexico, *Loddiges s.n.* (holotype, K).

VOUCHER: Colombia, *Kolanowska 141* (UGDA).

Trichosalpinx caudata Luer & R.Escobar, Monogr. Syst. Bot. Missouri Bot. Gard. 64: 20, f. 5. 1997.

ILLUSTRATION: Luer 1997, f. 5; Fernández *et al.* 2014, f. 13, f. 14l.

DISTRIBUTION: COL COS PAN.

TYPE: Colombia, *Luer 16907* (holotype, MO).

Trichosalpinx memor (Rchb.f.) Luer, Phytologia 54(5): 396. 1983. *Humboldtia memor* (Rchb.f.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Pleurothallis memor* Rchb.f., *Bonplandia* (Hannover) 4: 330. 1856.

ILLUSTRATION: Barringer 1986, f. 11; Luer 1997, f. 12, f. 13, f. 14; Stenzel 2007, f. 13; Fernández 2011, f. 5.

DISTRIBUTION: BOL COL COS CUB ECU GUA

MEX NIC PAN PER VEN.

TYPE: Colombia, *Forkel s.n.* (holotype, W-R-0020793/W-0053202).

Trichosalpinx orbicularis (Lindl.) Luer, Phytologia 54(5): 396. 1983. *Lepanthes orbiculata* Lindl. ex Rchb.f., *Xenia Orchid.* 1: 152. 1856. *Humboldtia orbicularis* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 668. 1891. *Pleurothallis orbicularis* (Lindl.) Lindl., Edwards's Bot. Reg. 28: Misc. 79. 1842. *Specklinia orbicularis* Lindl., Edwards's Bot. Reg. 24: Misc. 31. 1838.

ILLUSTRATION: Luer 1997, f. 16; Luer 1975b, f. 33. Fig. 16H.

DISTRIBUTION: BRA COL COS ECU FRE GUY L.A. PAN PER SUR VEN.

TYPE: Guyana, *Loddiges s.n.* (holotype, K).

VOUCHER: Colombia, *Arévalo 341* (COL).

Trichosalpinx semilunata (Luer) Luer, Phytologia 54(5): 397. 1983. *Pleurothallis semilunata* Luer, *Selbyana* 3: 184. 1976. *Tubella semilunata* (Luer) Archila, *Revista Guatemal.* 17(1): 56. 2014 [2015], *nom. superfl.* *Tubella semilunata* (Luer) Archila, *Revista Guatemal.* 3(1): 64. 2000 [2009].

ILLUSTRATION: Luer & Escobar 1984b, p. 181, p. 182; Luer 1997, f. 77.

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer et al. 523* (holotype, SEL).

VOUCHER: Colombia, *Luer et al. 9044* (holotype, SEL).

Note: This taxon is clearly not related to other *Trichosalpinx* species in the strict sense, and is more likely a relative of *Stellamaris*. However, without DNA data to confirm its phylogenetic placement, a transfer to any other genus is premature.

TRISETELLA Luer

Trisetella abbreviata Luer, Phytologia 47: 82. 1980.

ILLUSTRATION: Luer 1989, f. 1 (p. 77).

DISTRIBUTION: COL ECU.

TYPE: Ecuador, *Luer 2209* (holotype, SEL).

VOUCHER: Colombia, *Arévalo 923* (COL).

Trisetella escobarii Luer, *Lindleyana* 1(3): 188. 1986.

ILLUSTRATION: Luer 1989, f. 6 (p. 87).

DISTRIBUTION: *COL.

TYPE: Colombia, *Luer et al. 10324* (holotype, MO).

Trisetella gemmata (Rchb.f.) Luer, Phytologia 47(2):

57. 1980. *Masdevallia gemmata* Rchb.f., Gard. Chron. 19: 294. 1883. *Triaristella gemmata* (Rchb.f.) Luer, Selbyana 2(2–3): 205. 1978. *nom. illeg.* *Triaristellina gemmata* (Rchb.f.) Rauschert, Feddes Repert. 94(7–8): 469. 1983. *nom. superfl.*
ILLUSTRATION: Luer 1989, f. 8 (p. 91).
DISTRIBUTION: *COL.
TYPE: Colombia, *O'Brien s.n.* (holotype, W).
- Trisetella tenuissima*** (C.Schweinf.) Luer, Phytologia 47(2): 58. 1980. *Masdevallia tenuissima* C.Schweinf., Bot. Mus. Leaf. 4(7): 111. 1937. *Triaristella tenuissima* (C.Schweinf.) Luer, Selbyana 2(2–3): 206. 1978. *nom. illeg.* *Triaristellina tenuissima* (C.Schweinf.) Rauschert, Feddes Repert. 94(7–8): 469. 1983. *nom. superfl.*
ILLUSTRATION: Luer 1989, f. 17 (p. 109).
DISTRIBUTION: COL PAN.
TYPE: Panama, *Allen 587* (holotype, MO).
VOUCHER: Colombia, *Luer 13087* (MO).
- Trisetella triaristella*** (Rchb.f.) Luer, Phytologia 47(2): 58. 1980. *Masdevallia triaristella* Rchb.f., Gard. Chron., n.s. 6(138): 226. 1876. *Triaristellina triaristella* (Rchb.f.) Rauschert, Feddes Repert. 94(7–8): 469. 1983. *nom. superfl.*
ILLUSTRATION: Luer 1989, f. 18 (p. 111). f. 19 (p. 112); Williams & Williams 1894, p. 505.
DISTRIBUTION: COL COS ECU PAN.
TYPE: Costa Rica, *Endrés 566* (holotype, W).
VOUCHER: Colombia, *Fernández-Alonso 12369* (COL).
- Trisetella triglochis*** (Rchb.f.) Luer, Phytologia 47(2): 58. 1980. *Masdevallia triglochis* Rchb.f., Gard. Chron., n.s. 8(204): 648. 1877. *Triaristella triglochis* (Rchb.f.) Luer, Selbyana 2(2–3): 206. 1978. *nom. illeg.* *Triaristellina triglochis* (Rchb.f.) Rauschert, Feddes Repert. 94(7–8): 469. 1983. *nom. superfl.*
ILLUSTRATION: Luer 1989, f. 20–24 (p. 115–119); Baquero & Mogrovejo 2021, f. 4d.
DISTRIBUTION: BOL BRA COL COS ECU PAN PER VEN.
TYPE: Ecuador, *Lehmann 68* (holotype, W).
VOUCHER: Colombia, *Cogollo 3241* (FMB).
- Trisetella vittata*** (Luer) Luer, Phytologia 47(2): 58. 1980. *Masdevallia vittata* Luer, Phytologia 39: 233–234. 1978. *Triaristella vittata* (Luer) Luer, Selbyana 2(2–3): 206. 1978. *nom. illeg.* *Triaristellina vittata* (Luer) Rauschert, Feddes Repert. 94(7–8): 469. 1983. *nom. superfl.*
ILLUSTRATION: Luer 1989, f. 25 (p. 121); Baquero & Mogrovejo 2021, f. 4c.
DISTRIBUTION: COL ECU.
TYPE: Ecuador, *Luer 1756* (holotype, SEL).
VOUCHER: Colombia, *Vieira 112* (JAUM).
- ZOOTROPHION Luer
- Zootrophion aguirrei*** P.Ortiz, Orquideología 28(1): 11. 2011.
ILLUSTRATION: Ortiz 2011, p. 8, p. 14.
DISTRIBUTION: *COL.
TYPE: Colombia, *Ortiz 1374* (holotype, HPUJ).
Note: *Ortiz 1358* indicated as isotype, but is a paratype.
- Zootrophion alvaroi*** (Garay) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 215. 2004. *Cryptophoranthus alvaroi* Garay, Orquideología 5: 15. 1970.
ILLUSTRATION: Luer 2004, f. 1 (p. 228).
DISTRIBUTION: COL ECU.
TYPE: Colombia, *Escobar 372* (holotype, AMES).
- Zootrophion antioquianum*** Uribe Vélez & Sauleda, New World Orchid. Nomencl. Notes 64: 1. 2020.
ILLUSTRATION: Uribe-Velez & Sauleda 2020, p. 2, p. 3, p. 4(top).
DISTRIBUTION: *COL.
TYPE: Colombia, *Arrodeau s.n.* (holotype, HPUJ).
- Zootrophion argus*** (Kraenzl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 215. 2004. *Cryptophoranthus argus* Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 437–438. 1921.
ILLUSTRATION: Luer 2004, f. 2 (p. 228).
DISTRIBUTION: *COL.
TYPE: Colombia, *Schlim 762* [Lectotype, K; isotypes, W, NY (Luer 2004)].
- Zootrophion atropurpureum*** (Lindl.) Luer, Selbyana 7(1): 80. 1982. *Cryptophoranthus atropurpureus* (Lindl.) Rolfe, Gard. Chron. 2: 698. 1887. *Humboldtia atropurpurea* (Lindl.) Kuntze, Revis. Gen. Pl. 2: 667. 1891. *Pleurothallis atropurpurea* (Lindl.) Lindl., Edwards's Bot. Reg. 81. 1842. *Specklinia atropurpurea* Lindl., Edwards's Bot. Reg. 21: 1797. 1836.
ILLUSTRATION: Cogniaux 1896, f. 1 (p. 114); Luer 2004, f. 3 (p. 229); Rysy 2007, f. 1; Stenzel 2007, f.

- 16; Loefgren 1918, pl. XIXB; Misas Urreta 2005, p. 766, p. 767.
 DISTRIBUTION: BOL BRA COL CUB DOM ECU HAI JAM PER.
 TYPE: Jamaica, unknown collector [lectotype (selected here), K-000463225].
 VOUCHER: Colombia, *Misas Urreta 67a* (HPUJ).
- Zootrophion dayanum*** (Rchb.f.) Luer, Selbyana 7(1): 82. 1982. *Cryptophoranthus dayanus* (Rchb.f.) Rolfe, Gard. Chron. 3(2): 693, f. 134. 1887. *Masdevallia dayana* Rchb.f., Gard. Chron. 14: 295. 1880.
 ILLUSTRATION: Luer 2004, f. 5, f. 6 (p. 229); Rysy 2007, f. 2; Williams & Williams 1894, p. 487. Fig. 16K.
 DISTRIBUTION: BOL COL ECU PER VEN.
 TYPE: Colombia, *Day s.n.* (holotype, W; isotype, K).
- Zootrophion dodsonii*** (Luer) Luer, Selbyana 7(1): 82. 1982. *Cryptophoranthus dodsonii* Luer, Selbyana 5(2): 145. 1979.
 ILLUSTRATION: Luer 2004, f. 7 (p. 230).
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Gentry & Schupp 9202* (holotype, SEL).
 VOUCHER: Colombia, *Luer 2965* (SEL).
- Zootrophion endresianum*** (Kraenzl.) Luer, Selbyana 7(1): 82. 1982. *Cryptophoranthus endresianus* Kraenzl., Repert. Spec. Nov. Regni Veg. 17(492/503): 437. 1921.
 ILLUSTRATION: Luer 2004, f. 8 (p. 230); Rysy 2007, f. 3.
 DISTRIBUTION: COL COS ECU NIC.
 TYPE: Costa Rica, *Endrés s.n.* (holotype, K).
 VOUCHER: Colombia, *Luer 2350* (SEL).
- Zootrophion hypodiscus*** (Rchb.f.) Luer, Selbyana 7(1): 84. 1982. *Cryptophoranthus hypodiscus* (Rchb.f.) Rolfe, Gard. Chron. 2: 693. 1887. *Masdevallia hypodiscus* Rchb.f., Gard. Chron. 2: 234. 1878.
 ILLUSTRATION: Luer 2004, f. 11 (p. 231).
 DISTRIBUTION: COL ECU.
 TYPE: Colombia, *Lehmann s.n.* (holotype, W).
- Zootrophion ildephonsi*** P.Ortiz, Orquideología Supl. 1: 37. 2012.
 ILLUSTRATION: Ortiz 2012, f. 32–34.
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Ortiz 1344* (holotype, HPUJ, lost).
- Zootrophion lappaceum*** Luer & R.Escobar, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 223. 2004.
 ILLUSTRATION: Luer 2004, f. 12 (p. 231).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Luer 14289* (holotype, MO).
- Zootrophion machaqway*** A.Doucette & J. Portilla, Phytotaxa 257(3): 244. 2016.
 ILLUSTRATION: Doucette *et al.* 2016b, f. 10, f. 11h; Uribe-Velez & Sauleda 2023, p. 2–6.
 DISTRIBUTION: COL ECU.
 TYPE: Ecuador, *Doucette 315* (holotype, WIS).
 VOUCHER: Colombia, *Aguirre s.n.* (HPUJ).
 Note: This species is unusual among *Zootrophion* species for its prolific habit. It was described from cultivation in Ecuador and the Colombian specimen was also prepared from cultivated material (under the name *Z. griffin* Luer in Uribe-Vélez & Sauleda 2023).
- Zootrophion oblongifolium*** (Rolfe) Luer, Selbyana 7(1): 84. 1982. *Cryptophoranthus oblongifolius* Rolfe, Bull. Misc. Inform. Kew 1895: 5. 1895.
 ILLUSTRATION: Luer 2004, f. 14 (p. 231); Rysy 2007, f. 6. Fig. 16L.
 DISTRIBUTION: COL ECU PER.
 TYPE: Colombia, *Charlesworth s.n.* (holotype, K; isotype, BR).
- Zootrophion trivalve*** (Luer & R.Escobar) Luer, Selbyana 7: 84. 1982. *Cryptophoranthus trivalvis* Luer & R.Escobar, Orquideología 14: 118. 1981.
 ILLUSTRATION: Luer & Escobar 1981a, p. 119; Luer 2004, f. 15 (p. 232).
 DISTRIBUTION: *COL.
 TYPE: Colombia, *Escobar 1658* (holotype, JAUM; isotype, SEL).
- Zootrophion ximenae*** (Luer & Hirtz) Pfahl, Internet Orchid Sp. Photo Encycl. Nomencl. Notes 3(2): 1. 2014. *Epibator ximenae* Luer & Hirtz, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 204. 2004.
 ILLUSTRATION: Luer 2004, f. 3 (p. 204); Sauleda *et al.* 2023, p. 4–7.
 DISTRIBUTION: COL? ECU.
 TYPE: Ecuador, *Hirtz & Hirtz 6294* (holotype, MO).
 VOUCHER: Colombia, *Mejia s.n.* (HPUJ)
 Note: The Colombian voucher for this taxon comes from cultivated material described under the name *Epibator mejia* Sauleda, Uribe Vélez & Szlach. of uncertain provenance (Sauleda *et al.* 2023). Additionally, no such specimen is physically present at HPUJ as indicated by the authors.



FIGURE 16. A. *Scaphosepalum grande*. B. *S. odontochilum*. C. *S. cf. swertiifolium*. D. *Specklinia calderae*. E. *S. calyptrastele*. F. *S. cf. picta*. G. *Stellamaris pergrata*. H. *Trichosalpinx orbicularis*. I. *Trisetella triglochis*. J. *T. vittata*. K. *Zootrophion dayanum*. L. *Z. oblongifolium*. Photographs by S. Moreno (A–C, F, G), S. Mesa (D, E), S. Vieira-Uribe (I, J), and Robinson Galindo (H, K, L).

ADDITIONAL TAXA BASED ON COLOMBIAN TYPES

- Acianthera adeodata* P.Ortiz, O.Pérez & E.Parra, Orquideología 27(1): 56–59. 2010.
Accepted Name: ***Acianthera madisonii***.
TYPE: Colombia, Pérez-Escobar *et al.* 512 (holotype, VALLE).
Note: The large leaf decurrent on the ramicaul, short raceme emerging above the base of the leaf, the gapping, fleshy flowers, with a yellow dorsal sepal, and purple lateral sepals are consistent with *A. madisonii*, a rare species described from Ecuador.
- Acianthera caucanensis* Uribe Vélez, Saulea & Szlach., New World Orchid. Nomencl. Notes 111: 1. 2022.
Accepted Name: ***Pleurothallis macrophylla***.
TYPE: Colombia, Aguirre *s.n.* (holotype, HPUJ).
Note: Inexplicably described in the distantly related genus *Acianthera*, this taxon is inseparable from *P. macrophylla*. The type specimen is said to be conserved at “HJPU”, which we assume refers to HPUJ. However, like other taxa described in this journal, the holotype does not seem to have been deposited.
- Acianthera ortizii* Uribe Vélez, Saulea & Szlach., New World Orchid. Nomencl. Notes 110: 1–2. 2022.
Accepted Name: ***Pleurothallis macrophylla***.
TYPE: Colombia, Aguirre *s.n.* (holotype, HPUJ).
Note: Inexplicably described in the distantly related genus *Acianthera*, this taxon is inseparable from *P. macrophylla*. The type specimen is said to be conserved at “HJPU”, which we assume refers to HPUJ. However, like other taxa described in this journal, the holotype does not seem to have been deposited.
- Acostaea glandulata* P.Ortiz, Orquideología 15(2,3): 166–168. 1982.
Accepted Name: ***Specklinia colombiana***.
TYPE: Colombia, Ortiz 892 (holotype, COL).
- Barbosella caespitifica* (F.Lehm. & Kraenzl.) Garay, Orquideología 9(2): 114. 1974.
Accepted Name: ***Barbosella prorepens***.
TYPE: Colombia, Lehmann 3305 (holotype, lost?).
- Barbosella longipes* Schltr., Repert. Spec. Nov. Regni Veg. 7: 118. 1920.
Accepted Name: ***Barbosella cucullata***.
TYPE: Colombia, Madero *s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter’s floral analysis published by Mansfeld (1929: Pl. 41, No. 158). Colombia, Lehmann H.K.313 [neotype, K (Luer 2000a), here rejected and selected as epitype].
- Brachionidium floribundum* Garay, Canad. J. Bot. 34: 736. 1956.
Accepted Name: ***Brachionidium tuberculatum***.
TYPE: Colombia, Renz 5253 (holotype, AMES; isotype, herb. Renz).
- Crocodelanthe asymmetrica* Kolan. & Szlach., Phyt. Annales Rei Botanicae 60: 108–109. 2020.
Accepted Name: ***Pleurothallis xanthochlora***.
TYPE: Colombia, Garay *et al.* 223 (holotype, AMES; drawing, UGDA).
Note: Described as a unique species of *Crocodelanthe*, this taxon clearly belongs in *Pleurothallis* instead (Karremans *et al.* 2021) and, despite the claims of having asymmetric flower, is referable to *P. xanthochlora*.
- Crocodelanthe elegans* (Kunth) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 256. 2004.
Accepted Name: ***Stelis roseopunctata***.
TYPE: Colombia, Humboldt & Bonpland *s.n.* (holotype, P; fragment, W).
- Crocodelanthe velaticauloides* Kolan. & Szlach., Phyt. Annales Rei Botanicae 60: 140–141. 2020.
Accepted Name: ***Stelis pennelliana***.
TYPE: Colombia, Pennell 2043 (holotype, AMES; drawing, UGDA).
Note: The holotype of this taxon is an isotype of *S. pennelliana*, a species that was inexplicably not even mentioned despite being conspecific.
- Cryptophoranthus auriculatus* Garay, Orquideología 5(1): 16. 1970.
Accepted Name: ***Ophidion pleurothallopsis***.
TYPE: Colombia, Escobar 399 (holotype, AMES).
- Cryptophoranthus lehmannii* Rolfe, Bull. Misc. Inform. Kew 26. 1922, *nom. superfl.*
Accepted Name: ***Zootrophion dayanum***.
TYPE: Colombia, Lehmann *s.n.* (holotype, K).
Note: This is a superfluous name because all requirements for valid publication were met before.
- Cryptophoranthus lehmannii* Rolfe, Orchid Rev. 11: 303. 1903.
Accepted Name: ***Zootrophion dayanum***.

TYPE: Colombia, *Lehmann s.n.* [lectotype (selected here), K-000573922; isolectotypes, K-000573923, K-000573924. K-000573925, K-000573926, K-000573927].

Note: Even though Rolfe probably had no intent to formally publish this taxon here and tried to do so later, the fact is that all requirements for valid publication were met here. Several specimens were made overtime of one or several cultivated plants and the type is a mixed collection.

Cryptophoranthus moorei Rolfe, Bull. Misc. Inform. Kew 30. 1906, *nom. superfl.*

Accepted Name: ***Zootrophion hypodiscus***.

ILLUSTRATION: Luer 2004, f. 11 (p. 231).

TYPE: Colombia, unknown (holotype, K).

Note: This is a superfluous name because all requirements for valid publication were met before.

Cryptophoranthus moorei Rolfe, Orchid Rev. 11: 304. 1903.

Accepted Name: ***Zootrophion hypodiscus***.

TYPE: Colombia, unknown [lectotype (selected here), K-000573984; isolectotypes, K-000573985, K-000573986].

Note: Even though Rolfe probably had no intent to formally publish this taxon here and attempt to do so later, the fact is that all requirements for valid publication were met here. Several specimens were made overtime of one or several cultivated plants and the type is a mixed collection.

Dendrobium elegans Kunth, Nov. Gen. Sp. 1: 358. 1816.

Accepted Name: ***Stelis roseopunctata***.

TYPE: Colombia, *Humboldt & Bonpland s.n.* (holotype, P; fragment, W).

Draconanthes trachysepala (Schltr.) Kolan., S.Nowak & Szlach., Turkish J. Bot. 44: 199. 2020.

Accepted Name: ***Draconanthes aberrans***.

TYPE: Colombia, *Lehmann 6910* [holotype, B, destroyed; lectotype, Schlechter's floral analysis published by Mansfeld (1929: Pl. 34, No. 130)]. Colombia, *Luer 12520* [epitype, MO (Luer 1996b)].

Note: In a rather unconvincing treatment of the *D. aberrans* complex (Kolanowska *et al.* 2020b), the authors separate several taxa on the basis of slight differences in illustrations and photographs by several different authors, some very precise, others quite rudimentary, with no regards to properly docu-

menting extant natural populations and assessing variation. Some of the illustrations published by the authors are mislabeled, compounding the confusion.

Dracula callifera (Schltr.) Luer, Selbyana 2: 194. 1978.

Accepted Name: ***Dracula houtteana***.

TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 25, No. 95)].

Dracula carderi (Rchb.f.) Luer, Selbyana 2: 194. 1978.

Accepted Name: ***Dracula inaequalis***.

TYPE: Colombia, *Carder s.n.* (holotype, W).

Dracula carderiopsis (F.Lehm. & Kraenzl.) Luer, Selbyana 2: 194. 1978.

Accepted Name: ***Dracula houtteana***.

TYPE: Colombia, *Lehmann 2335* [lectotype, G-00168644; isolectotypes, BR-0000009973237, W].

Dracula lactea (Kraenzl.) Luer, Selbyana 2: 195. 1978.

Accepted Name: ***Dracula velutina***.

TYPE: Colombia, *Kalbreyer 1545* (holotype, B, destroyed).

Dracula lowii (Rolfe) Luer, Selbyana 2: 196. 1978.

Accepted Name: ***Dracula spectrum***.

TYPE: Colombia, *Courtauld s.n.* (holotype, K).

Dracula medellinensis (Kraenzl.) Luer, Selbyana 2: 196. 1978.

Accepted Name: ***Dracula radiosa***.

TYPE: Colombia, *Boxal s.n.* (holotype, W).

Dracula microglochis (Rchb.f.) Luer, Selbyana 2: 196. 1978.

Accepted Name: ***Dracula velutina***.

TYPE: Colombia, *Lehmann 3217* (holotype, W).

Dracula mosquerae (F.Lehm. & Kraenzl.) Luer, Selbyana 2: 196. 1978.

Accepted Name: ***Dracula houtteana***.

TYPE: Colombia, *Lehmann 7001* [lectotype, K-001457838]. Colombia, *Lehmann 4302* (syn-type).

Dracula platycrater (Rchb.f.) Luer, Selbyana 2: 196. 1978.

Accepted Name: ***Dracula spectrum***.

TYPE: Colombia, *Lehmann 3363* (holotype, W; iso-types, BR, BM, G).

Dracula quilichaoënsis (F.Lehm. & Kraenzl.) Luer, Selbyana 2(2/3): 197. 1978.

- Accepted Name: *Dracula trichroma*.
 TYPE: Colombia, *Lehmann 2667* (holotype, K; isotype, BM, BR, G, MO, HBG-501778).
- Dracula senilis* (Rchb.f.) Luer, *Selbyana* 2: 197. 1978.
 Accepted Name: *Dracula chimaera*.
 TYPE: Colombia, *Low & Co s.n.* (holotype, K, W).
- Dracula iricolor* (Rchb.f.) Luer & R.Escobar, *Selbyana* 7: 65. 1982, sphalm.
 Accepted Name: *Dracula trichroma*.
 TYPE: Colombia, *Roetzl s.n.* (holotype, W).
 Note: This is a misspelling of the illegitimate name *Dracula tricolor* (see Karremans *et al.* 2019).
- Dracula trinema* (Rchb.f.) Luer, *Selbyana* 2: 198. 1978.
 Accepted Name: *Dracula velutina*.
 TYPE: Colombia, *Lehmann s.n.* (holotype, W).
- Dracula vagabunda* Luer & R.Escobar, *Orquideología* 15(1): 35–39.
 Accepted Name: *Dracula pusilla*.
 TYPE: Colombia? [Uncertain origin], *Escobar 1755* (holotype, JAUM; isotype, SEL).
 Note: The type was initially assigned with doubt to Colombia, this taxon was later expressly excluded from the country by Luer (1993).
- Dryadella misasii* Luer & R.Escobar, *Orquideología* 13(2): 141–145. 1979.
 Accepted Name: *Dryadella gnoma*.
 TYPE: Colombia, *Escobar 1451* (holotype, JAUM).
- Dryadella popayanensis* (F.Lehm. & Kraenzl.) Luer, *Selbyana* 2: 209. 1978.
 Accepted Name: *Dryadella simula*.
 TYPE: Colombia, *Lehmann 184* (holotype, AMES; isotypes, G, K, NY, RJ, W).
- Elongatia jimii* (Luer) Luer, *Harvard Pap. Bot.* 17(2): 368. 2012, *nom. inval.*
 Accepted Name: *Pleurothallis lueriana*.
 TYPE: Colombia, *Luer 20126* (holotype, MO).
- Epibator mejia* Sauleda, Uribe Vélez & Szlach., *New World Orchid. Nomencl. Notes* 117: 2. 2023.
 Accepted Name: *Zootrophion ximena*.
 TYPE: Colombia? [uncertain origin], *Mejia s.n.* (holotype, HPUJ).
- Lepanthes arethusa* Luer & R.Escobar, *Orquideología* 21(2): 135–137. 1999.
 Accepted Name: *Lepanthes venusta*.
 TYPE: Colombia, *Luer et al. 17633* (holotype, MO).
- Lepanthes auspicata* Luer & R.Escobar, *Orquideología* 21(2): 138–140. 1999.
 Accepted Name: *Lepanthes satyrica*.
 TYPE: Colombia, *Silverstone-Sopkin et al. 2909* (holotype, CUVC; isotype, MO).
- Lepanthes bifurcata* Luer & R.Escobar, *Orquideología* 21(2): 140–142. 1999.
 Accepted Name: *Lepanthes georgii*.
 TYPE: Colombia, *Luer 16639* (holotype, MO).
 Note: Based on the same type number as *L. georgii* but strictly speaking not illegitimate because the holotype of the first is an isotype of the latter.
- Lepanthes caetanoae* O.Pérez, E.Parra & Kolan., *Orquideología* 27: 47. 2010.
 Accepted Name: *Lepanthes declivis*.
 TYPE: Colombia, *Pérez et al. 512* (holotype, VALLE).
- Lepanthes caucana* Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 159. 1924, *nom. inval.*
 Accepted Name: *Lepanthes tracheia*.
 TYPE: Colombia, *Lehmann 3562* [holotype, B. destroyed; lectotype (selected here), BM-000082181; isolectotype, W-R-0054518].
- Lepanthes dapaënsis* P.Ortiz, O.Pérez & E.Parra, *Orquideología* 28(1): 23. 2011.
 Accepted Name: *Lepanthes tomentosa*.
 TYPE: Colombia, *Pérez & Parra 751* (holotype, CUVC).
- Lepanthes darienensis* Sauleda & Uribe Vélez, *New World Orchid. Nomencl. Notes* 92: 1. 2020, *nom. inval.*
 Accepted Name: *Lepanthes sanjuanensis*.
 Note: This taxon is most probably a synonym of *L. sanjuanensis*, and was described without designating a type specimen. Mere citation of a locality and herbarium does not fulfill the requirement for valid publication.
- Lepanthes dasyphylla* Rchb.f., *Flora* 69: 557. 1886.
 Accepted Name: *Andinia pilosella*.
 TYPE: Colombia, *Lehmann 3368* [lectotype (selected here), W-R-0014040; type illustr., W-R-0054559].
- Lepanthes elizabethiae* O.Pérez, Kolan. & E.Parra, *Phytotaxa* 79(2): 58. 2013.
 Accepted Name: *Lepanthes lycocephala*.
 TYPE: Colombia, *Pérez et al. 999* (holotype, CUVC).
 Note: The description and accompanying illustration

- tion of this taxon correspond very well with Luer's *L. lycocephala* (Luer 1996b, Luer & Thoele 2012a).
- Lepanthes guaduasensis* Luer & R.Escobar, *Orquideología* 21(2): 145–147. 1999.
Accepted Name: ***Lepanthes macrostylis***.
TYPE: Colombia, *Escobar 5242* (holotype, MO).
- Lepanthes hispida* Luer & R.Escobar, *Orquideología* 16(2): 146. 1984.
Accepted Name: ***Lepanthes dunstervilleorum***.
TYPE: Colombia, *Luer et al. 7503* (holotype, SEL).
- Lepanthes janus* Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 54(6): 730–732. 1985.
Accepted Name: ***Lepanthes norae***.
TYPE: Colombia, *Luer et al. 10283* (holotype, MO).
- Lepanthes ospinae* Garay, *Orquideología* 4: 15, 84. 1969.
Accepted Name: ***Andinia nummularia***.
TYPE: Colombia, *Ospina 102a* (holotype, AMES).
- Lepanthes palmae* Kolan., Szlach. & Medina Tr., *Ann. Bot. Fenn.* 59: 42. 2022.
Accepted Name: ***Lepanthes caudata***.
TYPE: Colombia, *Suarez et al. S19/27* (holotype, JAUM; isotype JAUM).
Note: The description and accompanying photographs of this taxon correspond very well with *L. caudata* (Luer 1996b), a species found in the Departments of Cauca, Nariño and Putumayo in southern Colombia that has been recorded to be variable both in shape and color of the flowers.
- Lepanthes palmaritoensis* Garay, *Canad. J. Bot.* 34: 251. 1956.
Accepted Name: ***Andinia pilosella***.
TYPE: Colombia, *Grant 9628* (holotype, US; isotypes, AMES, WIS).
- Lepanthes queremalensis* O.Pérez, Kolan. & Rinc.-Useche, *Syst. Bot.* 38(2): 316. 2013.
Accepted Name: ***Lepanthes ankistra***.
TYPE: Colombia, *Pérez et al. 1100* (holotype, CUVC).
Note: The crispate leaf margin and subfalcate, tailed, and acute petals, and cymbiform appendix of the lip with an opening at the apex which are diagnostic of this taxon correspond very well with *L. ankistra*.
- Lepanthes oteroi* Luer, *Orquideología* 22(1): 42–45. 2001.
Accepted Name: ***Lepanthes elata***.
TYPE: Colombia, *Otero 274* (holotype, CUVC; isotype, MO).
- Lepanthes peperomioides* Schltr., *Repert. Spec. Nov. Regni Veg.* 7: 97. 1920.
Accepted Name: ***Andinia pilosella***.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 33, No. 126)].
- Lepanthes porphyrea* Luer & R.Escobar, *Amer. Orchid Soc. Bull.* 53(9): 922. 1984.
Accepted Name: ***Lepanthes agglutinata***.
TYPE: Colombia, *Luer et al. 10071* (holotype, MO; isotype, SEL).
- Lepanthes scopulifera* Luer, *Revista Soc. Boliv. Bot.* 4(1): 9. 2003, *nom. illeg.*
Accepted Name: ***Lepanthes penicillifera***.
TYPE: Colombia, *Niessen & Uribe 036A* (holotype, MO).
- Lepanthes torquipetala* Szlach. & Archila, *Ann. Bot. Fenn.* 56: 232. 2019.
Accepted Name: ***Lepanthes cyrtostele***.
TYPE: Colombia, *Cuatrecasas 20051B* (holotype, COL; isotypes, COL, UGDA).
Note: This taxon is based solely on an herbarium specimen rehydrated and drawn by one person and described by others based only on that illustration. The extremely unusual petal morphology is therefore more likely a misinterpretation by the illustrator than something actually occurring in nature.
- Lepanthes trachysepala* Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 7: 100. 1920.
Accepted Name: ***Draconanthes aberrans***.
TYPE: Colombia, *Lehmann 6910* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 34, No. 130)]. Colombia, *Luer 12520* [neotype, MO (Luer 1996b), here rejected and selected as epitype].
Note: In a rather unconvincing treatment of the *D. aberrans* complex (Kolanowska *et al.* 2020b), the authors separate several taxa on the basis of slight differences in illustrations and photographs by several different authors, some very precise, others quite rudimentary, with no regards to properly documenting extant natural populations and assessing

variation. Some of the illustrations published by the authors are mislabeled, compounding the confusion. We follow Pupulin *et al.* (2022) in recognizing Schlechter's floral analyses reproduced by Mansfeld as original material and therefore reject Luer's neotype in favor of a lectotype.

Lepanthes tricuspis Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 101. 1920.

Accepted Name: *Lepanthes mucronata*.

TYPE: Colombia, *Lehmann 4551* [holotype, B, destroyed; lectotype (selected here), K-000584318; isolectotypes, K-000584319, AMES-00100715, GH-00100716, MO-1106490].

Lothiana bilabata Kraenzl., Repert. Spec. Nov. Regni Veg. Beih. 34: 203. 1925.

Accepted Name: *Masdevallia platyglossa*.

TYPE: Colombia, *Lehmann 3761* (holotype, G).

Masdevallia affinis Lindl., Orchid. Linden. 5. 1846.

Accepted Name: *Masdevallia laevis*.

TYPE: Colombia, *Linden 1273* (holotype, K-L; isotypes, BR-0000006570439, G-00168825, W-R-39210).

Masdevallia affinis subsp. *maculigera* (Schltr.) Luer, Lindleyana 3: 17. 1988.

Accepted Name: *Masdevallia laevis*.

TYPE: Colombia, *Hopp 168* (holotype, B, destroyed). Colombia, Luer *et al.* 12551 (neotype, MO).

Masdevallia affinis subsp. *petiolaris* (Schltr.) Luer, Lindleyana 3: 17. 1988.

Accepted Name: *Masdevallia laevis*.

TYPE: Colombia, *Madero s.n.* (holotype, B, destroyed).

Masdevallia antioquiensis F.Lehm. & Kraenzl. ex Kraenzl., Bot. Jahrb. Syst. 26: 456. 1898.

Accepted Name: *Masdevallia molossus*.

TYPE: Colombia, *Lehmann 7227* (holotype, K-000077750; isotypes, HBG-501770, LE-00006496).

Masdevallia asperrima Kraenzl., Notizbl. Bot. Gart. Berlin-Dahlem 8: 133. 1922.

Accepted Name: *Masdevallia melanoxantha*.

TYPE: Colombia, *Kalbreyer 757* (holotype, B, destroyed).

Masdevallia atrovioleacea Kraenzl., Notizbl. Bot. Gart. Berlin-Dahlem 8: 130. 1922.

Accepted Name: *Masdevallia mooreana*.

TYPE: Colombia, *Kalbreyer 1083* (holotype, B,

destroyed). Colombia, Luer *et al.* 10198 [neotype, MO (Luer 2000c)].

Masdevallia auropurpurea Rchb.f. & Warsz., Bonplandia (Hannover) 2: 115. 1854.

Accepted Name: *Masdevallia bicolor*.

TYPE: Colombia, *Warszewicz s.n.* (holotype, W-R-47222).

Masdevallia bathyschista Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 76. 1920.

Accepted Name: *Masdevallia fasciata*.

TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 25, No. 94)].

Masdevallia burfordiensis O'Brien, Gard. Chron. ser. 3, 33: 99–100. 1903.

Accepted Name: *Masdevallia angulata*.

TYPE: Ecuador, *Lehmann s.n.* (holotype, K-000077818).

Masdevallia backhousiana Rchb.f., Gard. Chron. 1: 716. 1879.

Accepted Name: *Dracula chimaera*.

TYPE: Colombia, *Backhouse s.n.* (holotypes, K, W).

Masdevallia bilabata (Kraenzl.) Garay, Orquideología 5: 80. 1970.

Accepted Name: *Masdevallia platyglossa*.

TYPE: Colombia, *Lehmann 3761* (holotype, G).

Masdevallia callifera Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 77. 1920.

Accepted Name: *Dracula houtteana*.

TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 25, No. 95)].

Masdevallia calopteroarpa Rchb.f., Flora 69: 560. 1886.

Accepted Name: *Masdevallia amanda*.

TYPE: Colombia (holotype, W).

Masdevallia calyprata Kraenzl., Notizbl. Bot. Gart. Berlin-Dahlem 1: 83. 1895.

Accepted Name: *Masdevallia corniculata*.

TYPE: Colombia (holotype, B, destroyed).

Masdevallia campyloglossa subsp. *ortegesiana* Luer, Lindleyana 3: 21. 1988.

Accepted Name: *Masdevallia campyloglossa*.

TYPE: Colombia, *Ortgies s.n.* (holotype, W-R-39109).

- Masdevallia carderi* Rchb.f., Gard. Chron. 1: 784. 1883.
Accepted Name: ***Dracula inaequalis***.
TYPE: Colombia, *Carder s.n.* (holotype, W).
- Masdevallia carderi* var. *mosquerae* F.Lehm. & Kraenzl., Repert. Spec. Nov. Regni Veg. Beih. 34: 138. 1925.
Accepted Name: ***Dracula houtteana***.
TYPE: Colombia, *Lehmann 7001* [lectotype (selected here), K-001457838]. Colombia, *Lehmann 4302* (syntype).
- Masdevallia carderiopsis* Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 422. 1921.
Accepted Name: ***Dracula houtteana***.
TYPE: Colombia, *Lehmann 2335* [lectotype (selected here), G-00168644; isolectotypes, BR-0000009973237, W (not seen)].
- Masdevallia casta* Kraenzl., Notizbl. Bot. Gart. Berlin-Dahlem 8: 128. 1922.
Accepted Name: ***Masdevallia tubulosa***.
TYPE: Colombia, *Kalbreyer 1176* (holotype, B, destroyed).
- Masdevallia chlorotica* Kraenzl., Bull. Misc. Inform. Kew 107. 1925.
Accepted Name: ***Masdevallia laevis***.
TYPE: Colombia, *Lehmann 8506* (holotype, K-000077770; isotypes, AMES-00101223, G-00168819, HBG-501772, NY-00009050, W-R-7962).
- Masdevallia confusa* Kraenzl., Repert. Spec. Nov. Regni Veg. Beih. 34: 161. 1925.
Accepted Name: ***Masdevallia laevis***.
TYPE: Colombia, *Lehmann 522* (holotype, W; isotype, G).
- Masdevallia corniculata* var. *inflata* (Rchb.f.) H.J.Veitch, Man. Orchid. Pl. 5: 37. 1889.
Accepted Name: ***Masdevallia corniculata***.
TYPE: Colombia, *Bull s.n.* (holotype, W).
- Masdevallia chrysonera* F.Lehm. & Kraenzl., Bot. Jahrb. Syst. 26: 453. 1898.
Accepted Name: ***Masdevallia uncifera***.
TYPE: Colombia, *Lehmann 6753* [lectotype (selected here), K-000077774, excluding the illustration and far left plant element; isolectotypes, AMES-00101227, LE-00006498, NY-00009051].
Note: Luer (2001a) selected a specimen at K as lectotype without further specification. Two sheets bear tickets with the name *M. chrysonera* in Kraenzlin's writing, but neither is determined by him as type. K-000077774 has been determined as type by Garay. It is a mixed collection with some elements conforming with the protologue, selected here as lectotype. The second ticket is found on a type sheet of *M. pantherina*.
- Masdevallia chrysochaete* F.Lehm. & Kraenzl., Repert. Spec. Nov. Regni Veg. Beih. 34: 159. 1925.
Masdevallia chrysochaete F.Lehm., Bot. Jahrb. Syst. 26: 452. 1898, *nom. inval.*
Accepted Name: ***Masdevallia strumifera***.
TYPE: Colombia, *Lehmann 8868* [lectotype (selected here), K-000077803; isolectotype, AMES-00082880 (not seen)]. Colombia, *Lehmann 7034* (syntypes, AMES-00101226, LE-00001377).
- Masdevallia cryptocopis* Rchb.f. ex Kraenzl., Repert. Spec. Nov. Regni Veg. Beih. 34: 182. 1925.
Accepted Name: ***Masdevallia picturata***.
TYPE: Colombia, *Kalbreyer 602* (holotype, W-R-50757/W-0029150).
- Masdevallia cucutillensis* Kraenzl., Notizbl. Bot. Gart. Berlin-Dahlem 8: 127. 1922.
Accepted Name: ***Masdevallia caudata***.
TYPE: Colombia, *Kalbreyer 1156* (holotype, B, destroyed).
- Masdevallia deorsum* Rolfe, Orchid Rev. 8: 255. 1900.
Accepted Name: ***Masdevallia caesia***.
TYPE: Colombia, *Lehmann s.n.* (holotype, K).
Note: This appears not to have a Latin description anywhere.
- Masdevallia dermatantha* Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 426. 1921.
Accepted Name: ***Masdevallia campyloglossa***.
TYPE: Colombia (holotype, Woolward 1896, tab.12).
- Masdevallia echinocarpa* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 78–79. 1920.
Accepted Name: ***Diodonopsis erinacea***.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral. analysis published by Mansfeld (1929: Pl. 26, No. 97)].
- Masdevallia ellipes* Rchb.f., Linnaea 41: 11. 1877.
Accepted Name: ***Masdevallia peristeria***.
TYPE: Colombia, *Roezl s.n.* (holotype, W-R-38721).
- Masdevallia ephippium* Rchb.f., Bot. Zeitung (Berlin) 390. 1873.

Accepted name: *Masdevallia trochilus*.

TYPE: Colombia, *Wallis s.n.* [lectotype (selected here), W-R-47258; tracing, W-R-21218].

Note: Reichenbach did not cite a collector in the 1873 protologue, but listed materials of Wallis, Roezl and Patin a year later in *Xenia Orch.* The plate reproduced there is clearly based on the Roezl material, but the original protologue does not describe a leaf, which indeed is absent in the Wallis materials. Of the latter the author also prepared an unpublished sketch and therefore we believe it is more likely what he had originally at hand.

Masdevallia estradae var. *delicata* Rchb.f., Gard. Chron. n.s., 17: 525. 1882.

Accepted Name: *Masdevallia estradae*.

TYPE: Colombia, *Bull s.n.* [lectotype (selected here), W-R-50937, top illustr.].

Masdevallia fertilis Kraenzl., Kew Bull. 108. 1925.

Accepted Name: *Masdevallia campyloglossa*.

TYPE: Colombia, *Lehmann 7037* (holotype, K; isotypes, BR, HBG-501773).

Masdevallia fissa Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 429. 1921.

Accepted Name: *Masdevallia heteroptera*.

TYPE: Colombia, *Schmidtchen s.n.* (holotype, W-R-11189).

Masdevallia flaccida Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 425. 1921.

Accepted Name: *Masdevallia uncifera*.

TYPE: Colombia, *Lehmann s.n.* (holotype, W-R-83488).

Masdevallia frontinoensis Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 421. 1921.

Accepted Name: *Masdevallia herradurae*.

TYPE: Colombia, *Sander s.n.* (holotype, W-R-15806).

Masdevallia gomeziana F.Lehm. & Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 434. 1921.

Accepted Name: *Masdevallia laevis*.

TYPE: Colombia, *Lehmann 2700* [lectotype (selected here), W-R-80918; isolectotypes, AMES-00101254, BM-00084406, BM-00084408, G-00168800, K-001458733, LE-00011167, LE-00011165, NY-00009055].

Masdevallia gustavi Rchb.f., Gard. Chron. n.s., 3: 461. 1875.

Accepted Name: *Masdevallia amanda*.

TYPE: Colombia, *Shuttleworth sub Bull s.n.* [lectotype (selected here), W-R-47347, bottom specimens]. Colombia, *Wallis s.n.* (syntype, W-R-47347, flowers top right).

Note: Reichenbach clearly cites syntypes collected by Wallis and Shuttleworth, both of which are found on a single sheet at W-R.

Masdevallia haematosticta Rchb.f., Flora 69: 559. 1886.

Accepted Name: *Masdevallia peristeria*.

TYPE: Colombia, *Lehmann s.n.* [lectotype (selected here), W-R-38735, type illustr.].

Masdevallia harryana Rchb.f., Gard. Chron. 1421. 1871.

Accepted Name: *Masdevallia coccinea*.

TYPE: Colombia, *Veitch s.n.* (holotype, W).

Masdevallia harryana var. *carnea* Linden, Lindenia 8: 95, t. 382. 1893.

Accepted Name: *Masdevallia coccinea*.

Masdevallia harryana var. *illustris* Linden, Lindenia 8: 95, t. 382. 1893.

Accepted Name: *Masdevallia coccinea*.

Masdevallia harryana var. *kegeljani* Linden, Lindenia 8: 95, t. 382. 1893.

Accepted Name: *Masdevallia coccinea*.

Masdevallia harryana var. *laeta* Rchb.f., Gard. Chron. n.s., 11: 716. 1879.

Accepted Name: *Masdevallia coccinea*.

TYPE: Colombia, *Lawrence s.n.* (holotype, W-R-34073).

Masdevallia harryana var. *lilacina* Linden, Lindenia 8: 95, t. 382. 1893.

Accepted Name: *Masdevallia coccinea*.

Masdevallia harryana var. *reginae* Linden, Lindenia 8: 95, t. 382. 1893.

Accepted Name: *Masdevallia coccinea*.

Masdevallia heterotepala Rchb.f., Flora 69: 561. 1886.

Accepted Name: *Masdevallia campyloglossa*.

TYPE: Colombia, *Lehmann 3655* (holotype, W-R-14495).

Masdevallia hoppii Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 24. 1924.

Accepted Name: *Masdevallia pachyantha*.

TYPE: Colombia, *Hopp 141* (holotype, B, destroyed).

Masdevallia ignea var. *marschalliana* Rchb.f., Gard. Chron. 1872: 351. 1872.

- Accepted Name: *Masdevallia ignea*.
 TYPE: Colombia, *Marshall s.n.* [lectotype (selected here), W-R-47374, top right flower '72'].
- Masdevallia ignea* var. *stobartiana* Rchb.f., Gard. Chron. n.s., 15: 136. 1881.
 Accepted Name: *Masdevallia ignea*.
 TYPE: [Colombia] unknown collector [lectotype (selected here), W-R-31507].
- Masdevallia ignea* var. *thomasonii* Gentil, Pl. Cult. Serres Jard. Bot. Brux. 199. 1907.
 Accepted Name: *Masdevallia ignea*.
- Masdevallia inflata* Rchb.f., Gard. Chron. 2: 716. 1881.
 Accepted Name: *Masdevallia corniculata*.
 TYPE: Colombia, *Bull 674* (holotype, W-R-50957).
- Masdevallia kalbreyeri* Rchb.f. ex Kraenzl., Repert. Spec. Nov. Regni Veg. Beih. 34: 169. 1925.
 Accepted Name: *Masdevallia urceolaris*.
 TYPE: Colombia, *Kalbreyer 545* (holotype, W-R-52945).
- Masdevallia lactea* Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 420. 1921.
 Accepted Name: *Dracula velutina*.
 TYPE: Colombia, *Kalbreyer 1545* (holotype, B, destroyed).
- Masdevallia lepida* Rchb.f., Bonplandia (Hannover) 3: 69. 1855.
 Accepted Name: *Masdevallia laevis*.
 TYPE: Colombia, *Wagner 575* (holotype, W-R-38793; isotype, K-L).
- Masdevallia lindenii* André, Ill. Hort. 17: 226, t. 42. 1870.
 Accepted Name: *Masdevallia coccinea*.
 TYPE: Colombia, *Wallis s.n.*
- Masdevallia lindenii* var. *grandiflora* Linden, Lindsia 1: 73, t. 34. 1885.
 Accepted Name: *Masdevallia coccinea*.
- Masdevallia lindenii* var. *harryana* (Rchb.f.) André, Ill. Hort. t. 142. 1872.
 Accepted Name: *Masdevallia coccinea*.
 TYPE: Colombia, *Veitch s.n.* (holotype, W).
- Masdevallia lowii* Rolfe, Gard. Chron. 1: 416. 1890.
 Accepted Name: *Dracula spectrum*.
 TYPE: Colombia, *Courtauld s.n.* (holotype, K).
- Masdevallia macrochila* Regel, Trudy Imp. S.-Peterburgsk. Bot. Sada 11: 307. 1890.
 Accepted Name: *Dracula chestertonii*.
 TYPE: Colombia (holotype, LE).
- Masdevallia maculigera* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 24. 1924.
 Accepted Name: *Masdevallia laevis*.
 TYPE: Colombia, *Hopp 168* (holotype, B, destroyed). Colombia, Luer *et al.* 12551 (neotype, MO).
- Masdevallia maxillariiformis* F.Lehm. & Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 433. 1921.
 Accepted Name: *Masdevallia strumifera*.
 TYPE: Colombia, *Lehmann 2452* [lectotype (selected here), W-R-0080914; isolectotypes, BM-000082157, BR-0000006570170].
 Note: Contrary to other taxa described by Kraenzlin, none of these materials had been annotated as type.
- Masdevallia medellinensis* Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 420. 1921.
 Accepted Name: *Dracula radiosa*.
 TYPE: Colombia, *Boxal s.n.* (holotype, W).
- Masdevallia megaloglossa* Luer & R.Escobar, Orquideología 15(2-3): 134. 1982.
 Accepted Name: *Masdevallia Vargasii*.
 TYPE: Colombia, *Escobar 1984* (holotype, JAUM; isotype, SEL).
- Masdevallia metallica* F.Lehm. & Kraenzl., Repert. Spec. Nov. Regni Veg. Beih. 34: 70. 1925.
 Accepted Name: *Masdevallia caesia*.
 TYPE: Colombia, *Lehmann 2689* [lectotype (selected here), BM-000084429; isolectotype, BR-0000006570828].
- Masdevallia microglochis* Rchb.f., Flora 69: 558. 1886.
 Accepted Name: *Dracula velutina*.
 TYPE: Colombia, *Lehmann 3217* (holotype, W).
- Masdevallia militaris* Rchb.f. & Warsz., Bonplandia (Hannover) 2: 115. 1854.
 Accepted Name: *Masdevallia coccinea*.
 TYPE: Colombia, *Warszewicz s.n.* (holotype, W-R-0047333).
- Masdevallia muriculata* Kraenzl., Repert. Spec. Nov. Regni Veg. Beih. 34: 99-100. 1925.
 Accepted Name: *Diodonopsis pygmaea*.
 TYPE: Colombia, *Lehmann 2734* [lectotype (selected here), G-00168771].
- Masdevallia ocanensis* Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 429. 1921.
 Accepted Name: *Masdevallia picturata*.

- TYPE: Colombia, *Bruchmüller s.n.* (holotype, W-R-14996/W-0029146).
- Masdevallia ochthodes* Rchb.f., Bonplandia (Hannover) 3: 70. 1855.
Accepted Name: *Scaphosepalum verrucosum*.
TYPE: Colombia, *Wagener 564* (holotype, W).
- Masdevallia oligantha* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 79. 1920.
Accepted Name: *Masdevallia amanda*.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 26, No. 99)].
- Masdevallia olivacea* Kraenzl., Repert. Spec. Nov. Regni Veg. Beih. 34: 20. 1977.
Accepted Name: *Masdevallia angulifera*.
TYPE: Colombia, *Lehmann 3207* (holotype, G; isotypes, BM-000082135, BR-0000006570743).
- Masdevallia ortgiesiana* Rchb.f. ex Kraenzl., Repert. Spec. Nov. Regni Veg. Beih. 34: 74. 1925. *Masdevallia ortgiesiana* Rchb.f. ex Rolfe, Orchid Rev. 3: 48. 1895, *nom. nud.*
TYPE: Colombia, *Ortgies s.n.* [lectotype (selected here), W-R-39109, type illustr.]
Note: Kraenzlin validates Rchb.f.'s unpublished name. A lectotype is selected among the materials examined according to the protologue.
- Masdevallia pachyantha* var. *hoppii* (Schltr.) Kraenzl., Repert. Spec. Nov. Regni Veg. Beih. 34: 63. 1925.
Accepted Name: *Masdevallia pachyantha*.
TYPE: Colombia, *Hopp 141* (holotype, B, destroyed).
- Masdevallia paisbambae* F.Lehm. & Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 425. 1921.
Accepted Name: *Masdevallia klabochiorum*.
TYPE: Colombia, *Lehmann 3719* (types BM, BR, G).
- Masdevallia pallida* (Woolward) Luer, Selbyana 2(4): 376. 1978.
Accepted Name: *Masdevallia xanthina*.
TYPE: Unknown, *Lehmann s.n.* (holotype, K).
- Masdevallia palmensis* Kraenzl., Bull. Misc. Inform. Kew 100. 1925.
Accepted Name: *Masdevallia fasciata*.
TYPE: Colombia, *Lehmann 4286* (holotype, K-000077731; isotypes, G-00168773, HBG-501776).
- Masdevallia pantherina* F.Lehm. & Kraenzl., Bot. Jahrb. Syst. 26: 454. 1898.
Accepted Name: *Masdevallia laevis*.
TYPE: Colombia, *Lehmann 6752* [lectotype (selected here), K-000077772; isolectotypes, AMES-00101291, AMES-00271898, G [not seen], K-000077773, LE-00006504, NY-00009061, US-00093525, W-R-0007961].
Note: The materials of *M. pantherina* have been mixed with those of *M. chrysonoura*. There are tickets with the names of both species on sheets at K and W, sometimes on the same sheet.
- Masdevallia petiolaris* Schltr., Repert. Spec. Nov. Regni Veg. 7: 80. 1920.
Accepted Name: *Masdevallia laevis*.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 27, No. 100)].
- Masdevallia peristeria* subsp. *haematosticta* (Rchb.f.) Luer, Lindleyana 3(1): 44. 1988.
Accepted Name: *Masdevallia peristeria*.
TYPE: Colombia, *Lehmann s.n.* (holotype, W).
- Masdevallia picturata* var. *minor* Cogn., Fl. Bras. 3(4): 329–330. 1896.
Accepted Name: *Masdevallia picturata*.
TYPE: Colombia, *Lehmann 2732* (holotype, BM-000084425; isotypes, BR, G).
- Masdevallia platycrater* Rchb.f., Flora 69: 559. 1886.
Accepted Name: *Dracula spectrum*.
TYPE: Colombia, *Lehmann 3363* (holotype, W; isotypes, BR, BM, G).
- Masdevallia popayanensis* F.Lehm. & Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 416. 1921.
Accepted Name: *Dryadella simula*.
TYPE: Colombia, *Lehmann 184* (holotype, AMES; isotypes, G, K, NY, RJ, W).
- Masdevallia porcelliceptis* Rchb.f., Gard. Chron. n.s., 19: 10. 1883.
Accepted Name: *Masdevallia macroglossa*.
TYPE: Colombia, *O'Brien s.n.* (holotype, W-R-0039201).
- Masdevallia quilichaoënsis* F.Lehm. & Kraenzl., Bull. Misc. Inform. Kew 1925: 110–111. 1925.
Accepted Name: *Dracula trichroma*.
TYPE: Colombia, *Lehmann 2667* (holotype, K; isotypes, BM, BR, G, MO, HBG-501778).

- Masdevallia remotiflora* Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 415. 1921.
Accepted Name: *Masdevallia amanda*.
TYPE: Colombia, *Wallis 243* (holotype, W-R-0014992).
- Masdevallia restrepioides* Kraenzl., Notizbl. Bot. Gart. Berlin-Dahlem 8: 134. 1922.
Accepted Name: *Masdevallia fasciata*.
TYPE: Colombia, *Kalbreyer 359* (syntype, B, destroyed); 1714 (syntype, B, destroyed).
- Masdevallia roezlii* var. *rubra* hort. ex Williams, Orchid Growers' Man. ed. 6 6: 398. 1885.
Accepted Name: *Dracula roezlii*.
- Masdevallia sarcophylla* Kraenzl., Bull. Misc. Inform. Kew 100. 1925.
Accepted Name: *Masdevallia campyloglossa*.
TYPE: Colombia, *Lehmann 10041* (holotype, K).
- Masdevallia schmidtchenii* Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 432. 1921.
Accepted Name: *Masdevallia molossus*.
TYPE: Colombia, *Schmidtchen s.n.* (holotype, W-R-0011186).
- Masdevallia senilis* Rchb.f., Gard. Chron. 2: 489. 1885.
Accepted Name: *Dracula chimaera*.
TYPE: Colombia, *Low & Co s.n.* (holotype, K, W).
- Masdevallia shuttleworthii* Rchb.f., Gard. Chron. n.s., 3: 170. 1875.
Accepted Name: *Masdevallia caudata*.
TYPE: Colombia, *Shuttleworth s.n.* [lectotype (selected here), W-R-0050948, top right illustr.].
- Masdevallia shuttleworthii* var. *xanthocorys* Rchb.f., Gard. Chron. n.s., 17: 366. 1882.
Accepted Name: *Masdevallia caudata*.
TYPE: Colombia, *Lawrence s.n.* [lectotype (selected here), W-R-0050948, bottom right illustr.].
- Masdevallia subumbellata* Kraenzl., Rep. Spec. Nov. Beihefte 34: 107. 1925.
Accepted Name: *Masdevallia bicolor*.
TYPE: Colombia, *Lehmann 4129* [lectotype (selected here), W-R-0007980; isolectotypes, AMES-00106808, G-00168767]. Ecuador, Hübsch s.n. (syntype, W-R-0016017).
- Masdevallia sororcula* Rchb.f., Gard. Chron. 1887(2): 713. 1887.
Accepted Name: *Masdevallia mooreana*.
TYPE: [Colombia], *Lawrence s.n.* (holotype, W-R-0038791).
- Masdevallia stenantha* F.Lehm. & Kraenzl. ex Krendl, Bot. Jahrb. Syst. 26: 455. 1898.
Accepted Name: *Masdevallia tubulosa*.
TYPE: Colombia, *Lehmann 6740* (holotype, K; isotypes, AMES, NY).
- Masdevallia tenuipes* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 81. 1920.
Accepted Name: *Masdevallia herradurae*.
TYPE: Colombia, *Madero, s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 27, No. 102)].
- Masdevallia tricarinata* F.Lehm. & Kraenzl., Bot. Jahrb. Syst. 26(5): 456. 1899.
Accepted Name: *Pabstiella tripterantha*.
TYPE: Colombia, *Lehmann 8240* (holotype, B, destroyed).
- Masdevallia trinema* Rchb.f., Flora 69: 558. 1886.
Accepted Name: *Dracula velutina*.
TYPE: Colombia, *Lehmann s.n.* (holotype, W).
- Masdevallia trinemoides* Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 418. 1921.
Accepted Name: *Masdevallia fasciata*.
TYPE: Colombia, *Schmidtchen s.n.* (holotype, W).
- Masdevallia trionyx* Kraenzl., Notizbl. Bot. Gart. Berlin-Dahlem 8: 131. 1922.
Accepted Name: *Masdevallia falcago*.
TYPE: Colombia, *Kalbreyer 738* (holotype, B).
- Masdevallia ventricularia* var. *brevicaudata* Kraenzl., Repert. Spec. Nov. Regni Veg. Beih. 34: 19. 1925.
Accepted Name: *Masdevallia ventricularia*.
TYPE: Colombia, *Lehmann 23* (holotype, W-R-0083470).
Note: *Lehmann 2006, 4137, 4310, 4311, 7032, Schmidtchen s.n.*, and *Kalbreyer 1529* have been cited as syntypes. But these don't fit Kraenzlin's description and we believe he was merely listing these as materials studied under the name *M. ventricularia*. At W-R, Kraenzl. explicitly determined a holotype for this taxon.
- Masdevallia ventricularia* var. *longicaudata* F.Lehm., Gard. Chron. III, 23: 238. 1898.
Accepted Name: *Masdevallia filaria*.
Note: This name was never published.
- Masdevallia wagenieriana* var. *colombiana* Braas, Orquideología 12: 27. 1977.
Accepted Name: *Masdevallia pteroglossa*.
TYPE: Colombia, *Escobar 1161* (holotype, JAUM).

- Masdevallia wallisii* var. *stupenda* Rchb.f., Gard. Chron. 1: 270. 1885.
Accepted Name: ***Dracula chimaera***.
TYPE: Colombia, *Shuttleworth s.n.* (holotype, W).
- Masdevallia winniana* Rchb.f., Gard. Chron. 2: 198. 1881.
Accepted Name: ***Dracula roezlii***.
TYPE: Colombia, *Winn s.n.* (holotype, K, W).
- Masdevallia xanthina* var. *pallida* Woolward, Monogr. Genus *Masdevallia*. 1896.
Accepted Name: ***Masdevallia xanthina***.
TYPE: Unknown, *Lehmann s.n.* (holotype, K).
- Masdevallia xerophila* F.Lehm. & Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 431. 1921.
Accepted Name: ***Masdevallia pteroglossa***.
TYPE: Colombia, *Lehmann 125* (holotype, W-R-0083529).
- Masdevallia xiphères* Rchb.f., Linnaea 41: 12. 1877.
Accepted Name: ***Porroglossum muscosum***.
TYPE: Colombia, *Roezli s.n.* (holotype, W-R-0050781).
- Muscarella antioquiensis* Sauleda, Uribe Vélez & Szlach., New World Orchid. Nomencl. Notes 118: 2. 2023.
Accepted Name: ***Andrettaea zephyrina***.
TYPE: Colombia, *Mejia s.n.* (holotype, HPUJ).
- Muscarella tsubotae* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 105: 121–122. 2006.
Accepted Name: ***Andrettaea barberiana***.
TYPE: Colombia, *Luer 16763* (holotype, MO).
- Neoreophilus medinae* Kolan. & Szlach., Diversity 14(372): 20. 2022.
Accepted Name: ***Andinia ursula***.
TYPE: Colombia, *Medina T. S14/28* (holotype, JAUM; photo of type, MEDEL).
Note: Inspection of specimens from the type locality of *N. medinae* and *A. ursula* reveal the two taxa are indistinguishable.
- Octomeria longerepens* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 58–59. 1924.
Accepted Name: ***Octomeria graminifolia***.
TYPE: Colombia, *Hopp 80* (holotype, B, destroyed). Colombia, *Hirtz 4128* [neotype, MO (Luer 2010)].
- Octomeria schultesii* Pabst, Arq. Bot. Estado São Paulo 3(5): 268–269, pl. 67, f. B. 1962.
Accepted Name: ***Octomeria longifolia***.
TYPE: Colombia, *Schultes & López 10148* (holotype, IAN; isotype, AMES).
- Platystele cuculligera* P.Ortiz, Orquideología 14(3): 210. 1981.
Accepted Name: ***Platystele alucitae***.
TYPE: Colombia, *Ortiz 969* (holotype, COL).
- Platystele culex* Luer & R.Escobar, Phytologia 49(3): 198. 1981.
Accepted Name: ***Platystele examen-culicum***.
TYPE: Colombia, *Luer 2313* (holotype, SEL).
- Platystele escobariana* Garay, Orquideología 6: 15. 1971.
Accepted Name: ***Platystele schmidchenii***.
TYPE: Colombia, *Escobar 155* (holotype, AMES).
- Platystele gemmula* Luer, Phytologia 49(3): 198. 1981.
Accepted Name: ***Platystele microglossa***.
TYPE: Colombia, *Luer et al. 4581* (holotype, SEL).
- Platystele hysitera* Luer & R.Escobar, Orquideología 16(1): 14. 1983.
Accepted Name: ***Platystele pisifera***.
TYPE: Colombia, *Luer et al. 7898* (holotype, SEL).
- Platystele porphyroglossa* P.Ortiz, Orquideología 14(3): 216. 1981.
Accepted Name: ***Platystele gyroglossa***.
TYPE: Colombia, *Ortiz 971* (holotype, COL).
- Pleurothallis andrei* Luer & R.Escobar, Orquideología 20: 34. 1996.
Accepted Name: ***Pleurothallis lindenii***.
TYPE: Colombia, *Luer et al. 16744* (holotype, MO).
- Pleurothallis antioquiensis* (Schltr.) P.H. Allen, Revista Fac. Nac. Agron., Medellín 8(32): 442. 1948.
Accepted Name: ***Restrepia sanguinea***.
TYPE: Colombia, *Madero s.n.* (holotype, B, destroyed).
- Pleurothallis apoxys* Luer & R.Escobar, Orquideología 14(2): 132. 1981.
Accepted Name: ***Pleurothallis supervacanea***.
TYPE: Colombia, *Luer 2087* (holotype, SEL; isotype, JAUM).
- Pleurothallis arachnion* Luer, Phytologia 47(2): 74. 1980.
Accepted Name: ***Pleurothallis quadricaudata***.
TYPE: Colombia, *Luer et al. 4606* (holotype, SEL).
- Pleurothallis arevaloi* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 43–44. 1924.
Accepted Name: ***Specklinia picta***.
TYPE: Colombia, *Hopp 121,161* (holotype, B, destroyed).

- Pleurothallis asymmetrica* (Kolan. & Szlach.) Karremans, *Phytotaxa* 496(2): 135. 2021.
Accepted Name: ***Pleurothallis xanthochlora***.
TYPE: Colombia, *Garay et al.* 223 (holotype, AMES; drawing, UGDA).
- Pleurothallis aves-seriales* Luer & R.Escobar, *Orquideología* 14(2): 134. 1981.
Accepted Name: ***Pleurothallis penduliflora***.
TYPE: Colombia, *Escobar et al.* 956 (holotype, JAUM).
- Pleurothallis birchenallii* Rolfe, *Bull. Misc. Inform. Kew* 365. 1909.
Accepted Name: ***Pleurothallis glossopogon***.
TYPE: Colombia, *Birchennall s.n.* (holotype, K).
- Pleurothallis biserrula* Rchb.f., *Bonplandia* (Hannover) 3: 71. 1855.
Accepted Name: ***Pleurothallis glossopogon***.
TYPE: Colombia, *Wagener s.n.* [L551] (holotype, W-R-0053225; isotype; K-L).
- Pleurothallis bogotensis* Lindl., *Orchid. Linden.* 1. n. 3. 1846.
Accepted Name: ***Pleurothallis phalangifera***.
TYPE: Colombia, *Linden 1271* (holotype, K-L; isotype, W-R-0053235!, left).
- Pleurothallis bogotensis* Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 162–163. 1924, *nom. illeg.*
Accepted Name: ***Stelis pulchella***.
TYPE: Colombia, *Hopf s.n.* (holotype, B, destroyed). Colombia, *Hartweg s.n.* [neotype, K (Luer 1998a)].
- Pleurothallis brachyantha* Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 44. 1924.
Accepted Name: ***Anathallis citrina***.
TYPE: Colombia, *Hopp 21* (holotype, B; destroyed).
- Pleurothallis brevicaulis* Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 7: 101. 1920.
Accepted Name: ***Specklinia gracillima***.
TYPE: Colombia, *Lehmann 8205* [holotype, B, destroyed; lectotype, AMES-02151693 (Luer 2006); islectotype, K-000584172].
- Pleurothallis caliensis* Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 7: 102–103. 1920.
Accepted Name: ***Pleurothallopsis tubulosa***.
TYPE: Colombia, *Lehmann 8226* [holotype, probably destroyed at B; lectotype (selected here), K-000583672; islectotype, K-000583671; illustration of type, Schlechter's floral analysis published by Mansfeld (1929: Pl. 35, No. 133)].
- Pleurothallis cardiantha* Rchb.f., *Linnaea* 41: 15. 1877 [1876].
Accepted Name: ***Pleurothallis bivalvis***.
TYPE: Colombia, *Roehl s.n.* (holotype, W-R-0025680).
- Pleurothallis chachatoynsis* Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 27: 45. 1924.
Accepted Name: ***Pleurothallis microcardia***.
TYPE: Colombia, *Hopp 48* (holotype, B, destroyed).
- Pleurothallis chloroleuca* Lindl., *Orchid. Linden.* 2. 1846.
Accepted Name: ***Pleurothallis laurifolia***.
TYPE: Colombia, *Linden 1269* (holotype, K-L-000079869; isotypes, GENT-10168516, W-R-0024877).
- Pleurothallis chlamydropus* Schltr., *Repert. Spec. Nov. Regni Veg.* 7: 103. 1920.
Accepted Name: ***Stelis ligulata***.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 35, No. 134)]. Colombia, *Lehmann 4508* [neotype, AMES; isoneotype, NY (Luer 1998a), here rejected and selected as epitypes].
- Pleurothallis corralensis* Garay, *Arch. Jard. Bot. Rio de Janeiro* 13: 42. 1955.
Accepted Name: ***Pleurothallis coriacardia***.
TYPE: Colombia, *Lehmann 8207* [holotype, B, destroyed; lectotype, K; islectotype, AMES (Luer 2005)].
- Pleurothallis cundinamarcae* Schltr., *Notizbl. Bot. Gart. Berlin-Dahlem* 7: 528. 1921.
Accepted Name: ***Pleurothallis microcardia***.
TYPE: Colombia, *Schnitter s.n.* (holotype, B, destroyed).
- Pleurothallis cyclochila* Lindl., *Fol. Orchid. ~Pleurothallis~* 8. 1859.
Accepted Name: ***Pleurothallis antennifera***.
TYPE: Colombia, *Triana 124* (holotype, K-L; isotype, W-R-0053853; tracing of type, W-R-0007810).
- Pleurothallis cymbicalli* Pabst, *Arq. Bot. Estado São Paulo* 3(5): 268, t. 67, f. A. 1962.
Accepted Name: ***Myoxanthus trachychlams***.
TYPE: Colombia, *Schultes 8584* (holotype, IAN; isotype, AMES).
- Pleurothallis daguensis* F.Lehm. & Kraenzl., *Bot. Jahrb. Syst.* 26(3–4): 444. 1899.

- Accepted Name: *Acianthera ciliata*.
 TYPE: Colombia, *Lehmann 8167* (holotype, B; destroyed).
- Pleurothallis decora* Luer & R.Escobar, Orquideología 16(1): 20. 1983.
 Accepted Name: *Pleurothallis nutans*.
 TYPE: Colombia, *Luer et al. 7922* (holotype, SEL; isotype, JAUM).
- Pleurothallis decurva* Lindl., Fol. Orchid. ~Pleurothallis~ 8. 1859.
 Accepted Name: *Pleurothallis phalangifera*.
 TYPE: Colombia, *Jameson 19* (holotype, K-L).
- Pleurothallis elegans* (Kunth) Lindl., Edwards's Bot. Reg. 28(Misc): 70. 1842.
 Accepted Name: *Stelis roseopunctata*.
 TYPE: Colombia, *Humboldt & Bonpland s.n.* (holotype, P; fragment, W).
- Pleurothallis espinalii* Luer, Orquideología 21(2): 122–125. 1999.
 Accepted Name: *Stelis convoluta*.
 TYPE: Colombia, *Espinal & Ramos 3041* (holotype, CUVC).
- Pleurothallis falcipetala* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 163. 1924.
 Accepted Name: *Gravendeelia chamaelepanthes*.
 TYPE: Colombia, *Lehmann 2045* (holotype, B, destroyed; lectotype (selected here), BM-000082184. Colombia, *Lehmann 8245* [neotype, K (Luer 1997), here rejected].
 Note: Among the indet materials at BM we found an isotype of this obscure taxon and determined it as *G. chamaelepanthes*. Based on the description, Luer mistakenly believed this name applied to *Trichosalpinx (Stellamaris) pergrata*. The neotype is rejected here.
- Pleurothallis florulenta* Linden & Rchb.f., Bonplandia (Hannover) 3: 223. 1855.
 Accepted Name: *Specklinia picta*.
 TYPE: Colombia, *Linden 55* (holotype, W; isotype, AMES).
- Pleurothallis fornix* Luer & R.Escobar, Orquideología 16(2): 160. 1984.
 Accepted Name: *Pleurothallis calceolaris*.
 TYPE: Colombia, *Escobar et al. 8758* (holotype, SEL).
- Pleurothallis fuscata* Braid, Bull. Misc. Inform. Kew 1924: 200–201. 1924.
 Accepted Name: *Pleurothallis bivalvis*.
 TYPE: Colombia (holotype, K).
- Pleurothallis granularis* Luer & R.Escobar, Orquideología 16(2): 162. 1984.
 Accepted Name: *Pleurothallis platysepala*.
 TYPE: Colombia, *Luer 8183* (holotype, SEL).
- Pleurothallis hartwegii* Lindl., Ann. Mag. Nat. Hist. 15: 106. 1845, *nom. illeg.*
 Accepted Name: *Stelis laevigata*.
 TYPE: Colombia, *Hartweg 1405* (holotype, K-L-000674224; isotypes, BM-000082364; LD-1246759, W-R-0053633).
- Pleurothallis hawkesii* Flickinger, Orchid Rev. 71: 336. 1963.
 Accepted Name: *Restrepia brachypus*.
 TYPE: Colombia, *Moore s.n.* (lectotype, K).
- Pleurothallis hemirhoda* Lindl. & Paxton, Paxt. Fl. Gard. 3: 133, no. 612, f. 299. 1852.
 Accepted Name: *Pleurothallis nuda*.
 TYPE: Colombia, *Linden s.n.* (holotype, W; type illustration, K-L).
- Pleurothallis hirtzii* Luer, Phytologia 47(2): 76. 1980.
 Accepted Name: *Pleurothallis colossus*.
 TYPE: Colombia, *Luer et al. 4618* (holotype, SEL).
- Pleurothallis hopfiana* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 164. 1924.
 Accepted Name: *Stelis ligulata*.
 TYPE: Colombia, *Hopf s.n.* (holotype, B, destroyed). Colombia, *Luer et al. 6658* [neotype, SEL (Luer 1998a)].
- Pleurothallis hoppii* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 46. 1924.
 Accepted Name: *Pleurothallis glossopogon*.
 TYPE: Colombia, *Hopp 122* (holotype, B, destroyed).
- Pleurothallis humidicola* Garay, Svensk Bot. Tidskr. 47: 212. 1953.
 Accepted Name: *Specklinia gracillima*.
 TYPE: Colombia, *Sneidern 109* (holotype, S).
- Pleurothallis ineziae* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 47. 1924.
 Accepted Name: *Pleurothallis phalangifera*.
 TYPE: Colombia, *Hopp 10* (holotype, B, destroyed).
- Pleurothallis jimii* Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 237, 242, f. 9. 2004, *nom. inval.*
 Accepted Name: *Pleurothallis lueriana*.
 TYPE: Colombia, *Luer 20126* (holotype, MO).
- Pleurothallis lancifera* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 48–49. 1924.

- Accepted Name: *Trichosalpinx orbicularis*.
 TYPE: Colombia, *Hopp 67* (holotype, B, destroyed).
- Pleurothallis langlassei* Schltr., Repert. Spec. Nov. Regni Veg. 7: 105. 1920.
 Accepted Name: *Stelis cassidis*.
 TYPE: Colombia, *Langlassé 97* [holotype, B, destroyed; lectotype, AMES; isolectotypes, G, K, US (Luer 1998a)].
- Pleurothallis lansbergii* Regel, Index Sem. (St. Petersburg) 17. 1856.
 Accepted Name: *Pleurothallis bivalvis*.
 TYPE: Colombia (holotype, LE).
- Pleurothallis lauta* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 105. 1920.
 Accepted Name: *Muscarella zephyrina*.
 TYPE: Colombia, *Lehmann 8206* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 36, No. 138)].
- Pleurothallis leontoglossa* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 106. 1920, *nom. illeg.*
 Accepted Name: *Pleurothallis coriacardia*.
 TYPE: Colombia, *Lehmann 8207* [holotype, B, destroyed; lectotype, K; isolectotype, AMES (Luer 2005)].
- Pleurothallis lepanthoides* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 106–107. 1920.
 Accepted Name: *Karma arbuscula*.
 TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 37, No. 140)].
- Pleurothallis lindenii* var. *pumila* Rchb.f., Bonplandia (Hannover) 3: 72. 1855.
 Accepted Name: *Pleurothallis inflata*.
 TYPE: Colombia, *Wagener s.n.* (holotype, K).
- Pleurothallis listrostachys* Rchb.f., Bonplandia (Hannover) 3: 71. 1855.
 Accepted Name: *Stelis sclerophylla*.
 TYPE: Colombia, *Wagener 561* (holotype, W; isolectotypes, BR, K-L).
- Pleurothallis mariae* I. Bock, Orchidee (Hamburg) 36(3): 128. 1981.
 Accepted Name: *Pleurothallis discoidea*.
 TYPE: Colombia, *Bock s.n.* (holotype, BOCK).
- Pleurothallis medellinensis* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 236. 1920.
 Accepted Name: *Pabstiella tripterantha*.
 TYPE: Colombia, *Lehmann 8240* (holotype, B, destroyed).
- Pleurothallis monocardia* Rchb.f., Bonplandia (Hannover) 3: 72. 1855.
 Accepted Name: *Pleurothallis cordata*.
 TYPE: Colombia, *Wagener s.n.* (holotype, W).
- Pleurothallis nasuta* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 164. 1924.
 Accepted Name: *Pleurothallis phalangifera*.
 TYPE: Colombia, *Schnitter s.n.* (holotype, B?, destroyed).
- Pleurothallis navicularis* Lindl., Fol. Orchid. ~Pleurothallis~ 6–7. 1859.
 Accepted Name: *Pleurothallis loranthophylla*.
 TYPE: Colombia, *Purdie s.n.* (holotype, K; illustration of type, K-L).
- Pleurothallis northenae* Luer, Amer. Orchid Soc. Bull. 45(3): 201. 1976.
 Accepted Name: *Pleurothallis latipetala*.
 TYPE: Colombia, *Luer 031* (holotype, SEL).
- Pleurothallis nubigena* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 50. 1924, *nom. illeg.*
 Accepted Name: *Stelis ligulata*.
 TYPE: Colombia, *Hopp 30* (holotype, B, destroyed).
 Colombia, *Lehmann 6924* [neotype, AMES; isolectotypes, NY, US (Luer 1998a)].
- Pleurothallis ochroleuca* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 108. 1920.
 Accepted Name: *Stelis aurea*.
 TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 37, No. 143)].
- Pleurothallis ospinae* R.E. Schult., Caldasia 7(35): 354. 1957.
 Accepted Name: *Restrepia antennifera*.
 TYPE: Colombia, *Humboldt & Bonpland s.n.* (holotype, P).
- Pleurothallis papillisepala* Schltr., Repert. Spec. Nov. Regni Veg. 7: 109. 1920.
 Accepted Name: *Stelis convoluta*.
 TYPE: Colombia, *Lehmann 4518* [holotype, B, destroyed; lectotype (selected here), K-000584304; isolectotypes, AMES00074589, LE-00001422, US-00093672].
- Pleurothallis patula* Schltr., Repert. Spec. Nov. Regni Veg. 7: 110. 1920.

- Accepted Name: *Stelis ligulata*.
 TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 38, No. 145)]. Colombia, *Lehmann 4508* [neotype, AMES (Luer 1998a), here rejected].
- Pleurothallis pendula* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 51. 1924.
 Accepted Name: *Pleurothallis lindenii*.
 TYPE: Colombia, *Hopp 172* (holotype, B, destroyed).
- Pleurothallis phaeantha* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 52. 1924.
 Accepted Name: *Pleurothallis bivalvis*.
 TYPE: Colombia, *Hopp 1* (holotype, B, destroyed).
- Pleurothallis platycardium* Schltr., Repert. Spec. Nov. Regni Veg. 7: 529. 1921.
 Accepted Name: *Pleurothallis cordata*.
 TYPE: Colombia, *Schnitter s.n.* (holotype, S).
- Pleurothallis pleiostachys* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 53. 1924.
 Accepted Name: *Stelis cassidis*.
 TYPE: Colombia, *Hopp 174* (holotype, B, destroyed). Colombia, Jameson 398 [neotype, AMES, isonotype, K (Luer 1998a)].
- Pleurothallis potamophila* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 53. 1924.
 Accepted Name: *Stelis rhodantha*.
 TYPE: Colombia, *Hopp 119* (holotype, B, destroyed). Colombia, *Lehmann 4502* [neotype, K; isonotypes, AMES, LE-00001424 (Luer 1998a)].
- Pleurothallis pteroglossa* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 112. 1920.
 Accepted Name: *Stelis pulchella*.
 TYPE: Colombia, *Triana 565* [holotype, B, destroyed; lectotype, US (Luer 1998a)].
- Pleurothallis pristis* F.Lehm. & Kraenzl., Bot. Jahrb. Syst. 26: 443. 1899.
 Accepted Name: *Stelis dialissa*.
 TYPE: Colombia, *Lehmann 6032* [holotype, B, destroyed; lectotype, AMES (Luer 2009a); lectotype, AMES-14772 (Luer 2018c)].
- Pleurothallis puberula* Klotzsch, Allg. Gartenzeitung 22(50): 393–394. 1854.
 Accepted Name: *Restrepiella ophiocephala*.
 TYPE: Colombia, *Warszewicz s.n.* (holotype?).
- Pleurothallis pulvinipes* Schltr., Notizbl. Bot. Gart. Berlin-Dahlem 7: 529. 1921.
 Accepted Name: *Pleurothallis macrocardia*.
 TYPE: Colombia, *Schnitter s.n.* (holotype, S).
- Pleurothallis pyxos* Luer & R.Escobar, Orquideología 14: 168. 1981.
 Accepted Name: *Karma amygdalora*.
 TYPE: Colombia, *Luer et al. 3047* (holotype, SEL; isotype, JAUM).
- Pleurothallis reichenbachiana* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 8: 131. 1921.
 Accepted Name: *Pleurothallis laurifolia*.
 TYPE: Colombia, *Roezl s.n.* (holotype, W; isotype, AMES).
- Pleurothallis raphidopus* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 54–55. 1924.
 Accepted Name: *Pleurothallis phyllocardioides*.
 TYPE: Colombia, *Hopp 83* (holotype, B, destroyed).
- Pleurothallis rhodocardia* Garay, Svensk Bot. Tidskr. 47(2): 204–206. 1953.
 Accepted Name: *Pleurothallis rowleei*.
 TYPE: Colombia, *von Sneidern 1603* (holotype, S; isotype, AMES).
- Pleurothallis rhomboglossa* Rchb.f., Flora 71(10): 154. 1888, *nom. illeg.*
 Accepted Name: *Pleurothallis laurifolia*.
 TYPE: Colombia, *Roezl s.n.* (holotype, W; isotype, AMES).
- Pleurothallis roezlii* Rchb.f., Linnaea 61: 13. 1877.
 Accepted Name: *Pleurothallis macrophylla*.
 TYPE: Colombia, *Röezl s.n.* (holotype, P).
- Pleurothallis ruscifolia* var. *caquetana* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 55. 1924. Accepted Name: *Pleurothallis ruscifolia*.
 TYPE: Colombia, *Hopp 72* (holotype, B, destroyed).
- Pleurothallis scapha* Rchb.f., Gard. Chron. 2: 162. 1874.
 Accepted Name: *Pleurothallis sirene*.
 TYPE: Colombia, *Day 358* (holotype, W).
- Pleurothallis scaphioglottis* Schltr., Repert. Spec. Nov. Regni Veg. 7: 113. 1920.
 Accepted Name: *Pleurothallis canaligera*.
 TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 39, No. 150)].
- Pleurothallis schistopetala* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 113. 1920.
 Accepted Name: *Muscarella zephyrina*.

- TYPE: Colombia, *Smith 2482* (holotype, US; isotype, BM-000082524; BR, K, NY).
- Pleurothallis schnitteri* Schltr., Notizbl. Bot. Gart. Berlin-Dahlem 7: 530. 1921.
Accepted Name: ***Pleurothallis phalangifera***.
TYPE: Colombia, *Schnitter s.n.* (holotype, B?, destroyed).
- Pleurothallis smithii* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 114. 1920.
Accepted Name: ***Pleurothallis coriacardia***.
TYPE: Colombia, *Smith 2362* (holotype, K; isotypes, AMES, NY, US).
- Pleurothallis sphenochila* Lindl., Fol. Orchid. ~Pleurothallis~ 22. 1859.
Accepted Name: ***Stelis pulchella***.
TYPE: Colombia, *Schlim 1031* (holotype, K).
- Pleurothallis stelidioides* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 116. 1920.
Accepted Name: ***Stelis magdalenae***.
TYPE: Colombia, *Lehmann 8198* [holotype, B, destroyed; lectotype, AMES-14836/AMES-00074771 (Luer 1999a emend Toscano de Brito 2018); isoelectotypes, AMES-00074772, G-00168981, HB [not seen], K-000584276, US00093702! W-R-0007966].
- Pleurothallis stenophylla* F.Lehm. & Kraenzl., Bot. Jahrb. Syst. 26: 442. 1899.
Accepted Name: ***Stelis melanopus***.
TYPE: Colombia, *Lehmann 4515* [lectotype (selected here), K-000584275; isoelectotypes, LE-00006522, US-00093703].
- Pleurothallis sugdenii* Luer, Orquideología 20(2): 229.
Accepted Name: ***Pleurothallis discoidea***.
TYPE: Colombia, *Sugden 34* (holotype, K).
- Pleurothallis superposita* Schltr., Repert. Spec. Nov. Regni Veg. 14: 386. 1916.
Accepted Name: ***Stelis catenata***.
TYPE: Ecuador, *Sodiro 29* [holotype, B, destroyed; lectotype, QPLS (Luer 1999a)].
- Pleurothallis trianae* Schltr., Repert. Spec. Nov. Regni Veg. 7: 117. 1920.
Accepted Name: ***Stelis galeata***.
TYPE: Colombia, *Triana 569* [holotype, B, destroyed; lectotype, US (Luer 1998a); isoelectotypes, P-00489121, P-00489122, COL-000363332].
- Pleurothallis tsubotae* Luer & R.Escobar, Orquideología 20: 88. 1996.
Accepted Name: ***Andreettaea barberiana***.
TYPE: Colombia, *Luer 16763* (holotype, MO).
- Pleurothallis trachythea* F.Lehm. & Kraenzl., Bot. Jahrb. Syst. 26(3–4): 444–445. 1899.
Accepted Name: ***Trichosalpinx orbicularis***.
TYPE: Colombia, *Lehmann 8224* [holotype, B, destroyed; lectotype, K-000584211; isoelectotypes, AMES-00074813, AMES-00287046, NY-00009245 (Luer 1997)].
- Pleurothallis tunguraguae* var. *minor* Garay, Canad. J. Bot. 34(2): 255. 1956.
Accepted Name: ***Stelis tunguraguae***.
TYPE: Colombia, *Aristide-Joseph A194* (holotype, US-888402).
- Pleurothallis wrosepala* F.Lehm. & Kraenzl., Bot. Jahrb. Syst. 26: 442. 1899.
Accepted Name: ***Stelis sclerophylla***.
TYPE: Colombia, *Lehmann 6065* (holotype, K-000584267; isotypes, AMES-00074828, AMES-00074829, AMES-00074830, AMES-00074832, AMES-00074833, AMES-00074834, BM-000074326, K-000584266, K-000584268, LE-00006524, NY-00009249, US-00093715).
- Pleurothallis venosa* Rolfe, Kew Bull. 30. 1906.
Accepted Name: ***Stelis galeata***.
TYPE: Colombia, *Sander s.n.* (holotype, K; isotype, AMES).
- Pleurothallis wendlandiana* Rchb.f., Flora 71(9): 153–154. 1888.
Accepted Name: ***Pleurothallis laurifolia***.
TYPE: Colombia, *Wendland s.n.* [lectotype (selected here), W-R-0024879, type illustr.].
- Pleurothallis wernerii* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 57. 1924.
Accepted Name: ***Pleurothallis phalangifera***.
TYPE: Colombia, *Hopp 90* (holotype, B, destroyed).
- Porroglossum colombianum* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 83. 1920.
Accepted Name: ***Porroglossum mordax***.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 27, No. 103)].
- Porroglossum xiphères* (Rchb.f.) Garay, Bot. Mus. Leaflet. 21: 252. 1967.
Accepted Name: ***Porroglossum muscosum***.
TYPE: Colombia, *Roetz s.n.* (holotype, W).

- Restrepia antennifera* var. *angustifolia* Kraenzl., Bot. Jahrb. Syst. 26: 451. 1899.
Accepted Name: ***Barbosella cucullata***.
TYPE: Colombia, *Lehmann 6883* (lectotype, K).
- Restrepia antennifera* subsp. *erythroantha* (Rchb.f.) Mohr, Leafl. Schlechter Inst. 2: 13. 1996.
Accepted Name: ***Restrepia elegans***.
TYPE: Venezuela, *Moritz 854* (holotype, W; isotype, G).
- Restrepia antennifera* subsp. *hemsleyana* (Schltr.) H.Mohr, Leafl. Schlechter Inst. 2: 13. 1996.
Accepted Name: ***Restrepia antennifera***.
TYPE: Colombia, *Sander s.n.* (holotype, K).
- Restrepia antennifera* subsp. *leontoglossa* (Schltr.) H.Mohr, Leafl. Schlechter Inst. 2: 13. 1996.
Accepted Name: ***Restrepia trichoglossa***.
TYPE: Colombia, *Madero s.n.* (holotype, B, destroyed). Colombia, *Luer 17618* [neotype, MO (Luer 1996a)].
- Restrepia antennifera* subsp. *striata* (Rolfe) H.Mohr, Leafl. Schlechter Inst. 2: 13. 1996.
Accepted Name: ***Restrepia brachypus***.
TYPE: Colombia, *Moore s.n.* (lectotype, K).
- Restrepia antioquiensis* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 118. 1920.
Accepted Name: ***Restrepia sanguinea***.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 42, No. 159)].
- Restrepia aristulifera* f. *leathersii* Luer, Harvard Pap. Bot. 17(2): 360. 2012.
Accepted Name: ***Restrepia aristulifera***.
TYPE: Colombia, *Leathers s.n.* (holotype, MO).
- Restrepia biflora* Regel, Ann. Sci. Nat., Bot., sér. 4, 6: 373. 1856.
Accepted Name: ***Pleurothallis nuda***.
TYPE: Colombia, *Lamberg s.n.* (holotype, LE).
- Restrepia brachypus* subsp. *serrilabia* (Schltr.) H.Mohr, Leafl. Schlechter Inst. 2: 14. 1996.
Accepted Name: ***Restrepia trichoglossa***.
TYPE: Colombia, *Madero s.n.* (holotype, B, destroyed). Colombia, *Luer 17548* [neotype, MO (Luer 1996a)].
- Restrepia caespitiflora* F.Lehm. & Kraenzl., Repert. Spec. Nov. Regni Veg. 24(22–25): 358–359. 1928.
Accepted Name: ***Barbosella prorepens***.
TYPE: Colombia, *Lehmann 3305* (holotype, lost?).
- Restrepia caucana* Schltr., Repert. Spec. Nov. Regni Veg. 7: 119. 1920.
Accepted Name: ***Restrepia contorta***.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 42, No. 160)]. Colombia, *Luer 16681* [neotype, MO (Luer 1996a), here rejected and selected as epitype].
- Restrepia dentata* Rolfe, Bull. Misc. Inform. Kew 208. 1892.
Accepted Name: ***Restrepia aspicensis***.
TYPE: Colombia, *Moore s.n.* (holotype, K).
- Restrepia hemsleyana* Schltr., Repert. Spec. Nov. Regni Veg. 7: 199. 1920.
Accepted Name: ***Restrepia antennifera***.
TYPE: Colombia, *Sander s.n.* (holotype, K).
- Restrepia leontoglossa* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 120. 1920.
Accepted Name: ***Restrepia trichoglossa***.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 42, No. 161)]. Colombia, *Luer 17618* [neotype, MO (Luer 1996a), here rejected and selected as epitype].
- Restrepia maculata* Lindl., Orchid. Linden. 4. 1846.
Accepted Name: ***Restrepia contorta***.
TYPE: Colombia, *Linden 1270* [lectotype, K (Luer 1996a); isoclectotypes, BR, W].
- Restrepia muscifera* subsp. *shuttleworthii* (Rolfe) H.Mohr, Leafl. Schlechter Inst. 2: 8, t. 2. 1996.
Accepted Name: ***Restrepia muscifera***.
TYPE: Colombia, *Shuttleworth s.n.* (holotype, K).
- Restrepia schlimii* Rchb.f., Linnaea 41: 45. 1877.
Accepted Name: ***Restrepia nittiorhyncha***.
TYPE: Colombia, *Schlim 1158* (holotype, K; isotype, G).
- Restrepia serrilabia* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 121. 1920.
Accepted Name: ***Restrepia trichoglossa***.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 42, No. 162)]. Colombia, *Luer 17548* [neotype, MO (Luer 1996a), here rejected and selected as epitype].

- Restrepia shuttleworthii* Rolfe, Bull. Misc. Inform. Kew 1892(65–66): 138–139. 1892.
Accepted Name: ***Restrepia muscifera***.
TYPE: Colombia, *Shuttleworth s.n.* (holotype, K).
- Restrepia striata* Rolfe, Gard. Chron., ser. 3 9: 137. 1891.
Accepted Name: ***Restrepia brachypus***.
TYPE: Colombia, *Moore s.n.* (lectotype, K).
- Restrepia vittata* Lindl., J. Hort. Soc. London 3: 314. 1848.
Accepted Name: ***Pleurothallis nuda***.
TYPE: Colombia, *Linden s.n.* (holotype, W).
- Restrepia vittata* var. *biflora* Regel, Ann. Sci. Nat., Bot., sér. 4, 6: 373. 1856.
Accepted Name: ***Pleurothallis nuda***.
TYPE: Colombia, *Lamberg s.n.* (holotype, LE).
- Restrepiella bicallosa* (Luer & R.Escobar) Braas & H.Mohr, Orchideen 33: 154. 1982.
Accepted Name: ***Pleurothallopsis norae***.
TYPE: Colombia, *Luer 2332* (holotypes, SEL, JAUM).
- Restrepiopsis bicallosa* Luer & R.Escobar, Selbyana 2: 201. 1978.
Accepted Name: ***Pleurothallopsis norae***.
TYPE: Colombia, *Luer 2332* (holotypes, SEL, JAUM).
- Scaphosepalum antioquiense* Kraenzl., Notizbl. Bot. Gart. Berlin-Dahlem 8: 135. 1922.
Accepted Name: ***Porroglossum mordax***.
TYPE: Colombia, *Kalbrever 1715; 2361* (syntypes, B, destroyed).
- Scaphosepalum escobarianum* Garay, Orquideología 6(1): 14. 1971.
Accepted Name: ***Scaphosepalum grande***.
TYPE: Colombia, *Escobar 712* (holotype, AMES).
- Scaphosepalum nutans* Kraenzl., Notizbl. Bot. Gart. Berlin-Dahlem 8: 136. 1922.
Accepted Name: ***Scaphosepalum breve***.
TYPE: Colombia, *Kalbrever 1471* (holotype, B, destroyed).
- Scaphosepalum ochthodes* (Rchb.f.) Pfitzer, Nat. Pflanzenfam. 2(6): 39. 1888.
Accepted Name: ***Scaphosepalum verrucosum***.
TYPE: Colombia, *Wagner 564* (holotype, W).
- Scaphosepalum platypetalum* Schltr., Repert. Spec. Nov. Regni Veg. 7: 75. 1920.
Accepted Name: ***Scaphosepalum swertiifolium***.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 25, No. 93)].
- Scaphosepalum reversum* Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 436. 1921.
Accepted Name: ***Scaphosepalum antenniferum***.
TYPE: Colombia, unknown (holotype, W).
- Scaphosepalum rolfeanum* Kraenzl., Repert. Spec. Nov. Regni Veg. Beih. 34: 211. 1925.
Accepted Name: ***Scaphosepalum pulvinare***.
TYPE: Colombia, *Boxall s.n.* [lectotype, W (Luer 1988)].
- Scaphosepalum sneidernii* Garay, Svensk Bot. Tidskr. 47: 202. 1953.
Accepted Name: ***Scaphosepalum odontochilum***.
TYPE: Colombia, v. *Sneidern 950* (holotype, S).
- Scaphosepalum swertiifolium* subsp. *exiguum* Luer & R.Escobar, Monogr. Syst. Bot. Missouri Bot. Gard. 26: 91, pl. 37–38. 1988.
Accepted Name: ***Scaphosepalum swertiifolium***.
TYPE: Colombia, *Escobar 2453* (holotype, SEL).
- Scaphosepalum xiphères* (Rchb.f.) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 220. 1920.
Accepted Name: ***Porroglossum muscosum***.
TYPE: Colombia, *Roezl s.n.* (holotype, W).
- Specklinia florulenta* (Linden & Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16(4): 257. 2001.
Accepted Name: ***Specklinia picta***.
TYPE: Colombia, *Linden 55* (holotype, W; isotype, AMES).
- Specklinia lepanthoides* (Schltr.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 261. 2004.
Accepted Name: ***Karma arbuscula***.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype, Schlechter's floral analysis published by Mansfeld (1929: Pl. 37, No. 140)].
- Specklinia pereziana* Kolan., Biodiv. Res. Conserv. 24: 19–22. 2011.
Accepted Name: ***Lankesteriana barbulate***.
TYPE: Colombia, *Kolanowska & Pérez 263* (holotype, UGDA-spirit).
- Specklinia tsubotae* (Luer & R.Escobar) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 95: 264. 2004.
Accepted Name: ***Muscarella barberiana***.
TYPE: Colombia, *Luer 16763* (holotype, MO).
- Stelis abrupta* Rchb.f., Linnaea 41: 7. 1877.
Accepted Name: ***Stelis purpurea***.

- TYPE: Colombia, *Roehl s.n.* (holotype, W; drawing of type, AMES).
- Stelis apiculata* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 84. 1920, *nom. illeg.*
Accepted Name: ***Stelis oblonga***.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 28, No. 105)].
- Stelis arevaloi* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 25. 1924.
Accepted Name: ***Stelis lamellata***.
TYPE: Colombia, *Hopp 145* (holotype, B, destroyed). Colombia, *Luer et al. 13844* [neotype, MO (Luer 2009a)].
- Stelis bracteata* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 26–27. 1924, *nom. illeg.*
Accepted Name: ***Stelis braccata***.
TYPE: Colombia, *Hopp 58* (holotype, B, destroyed).
- Stelis bractescens* Garay, Bot. Mus. Leaflet. 27(7–9): 185. 1979.
Accepted Name: ***Stelis braccata***.
TYPE: Colombia, *Hopp 58* (holotype, B, destroyed).
- Stelis bruchmuelleri* Rchb.f. ex Hook.f., Bot. Mag. 106: t. 6521. 1880.
Accepted Name: ***Stelis eublepharis***.
TYPE: Colombia, *Veitch & Sons s.n.* (holotype, K).
- Stelis caespitiflora* Rchb.f., Bonplandia (Hannover) 3: 71. 1855.
Accepted Name: ***Stelis nitens***.
TYPE: Colombia, *Wagner s.n.* (holotype, W; isotype, AMES-00287033).
- Stelis caespitula* Luer & R.Escobar, Harvard Pap. Bot. 21(1): 62. 2016.
Accepted Name: ***Stelis silverstonei***.
TYPE: Colombia, *Luer 13221* (holotype, MO).
- Stelis cairoënsis* Luer, Selbyana 30: 20–21. 2009.
Accepted Name: ***Stelis lindenii***.
TYPE: Colombia, *Silverstone-Sopkin 8000* (holotype, CUVC; isotype, MO).
- Stelis canaliculata* Rchb.f., Gard. Chron. 1718. 1872.
Accepted Name: ***Stelis tenuilabris***.
TYPE: Colombia, *Saunders 2707* (holotype, W).
- Stelis cauae* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 85. 1920.
Accepted Name: ***Stelis purpurea***.
TYPE: Colombia, *Lehmann 6923* [holotype, B, destroyed; lectotype (selected here), K-000573941; isoelectotypes, LE-00001388, NY-00009391].
- Stelis citrina* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 86. 1920.
Accepted Name: ***Stelis pusilla***.
TYPE: Colombia, *Lehmann 3692* [lectotype K-000573947 (Luer 2009a); isoelectotypes, BR, AMES-00104676, BM-000084109, NY-00009392, US-00093546].
- Stelis convallarioides* Garay, Canad. J. Bot. 34(3): 351–352. 1956.
Accepted Name: ***Stelis superbiens***.
TYPE: Colombia, *Archer 2143* (holotype, US-1519162).
- Stelis dazae* Garay, Bot. Mus. Leaflet. 27(7–9): 202 (index). 1980, *nom. inval.*
Accepted Name: ***Stelis polyclada***.
TYPE: Colombia, *Hopp 151* (holotype, B, destroyed).
- Stelis dendrophila* Luer & R.Escobar, Harvard Pap. Bot. 22(1): 34. 2017.
Accepted Name: ***Stelis atra***.
TYPE: Colombia, *Luer & Escobar 7619* (holotype, SEL).
- Stelis dinamica* Luer & R.Escobar, Harvard Pap. Bot. 22(1): 36. 2017.
Accepted Name: ***Stelis attenuata***.
TYPE: Colombia, *Luer et al. 7466* (holotype, SEL).
- Stelis elegans* (Kunth) Pridgeon & M.W.Chase, Lindleyana 16(4): 262. 2001, *nom. illeg.*
Accepted Name: ***Stelis roseopunctata***.
TYPE: Colombia, *Humboldt & Bonpland s.n.* (holotype, P; fragment, W).
- Stelis elegantula* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 28. 1924.
Accepted Name: ***Stelis pusilla***.
TYPE: Colombia, *Hopp 9* (holotype, B, destroyed). Ecuador, *Hirtz & Hirtz 7542* [neotype, MO (Luer 2009a)].
- Stelis endocharis* Rchb.f., Linnaea 41: 8. 1877.
Accepted Name: ***Stelis purpurea***.
TYPE: Colombia, *Roehl s.n.* (holotype, W).
- Stelis ephippium* Luer & R.Escobar, Harvard Pap. Bot. 22(1): 39. 2017, *nom. inval.*
Accepted Name: ***Stelis sesquipedalis***.
DISTRIBUTION: COL VEN.
TYPE: Colombia, *Luer et al. 10323* (holotype, MO).
Note: Invalid for citation of two holotypes.
- Stelis exilipes* Schltr., Repert. Spec. Nov. Regni Veg.

- Beih. 27: 28. 1924.
Accepted Name: *Stelis striolata*.
TYPE: Colombia, *Hopp 41* (holotype, B, destroyed).
- Stelis floribunda* Kunth, Nov. Gen. Sp. (folio ed.) 1: 362. 1815 [1816].
Accepted Name: *Stelis oblonga*.
TYPE: Colombia, *Humboldt & Bonpland s.n.* (holotype, P).
- Stelis fruticululus* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 88. 1920.
Accepted Name: *Stelis truncata*.
TYPE: Colombia, *Lehmann 8214* [holotype, B, destroyed; lectotype (selected here), K-000573931; isolectotypes, AMES-00084207, LE-00001393, NY-00009395].
- Stelis gustavii* O.Duque, Orquideología 20(3): 348–350. 1997.
Accepted Name: *Stelis dressleri*.
TYPE: Colombia, *Duque 1835* (holotype, JAUM).
- Stelis hemicardia* Rchb.f., Linnaea 41: 8. 1877.
Accepted Name: *Stelis purpurea*.
TYPE: Colombia, *Roehl s.n.* (holotype, W).
- Stelis herbiola* Lindl., Fol. Orchid. ~Stelis~ 10. 1852–1855 [1859].
Accepted Name: *Stelis pusilla*.
TYPE: Colombia, *Holton s.n.* (holotype, K).
- Stelis inedita* Luer & R.Escobar, Harvard Pap. Bot. 22(1): 48. 2017.
Accepted Name: *Stelis vulcani*.
TYPE: Colombia, *Luer et al. 7655* (holotype, SEL).
- Stelis insignis* Ames, Sched. Orch. 1: 5. 1922.
Accepted Name: *Stelis oblonga*.
TYPE: Colombia, *Pittier 1299* (holotype, US-531497; AMES, 25099).
- Stelis lobata* Rchb.f., Bonplandia (Hannover) 3: 241. 1855.
Accepted Name: *Stelis elongata*.
TYPE: Colombia, *Jameson 481* (holotype, W; isotypes, BM, BR, G, LE).
- Stelis macrocarpa* Kunth, Nov. Gen. Sp. (quarto ed.) 1: 363. 1816.
Accepted Name: *Stelis purpurea*.
TYPE: Colombia, *Humboldt & Bonpland s.n.* (holotype, P).
- Stelis melanoxantha* Rchb.f., Bonplandia (Hannover) 3: 71. 1855.
Accepted Name: *Stelis purpurea*.
TYPE: Colombia, *Wagener s.n.* (holotype, W).
- Stelis minimiflora* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 31. 1924.
Accepted Name: *Stelis braccata*.
TYPE: Colombia, *Hopp 171* (holotype, B, destroyed).
- Stelis mononeura* Lindl., Fol. Orchid. ~Stelis~ 4, no. 25. 1852–1855 [1859].
Accepted Name: *Stelis euspatha*.
TYPE: Colombia, *Jameson s.n.* (holotype, K).
- Stelis myriantha* Schltr., Repert. Spec. Nov. Regni Veg. 7: 90. 1920, *nom. illeg.*
Accepted Name: *Stelis tenuilabris*.
TYPE: Colombia, *Lehmann 6920* [holotype, B, destroyed; lectotype (selected here), K-000573957; isolectotype, LE-00001401]. Colombia, *Luer et al. 12035* [neotype, MO (Luer 2009a), here rejected].
- Stelis navicularis* Garay, Canad. J. Bot. 34: 353. 1956.
Accepted Name: *Stelis colombiana*.
TYPE: Colombia, *John 20875* (holotype, AMES; isotype, US).
- Stelis pachyphylla* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 91. 1920.
Accepted Name: *Stelis purpurea*.
TYPE: Colombia, *Madero s.n.* [holotype, B, destroyed; lectotype (selected here), Schlechter's floral analysis published by Mansfeld (1929: Pl. 31, No. 116)].
- Stelis patella* O.Duque, Orquideología 27(2): 134, 137, Fotos 48–50, fig. 18. 2010.
Accepted Name: *Stelis asseris*.
TYPE: Colombia, *Duque 196* (holotype, JAUM).
- Stelis pastoensis* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 35. 1924.
Accepted Name: *Stelis oblongifolia*.
TYPE: Colombia, *Hopp 150* (holotype, B, destroyed).
- Stelis picta* Pridgeon & M.W.Chase, Lindleyana 17(2): 100. 2002.
Accepted Name: *Stelis roseopunctata*.
TYPE: Colombia, *Humboldt & Bonpland s.n.* (holotype, P; isotype, W).
- Stelis pinguis* Luer & R.Escobar, Harvard Pap. Bot. 21(1): 82. 2016.
Accepted Name: *Stelis cochlearis*.
TYPE: Colombia, *Luer et al. 8747* (holotype, SEL).
- Stelis pleurothalloides* Ames, Orchidaceae 7: 132. 1922.
Accepted Name: *Stelis furfuracea*.
TYPE: Colombia, *Pittier 1156* (holotype, US; iso-

- type, AMES).
- Stelis prionota* Luer & R.Escobar, Harvard Pap. Bot. 21(2): 216. 2016.
Accepted Name: ***Stelis cochlearis***.
TYPE: Colombia, *Luer 16696* (holotype, MO).
- Stelis purdiaei* Lindl., Fol. Orchid. ~Stelis~ 5, no. 31. 1852–1855 [1859].
Accepted Name: ***Stelis pugiunculi***.
TYPE: Colombia, *Purdie s.n.* (holotype, K; isotype, GH-00104938).
- Stelis ringens* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 37. 1924.
Accepted Name: ***Stelis velutina***.
TYPE: Colombia, *Hopp 49* (holotype, B, destroyed).
- Stelis robusta* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 38. 1924, *nom. illeg.*
Accepted Name: ***Stelis purpurea***.
TYPE: Colombia, *Hopp 56* (holotype, B, destroyed).
- Stelis robustior* Garay, Bot. Mus. Leaflet. 27: 185. 1979.
Accepted Name: ***Stelis purpurea***.
TYPE: Colombia, *Hopp 56* (holotype, B, destroyed).
- Stelis scandens* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 39. 1924, *nom. illeg.*
Accepted Name: ***Stelis polyclada***.
TYPE: Colombia, *Hopp 151* (holotype, B, destroyed).
- Stelis stella* O.Duque, Orquideología 20(3): 373, 374. 1997.
Accepted Name: ***Stelis tridactylon***.
TYPE: Colombia, *Duque 1143* (holotype, JAUM).
- Stelis tenuis* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 94. 1920.
Accepted Name: ***Stelis pusilla***.
TYPE: Colombia, *Lehmann 6039* [holotype, B, destroyed; lectotype (selected here), K-000573948; isoelectotypes, AMES-00105004, NY-00009416, LE-00001407, US-00093597].
- Stelis tonsoria* Luer, Phytologia 49(3): 239. 1981.
Accepted Name: ***Stelis langlassei***.
TYPE: Colombia, *Luer et al. 4579* (holotype, SEL).
- Stelis trianaei* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 94. 1920.
Accepted Name: ***Stelis scansor***.
TYPE: Colombia, *Triana 566* [holotype, B, destroyed; lectotype (selected here), P-00489435; isoelectotypes, AMES-00084457, BM-000082571, US-00093598].
- Stelis umbelliformis* subsp. *brevipedunculata* Carnevali & I.Ramírez, Novon 3(2): 121. 1993.
Accepted Name: ***Stelis umbelliformis***.
TYPE: Colombia, *Benavides 4284* (holotype, PSO; isotype, MO).
- Stelis vagans* Ames, Sched. Orch. 1: 8. 1922.
Accepted Name: ***Stelis prorepens***.
TYPE: Colombia, *Pittier 1061* (holotype, US-531263).
- Stelis velaticauloides* (Kolan. & Szlach.) Karremans, Phytotaxa 496(2): 142. 2021.
Accepted Name: ***Stelis pennelliana***.
TYPE: Colombia, *Pennell 2043* (holotype, AMES; drawing, UGDA).
- Stelis virgulata* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 40. 1924.
Accepted Name: ***Stelis truncata***.
TYPE: Colombia, *Hopp 44* (holotype, B).
- Trichosalpinx carinatus* Rykacz., Szlach. & Kolan., Ann. Bot. Fenn. 55(1–3): 146. 2018.
Accepted Name: ***Pendusalpinx patula***.
TYPE: Colombia, *Schneider 353* (holotype, AMES; isotype, UGDA).
Note: This appears to be based on an imprecise illustration of a dried specimen of *P. patula*.
- Trichosalpinx dithele* Luer & R.Escobar, Orquideología 16: 181. 1984.
Accepted Name: ***Trichosalpinx semilunata***.
TYPE: Colombia, *Luer et al. 9044* (holotype, SEL).
- Trichosalpinx falcipetala* (Schltr.) Luer, Phytologia 54(5): 395. 1983.
Accepted Name: ***Stellamaris pergrata***.
TYPE: Colombia, *Lehmann 2045* (holotype, B, destroyed). Colombia, *Lehmann 8245* [neotype, K (Luer 1997)].
- Trichosalpinx lancifera* (Schltr.) Luer, Phytologia 54(5): 396. 1983.
Accepted Name: ***Trichosalpinx orbicularis***.
TYPE: Colombia, *Hopp 67* (holotype, B, destroyed).
- Trichosalpinx pyxos* (Luer & R.Escobar) Luer, Phytologia 54(5): 397. 1983.
Accepted Name: ***Karma amygdalora***.
TYPE: Colombia, *Luer et al. 3047* (holotype, SEL).
- Trichosalpinx vertex* Luer & R.Escobar, Orquideología 16(2): 186. 1984.
Accepted Name: ***Karma tenuis***.
TYPE: Colombia, *Luer & Escobar 8488* (holotype, SEL; isotypes, COL, JAUM).

EXCLUDED TAXA

- Acianthera capillaris* (Lindl.) Pridgeon & M.W.Chase.
Cited by Betancur *et al.* (2015) and Bernal *et al.* (2016), here treated as *Acianthera floribunda*.
- Acianthera cogniauxiana* (Schltr.) Pridgeon & M.W.Chase.
Cited by Betancur *et al.* (2015), Bernal *et al.* (2016) and Govaerts (2022), no available voucher.
- Acianthera ellipsophylla* (L.O. Williams) Pridgeon & M.W.Chase.
Cited by Betancur *et al.* (2015), no available voucher.
- Acianthera glumacea* (Lindl.) Pridgeon & M.W.Chase.
Cited by Betancur *et al.* (2015), no available voucher.
- Acianthera rubroviridis* (Lindl.) Pridgeon & M.W.Chase.
Cited by Betancur *et al.* (2015), Bernal *et al.* (2016) and Govaerts (2022), no available voucher.
- Acianthera strupifolia* (Lindl.) Pridgeon & M.W.Chase.
Cited by Betancur *et al.* (2015), no available voucher.
- Anathallis acuminata* (Kunth) Pridgeon & M.W.Chase.
Treated here as a synonym of *Stelis aurea*.
- Anathallis ciliolata* (Schltr.) Pridgeon & M.W.Chase.
Cited by Betancur *et al.* (2015), Bernal *et al.* (2016) and Govaerts (2022), no available voucher.
- Anathallis dolichopus* (Schltr.) Pridgeon & M.W.Chase.
This is a Central American species. Colombian materials are referable to *Stelis sclerophylla*.
- Anathallis funerea* (Barb.Rodr.) Luer.
Cited by Betancur *et al.* (2015), Bernal *et al.* (2016) and Govaerts (2022), no available voucher. It is highly likely to occur in the country.
- Anathallis marginata* (Barb.Rodr.) F.Barros & Barberena.
Cited by Betancur *et al.* (2015), no available voucher.
- Anathallis microphyta* (Barb.Rodr.) C.O.Azevedo & Van den Berg.
Cited by Betancur *et al.* 2015, no available voucher.
- Anathallis stenophylla* (F.Lehm. & Kraenzl.) Pridgeon & M.W.Chase.
Treated here as a synonym of *Stelis melanopus*.
- Anathallis taracuana* (Schltr.) F.Barros & Barberena.
Cited by Betancur *et al.* (2015), no available voucher.
- Anathallis ypirangae* (Kraenzl.) Pridgeon & M.W.Chase.
Cited by Betancur *et al.* (2015), no available voucher.
- Ancipitia jimii* (Luer) Luer.
An invalid name, treated here as a synonym of *Pleurothallis lueriana*.
- Andinia persimilis* (Luer & Sijm) Karremans & S.Vieira-Uribe.
Colombian specimens labeled *A. aff. persimilis* in Karremans & S.Vieira-Uribe (2020) are not that species and belong to an undescribed taxon.
- Dracula dodsonii* (Luer) Luer.
Cited by Bernal *et al.* (2016) and Govaerts (2022), no available voucher.
- Dracula pusilla* (Rolfe) Luer.
Cited by Bernal *et al.* (2016), no available voucher.
- Dryadella perpusilla* (Kraenzl.) Luer.
Cited by Betancur *et al.* (2015), no available voucher.
- Dryadella summersii* (L.O. Williams) Luer.
Cited by Betancur *et al.* (2015), no available voucher.
- Echinosepala uncinata* (Fawc.) Pridgeon & M.W.Chase.
Colombian specimens are treated as *E. isthmica* following Pupulin *et al.* (2020).
- Fronitaria caulescens* (Lindl.) Luer.
Colombian specimens are treated as *F. colombiana* following Szlachetko *et al.* (2018).
- Lepanthes actias-luna* Luer & Hirtz.
Cited by Betancur *et al.* (2015), no available voucher.
- Lepanthes capitana* Rchb.f.
Cited by Betancur *et al.* (2015), most likely a misidentified voucher.
- Lepanthes crista-pulli* Luer & R.Escobar.
Cited by Betancur *et al.* (2015), no available voucher.
- Lepanthes erinacea* Rchb.f.
Cited by Betancur *et al.* (2015), no available voucher.
- Lepanthes esmeralda* Luer & Hirtz.
Cited by Betancur *et al.* (2015), no available voucher.
- Lepanthes hagsateri* Salazar & Soto Arenas.
Cited by Betancur *et al.* (2015), no available voucher.
- Lepanthes helicocephala* Rchb.f.
Cited by Bernal *et al.* (2016), no available voucher.
- Lepanthes juninensis* Schltr.
Cited by Betancur *et al.* (2015), most likely based on a misidentified voucher.
- Lepanthes lindleyana* Oerst. & Rchb.f.
Cited by Betancur *et al.* 2015, most likely based on a misidentified voucher.
- Lepanthes lloensis* Luer.
Cited by Betancur *et al.* (2015), no available voucher.
- Lepanthes megalostele* Luer.
Cited by Betancur *et al.* (2015) based on a misidentified specimen in Misas Urreta (2005).
- Lepanthes nanegalensis* Rchb.f.

- Cited by Betancur *et al.* (2015) and Bernal *et al.* (2016), no available voucher.
- Lepanthes pan* Luer & Dalström.
Cited by Betancur *et al.* (2015) based on a misidentified specimen in Misas Urreta (2005).
- Lepanthes plectilis* Luer & Hirtz.
Cited by Betancur *et al.* 2015, no available voucher.
- Lepanthes pumila* C.Schweinf.
Cited by Betancur *et al.* 2015, most likely based on misidentified vouchers.
- Lepanthes rabei* Foldats, Acta Bot. Venez. 3: 41. 1968.
Cited by Betancur *et al.* (2015), here treated as a synonym of *L. aquila-borussiae*.
- Lepanthes rotundifolia* L.O. Williams.
Cited by Betancur *et al.* (2015), no available voucher.
- Lepanthes rubripetala* Stimson.
Cited by Betancur *et al.* (2015), no available voucher.
- Lepanthes rupestris* Stimson.
Cited by Betancur *et al.* (2015), no available voucher.
- Lepanthes rupicola* Schltr.
Cited by Betancur *et al.* (2015), no available voucher.
- Lepanthes ruscifolia* Rchb.f.
Cited by Betancur *et al.* (2015), no available voucher.
- Lepanthes saltatrix* Luer & Hirtz.
Cited by Bernal *et al.* (2016) and Govaerts (2022), no available voucher.
- Lepanthes samacensis* Ames.
Cited by Betancur *et al.* (2015), most likely a misidentified voucher.
- Lepanthes unitrinervis* Carnevali & I. Ramírez.
Cited by Betancur *et al.* (2015), no available voucher.
- Masdevallia alphonsiana* A.Doucette ex L.E.Matthews.
Cited by Govaerts (2022), no available voucher.
- Masdevallia biflora* Regel.
Cited by Govaerts (2022), no available voucher.
- Masdevallia bulbophyllopsis* Kraenzl.
Cited by Bernal *et al.* (2016), no available voucher.
- Masdevallia ensata* Rchb.f.
Cited by Bernal *et al.* (2016) and Govaerts (2022), no available voucher.
- Masdevallia fulvescens* Rolfe.
Cited by Govaerts (2022), no available voucher.
- Masdevallia kuhniorum* Luer.
Cited by Govaerts (2022), no available voucher.
- Masdevallia lehmannii* Rchb.f.
Cited by Bernal *et al.* (2016), no available voucher.
- Masdevallia maculata* Klotzsch & H.Karst.
Cited by Govaerts (2022), no available voucher.
- Masdevallia navicularis* Garay & Dunst.
Cited by Bernal *et al.* (2016), no available voucher.
- Masdevallia pachygyne* Kraenzl.
Cited by Govaerts (2022), no available voucher.
- Masdevallia virgo-cuencae* Luer & Andreetta.
Cited by Bernal *et al.* (2016) and Govaerts (2022), no available voucher.
- Masdevallia xiphium* Rchb.f. ex Kraenzl.
Cited by Govaerts (2022), no available voucher.
- Myoxanthus speciosus* (Luer) Luer.
Here treated as a synonym of *M. exasperatus* following Rojas-Alvarado *et al.* (2021).
- Octomeria amazonica* Pabst.
Cited by Betancur *et al.* (2015) and Bernal *et al.* (2016), a synonym of *O. colombiana* sensu Luer (2010).
- Octomeria chloidophylla* (Rchb.f.) Garay.
Cited by Betancur *et al.* (2015) and Govaerts (2022), no available voucher.
- Octomeria erosilabia* C.Schweinf.
Cited by Betancur *et al.* (2015), Bernal *et al.* (2016) and Govaerts (2022), a synonym of *O. longifolia* sensu Luer (2010).
- Octomeria minor* C.Schweinf.
Cited by Betancur *et al.* (2015), no available voucher.
- Octomeria schultesii* Pabst.
Cited by Bernal *et al.* (2016) and Govaerts (2022), a synonym of *O. longifolia* sensu Luer (2010).
- Octomeria surinamensis* H.Focke.
Here treated as a synonym of *O. tridentata* Lindl. following Luer (2010).
- Pabstiella parvifolia* (Lindl.) Luer.
Cited by Bernal *et al.* (2016) and Govaerts (2022), but this is a Brazilian endemic. Colombian materials are referable to *Andreettaea cryptophyta* (Barb.Rodr.) A.Doucette (see Karremans & Vieira-Urbe 2020).
- Platystele brenneri* Luer.
Cited by Betancur *et al.* (2015) based on a misidentified specimen in Misas Urreta (2005).
- Platystele compacta* (Ames) Ames.
Cited by Betancur *et al.* (2015) based on a misidentified specimen in Misas Urreta (2005).
- Platystele cornejoi* Luer.
Cited by Cornejo (2014) as “seen” in Colombia, but no voucher is currently available.
- Platystele dressleri* Luer.
Cited by Betancur *et al.* (2015) based on a specimen

- in Misas Urreta (2005), and cited by Ortiz (1977) based a specimen therein. Those photographs and drawings suggest *Platystele argentosa* Luer & R.Escobar rather than *P. dressleri*.
- Platystele ornata* Garay.
Cited by Betancur *et al.* (2015), no available voucher.
- Platystele taylorii* Luer.
Cited by Betancur *et al.* (2015), no available voucher.
- Platystele ximena* Luer & Hirtz.
Cited by Govaerts (2022), no available voucher.
- Pleurothallis apopsis* Luer.
Cited by Betancur *et al.* (2015), no available voucher.
- Pleurothallis archicolonae* Luer.
Cited by Betancur *et al.* (2015), no available voucher.
- Pleurothallis canaliculata* Rchb.f.
Cited by Betancur *et al.* (2015), this name seems to be unpublished.
- Pleurothallis capillaris* Lindl., Edwards's Bot. Reg. 21: sub t. 1797. 1836.
Here treated as *Acianthera floribunda*.
- Pleurothallis cornualis* Luer.
Cited by Betancur *et al.* (2015), Bernal *et al.* (2016) and Govaerts (2022), no available voucher.
- Pleurothallis cuscifolia* R.Br.
Cited by Betancur *et al.* (2015), but this is simply a misspelled name.
- Pleurothallis foliosa* Hook.
Cited by Betancur *et al.* (2015), this name applies to a *Gomesa* species.
- Pleurothallis gargantua* Luer.
Cited by Betancur *et al.* (2015), no available voucher.
- Pleurothallis longipedicellata* Ames & C.Schweinf.
Cited by Betancur *et al.* (2015), no available voucher.
- Pleurothallis luctuosa* Rchb.f.
Colombian materials are referable to *Pleurothallis tenuisepala* Mark Wilson (see Wilson *et al.* 2019).
- Pleurothallis miserrima* Lindl.
Cited by Betancur *et al.* (2015), this name seems to be unpublished.
- Pleurothallis ophioccephala* Lindl., Edwards's Bot. Reg. 24: Misc. 34. 1838.
This widespread species could occur in Colombia. However, at this time we are not able to cite any voucher to support its inclusion. A widely cited specimen at JAUM with the number *Ospina 81* (Betancur *et al.* 2015, Bernal *et al.* 2016) is actually a specimen of *Pleurothallis peduncularis* Lindl. (= *Myoxanthus parahybunensis*) not *Pleurothallis peduncularis* Hook. (= *Pleurothallis ophioccephala*).
- Pleurothallis parviflora* Luer.
Cited by Betancur *et al.* (2015), but the voucher is of *Andreettaea cryptophyta* (Barb.Rodr.) A.Doucette (see Karremans & Vieira-Urbe 2020).
- Pleurothallis perryi* Luer.
Cited by Betancur *et al.* (2015), no available voucher.
- Pleurothallis raymondi* Rchb.f.
Cited by Betancur *et al.* (2015), but this is simply a misspelled name.
- Pleurothallis subsinuata* Lindl.
Cited by Betancur *et al.* (2015) and Govaerts (2022), no available voucher. This taxon is of unknown country of origin and definitively belongs in genus *Specklinia*.
- Pleurothallis suspensa* Luer.
Cited by Betancur *et al.* (2015) and Govaerts (2022), no available voucher.
- Pleurothallis tentaculata* (Poepp. & Endl.) Lindl.
Cited by Betancur *et al.* (2015), Bernal *et al.* (2016) and Govaerts (2022), no available voucher.
- Pleurothallis tetrachaeta* Luer & Hirtz.
Cited by Betancur *et al.* (2015), no available voucher.
- Pleurothallis trachysepala* Kraenzl.
Here treated as a synonym of *P. cordata*.
- Pleurothallis rubella* Luer.
Here treated as a synonym of *Platystele aurea* Garay.
- Pleurothallis virens* Lindl.
Cited by Betancur *et al.* (2015), this name seems to be unpublished.
- Restrepia roseola* Luer & R.Escobar.
Cited by Bernal *et al.* (2016), no available voucher.
- Restrepiella ophioccephala* (Lindl.) Garay & Dunst., Venez. Orchid. Ill. Vol. 1. 4: 266. 1966.
This widespread species could occur in Colombia. However, at this time we are not able to cite any voucher to support its inclusion. A widely cited specimen at JAUM with the number *Ospina 81* (Betancur *et al.* 2015, Bernal *et al.* 2016) is actually a specimen of *Pleurothallis peduncularis* Lindl. (= *Myoxanthus parahybunensis*) not *Pleurothallis peduncularis* Hook. (= *Restrepiella ophioccephala*).
- Specklinia alata* (A. Rich. & Galeotti) Solano & Soto Arenas.
Cited by Betancur *et al.* (2015), this name is a synonym of *Andreettaea marginata* (Rich.) A.Dou-

- cette a taxon known only from northern Middle America. The authors probably mean another *Andreettaea* or *Specklinia* species.
- Specklinia aristata* (Hook.) Pridgeon & M.W.Chase.
Cited by Dodson (1992), Misas Urreta (2005), Betancur *et al.* (2015), Bernal *et al.* (2016), and Govaerts (2022). It is likely that this species occurs in Colombia, however none of the materials that we have inspected bearing this name are correctly identified. The specimen *Misas-Urreta 114* (HPUJ) corresponds to *Andreettaea clavigera*, while the photograph in Ortiz & Uribe 2007 (CD Edition) depicts *Andreettaea barberiana*.
- Specklinia bicornis* (Luer) Pridgeon & M.W.Chase.
Cited by Betancur *et al.* (2015), no available voucher.
- Specklinia endotrachys* (Rchb.f.) Pridgeon & M.W.Chase.
Colombian specimens cited by Misas Urreta (2006) and Luer (2007) are referable to *S. dunstervillei*, the true *S. endotrachys* is endemic to Costa Rica.
- Specklinia lanceola* (Sw.) Lindl.
Cited by Bernal *et al.* (2016) and Govaerts (2022), no available voucher. The voucher cited by Betancur *et al.* (2015) is an unrelated species in *Specklinia* subgen. *Sarcinula* Karremans.
- Specklinia remotiflora* Pupulin & Karremans.
Colombian specimens cited by Pupulin *et al.* (2012) are referable to *S. dunstervillei*.
- Specklinia uniflora* (Lindl.) Pridgeon & M.W.Chase.
Cited by Betancur *et al.* (2015), no available voucher.
- Stelis argentea* Lindl.
Cited by Betancur *et al.* (2015), but this is simply a misspelled name.
- Stelis deregularis* Barb.Rodr.
Cited by Betancur *et al.* (2015), no available voucher. It is likely to occur in Colombia given widespread this species is.
- Stelis flaccida* (Klinge) Pridgeon & M.W.Chase.
Cited by Betancur *et al.* (2015) and Bernal *et al.* (2016). This is an obscure taxon of unknown origin and it belongs in genus *Specklinia*.
- Stelis humilis* Lindl.
Cited by Dorr (2014) as likely to occur as it has been collected close to the border in Venezuela, no available voucher.
- Stelis grossilabris* Rchb.f.
Treated here as a synonym of *Stelis grandiflora*.
- Stelis guatemalensis* Schltr.
Treated here as a synonym of *Stelis pardipes*.
- Stelis muscifera* Lindl.
Treated here as a synonym of *Stelis grandiflora*.
- Stelis nanegalensis* Lindl.
Treated here as a synonym of *Stelis superbiens*.
- Stelis neorubens* Chiron.
Treated here as a synonym of *Stelis montserrati*.
- Stelis ophioglossoides* (Jacq.) Sw.
Cited by Betancur *et al.* (2015), no available voucher.
- Stelis polybotrya* Lindl.
Cited by Bernal *et al.* (2016), no available voucher.
- Stelis punctulata* (Rchb.f.) Soto Arenas.
Type erroneously labeled *Neu Granada*, but known only from Central America (see Luer 2006)
- Stelis punoensis* C.Schweinf.
Treated here as a synonym of *Stelis dupliciformis*.
- Stelis quinquenervia* C.Schweinf.
Cited by Bernal *et al.* (2016), no available voucher.
- Stelis rostrata* Luer.
Cited by Betancur *et al.* (2015), this is a nomenclatural synonym of *S. septicola*.
- Stelis scabrida* Lindl.
Cited by Betancur *et al.* (2015), this is a synonym of *S. ophioglossoides* a species from the Lesser Antilles.
- Stelis segoviensis* (Rchb.f.) Pridgeon & M.W.Chase.
Cited by Betancur *et al.* (2015), no available voucher.
- Stelis transversalis* Ames.
Cited by Bernal *et al.* (2016), no available voucher.
- Stelis tricardium* Lindl.
Cited by Dodson (1992), no available voucher.
- Stelis villosa* (Knowles & Westc.) Pridgeon & M.W.Chase.
Cited by Bernal *et al.* (2016), no available voucher.
- Stelis vulcanica* Schltr.
Cited by Betancur *et al.* (2015), this is a synonym of *S. superbiens*.
- Stelis wagneri* (Schltr.) Pridgeon & M.W.Chase.
Cited by Luer (1998b), Bernal *et al.* (2016), no available voucher.
- Stelis yangaensis* Luer & Hirtz.
Cited by Betancur *et al.* (2015), no available voucher.
- Teagueia teaguei* (Luer) Luer.
Cited by Betancur *et al.* (2015), no available voucher.
- Trichosalpinx cedralensis* (Ames) Luer.
Cited by Betancur *et al.* (2015), no available voucher.
- Trichosalpinx montana* (Barb.Rodr.) Luer.

- Betancur *et al.* (2015) cite *Ospina 86* (JAUM) as voucher, but this a misidentified specimen.
- Trichosalpinx quitensis* (Rchb.f.) Luer.
Bernal *et al.* (2016) cite *Ospina 86* (JAUM) as voucher, but this a misidentified specimen.
- Trichosalpinx xiphochila* (Rchb.f.) Luer.
Cited by Betancur *et al.* (2015), this is an obscure taxon from Venezuela which probably belongs in genus *Platystele* instead of *Trichosalpinx*.
- Yolanda floribunda* (Garay) Brieger.
Treated here as a synonym of *Brachionidium tuberculatum*.
- Zootrophion gracilentum* (Rchb.f.) Luer.
Cited by Betancur *et al.* (2015), no available voucher.
- Zootrophion griffin* Luer.
Cited by Uribe-Vélez & Sauleda (2023), the illustrated species is actually *Zootrophion machaqway* A.Doucette & J. Portilla.
- Zootrophion moorei* (Rolfe) Luer.
Treated here as a synonym of *Zootrophion hypodiscus*.
- Zosterophyllanthos formix* (Luer & R.Escobar) Szlach. & Marg.
Treated here as a synonym of *Pleurothallis calceolaris*.
- Zosterophyllanthos granularis* (Luer & R.Escobar) Szlach. & Marg.
Treated here as a synonym of *Pleurothallis platysepala*.
- Zosterophyllanthos monocardius* (Rchb.f.) Szlach. & Marg.
Treated here as a synonym of *Pleurothallis cordata*.
- Zosterophyllanthos northenae* (Luer) Szlach. & Marg.
Treated here as a synonym of *Pleurothallis latipetala*.
- Zosterophyllanthos pulvinipes* (Schltr.) Szlach. & Marg.
Treated here as a synonym of *Pleurothallis macrocardia*.

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A NEW SPECIES OF *PLEUROTHALLIS* (PLEUROTHALLIDINAE) FROM THE SOUTHWESTERN ANDES OF COLOMBIA IN THE NATIONAL NATURAL PARK FARALLONES DE CALI

JUAN SEBASTIÁN MORENO^{1-3,6}, ROBINSON GALINDO-TARAZONA¹,
MELISA ALEGRÍA-VALENCIA^{3,4}, MARK WILSON⁵ & ALEJANDRO ZULUAGA TRÓCHEZ^{3,4}

¹Parques Nacionales Naturales de Colombia, Dirección Territorial Pacífico,
Carrera 117 # 16B-00, Cali, Colombia.

²Grupo de Investigación Schultes, Fundación Ecotonos, Cali, Colombia.

³Departamento de Biología, Universidad del Valle, Calle 13 # 100-00, Cali, Colombia

⁴Grupo de Investigación Ecología y Diversidad Vegetal, Universidad del Valle,
Calle 13 # 100-00, Cali, Colombia.

⁵Department of Organismal Biology and Ecology, Colorado College, 14 East Cache La Poudre,
Colorado Springs, 80903, USA.

⁶Author for correspondence: juan.moreno.silva@correounivalle.edu.co

ABSTRACT. A new species of *Pleurothallis* from subsection *Macrophyllae-Fasciculatae* is described and illustrated. The new species is compared with *Pleurothallis folsomii* from Panama. *Pleurothallis celsia* is most similar to a group of species with small, yellow flowers but it can be recognized mainly by its lip, which is widely ovate, the surface and margin pilose and papillate, and the base of the glenion densely vesiculose.

RESUMEN. Se describe e ilustra una nueva especie de *Pleurothallis* de la subsección *Macrophyllae-Fasciculatae*. La especie nueva se compara con *Pleurothallis folsomii* de Panamá. *Pleurothallis celsia* es similar a un grupo de especies con flores pequeñas, amarillas, pero se puede reconocer principalmente por su labelo, que es ampliamente ovado, con la superficie y el margen pilosos y papilados, y la base del glenion densamente vesiculosa.

KEYWORDS / PALABRAS CLAVE: Alto Anchicayá, *Celsia*, Orchidaceae, sistemática, systematics, taxonomía, taxonomy

Introduction. *Pleurothallis* R.Br. (Brown 1813) is one of the most diverse genera in terms of species richness of orchids within the subtribe Pleurothallidinae. It can be found in Central America and some countries of South America with more than 500 species described to date (Karremans & Vieira-Urbe 2020, Luer 1986, 1989, 1998, 1999, 2005), and Colombia is the country with the most recorded species of *Pleurothallis*, with 247 species (Bernal *et al.* 2016, Karremans *et al.* 2023, Ministerio de Ambiente y Desarrollo Sostenible y Universidad Nacional de Colombia 2015).

The members of the *Pleurothallis* subsection *Macrophyllae-Fasciculatae* Lindl. (Lindley 1859, Luer 1986) are identifiable mainly by their sessile leaves with a typically cordate base, flowers arranged in a fascicle, lateral sepals connate into a synsepal

that is somewhat similar to the dorsal sepal, a bilobed stigma, and a lip lying on or slightly elevated above the synsepal (Luer 2005, Sierra-Ariza 2023, Wilson *et al.* 2018).

Here, we describe and illustrate a new species of *Pleurothallis* subsection *Macrophyllae-Fasciculatae* from the Tropical Moist Forest from Valle del Cauca Department in the Western Andes of Colombia, morphologically similar to a diverse group of species with small yellow flowers up to 3 cm long and cordate leaves.

Materials and methods. The description and drawings were prepared from living specimens and flowers preserved in 70% alcohol. Flowers were dissected, measured, and photographed using Celestron

Handheld Digital Microscope Pro. Vegetative structures were measured from dried material and reproductive structures from spirit material. Digital images were taken with a Nikon D750 and a Nikon 105mm f/2.8 macro lens. Sketches from living and preserved specimens were digitized, and the images were used for diagramming a draft composite template in Adobe Photoshop® CS6. A digital composite line drawing was then made (lines and stippling) in Procreate illustration application for iPad 6th generation tablet computer (Bogarín *et al.* 2019). The new species was described following the botanical terminology by Beentje (2010) and Stearn (1992). All original descriptions of related species were consulted for detailed comparisons (Luer 2005). We consulted specimens from the following herbaria: AMES, COL, CUVV, HUA, JAUM, JBB, VALLE, CAUP and MO (online), and no additional material of the new species was found.

TAXONOMIC TREATMENT

Pleurothallis celsia Gal.-Tar. & J.S.Moreno *sp. nov.* (Fig. 1–2).

TYPE: COLOMBIA. Valle del Cauca: Municipio de Buenaventura, represa del Alto Anchicayá, Parque Nacional Natural Farallones de Cali, 976 m, 23 May 2020. R. Galindo- Tarazona 1463 (holotype: CUVV). (Fig. 1–2)

DIAGNOSIS: *Pleurothallis celsia* is most similar to *Pleurothallis folsomii* (Luer & Endara) J.M.H.Shaw from which it can be distinguished by having a 3-veined dorsal sepal (*vs.* 5-veined) and most notably by its lip, which is widely ovate, the surface and margin pilose and papillate, with the base of the glenion densely vesiculose (*vs.* ovate, the surface smooth and the margins serrate, the base of the glenion smooth).

Plant epiphytic, caespitose, erect to suberect, 15.6–23.0 cm tall. *Roots* slender, up to 0.64 mm in diameter. *Ramicauls* 12.4–19.8 cm long, with a tubular sheath on the lower third and two other sheaths at the base, the sheaths papyraceous, light brown. *Leaf* coriaceous, ovate, acuminate to long acuminate, 7.8–8.2 × 3.85–3.95 cm, the base deeply cordate. *Inflorescence*

a fascicle of successive flowers, up to 4 simultaneous flowers, enclosed at the base by a spathaceous bract *ca.* 1.07 cm long; *peduncle* terete, 1.86–2.61 mm long; *floral bract* tubular, papyraceous, acute, 5.11–6.98 mm long. *Pedicel* terete, 7.7–8.35 mm long. *Ovary* verrucose, terete, longitudinally sulcate, 4.36–4.69 mm long. *Flowers* with the perianth yellow. *Sepals*, membranaceous, glabrous. *Dorsal sepal*, lanceolate, obtuse, 7.21–9.18 × 2.98–4.22 mm, 3-veined, the veins carinate on the adaxial surface. *Lateral sepals* connate into an ovate, acute synsepal, concave at base, 6.08–7.83 × 4.39–5.34 mm, 6-veined. *Petals*, linear, falcate, the surface and margin pilose, acute, 3.43–4.85 × 1.06–1.25 mm, 1-veined. *Lip*, fleshy, widely-ovate, rounded, the surface and margin pilose and papillate, 2.06–2.83 × 1.76–2.54 mm, 3-veined, central lip shallowly concave at the base of the glenion, the glenion obovate, the base with two rounded and elevated, pronounced lobes, densely vesiculose. *Column*, short, semiterete, 1.04–1.20 mm long, with a short foot, thick; stigma apical, bilobed. *Anther cap* yellow-cream, apical, obovate, papillose, 0.85 × 1.67 mm. *Pollinia* two, obovoid.

EPONYMY: In honor of the energy company CELSIA, that has contributed to the exploration, description, and conservation of the flora, in particular, orchids, in the Farallones de Cali National Natural Park in collaboration with the National Park, Universidad del Valle, and other institutions of the region. The epithet is used here as a noun in apposition.

DISTRIBUTION AND ECOLOGY: *Pleurothallis celsia* was discovered and described as an epiphyte of secondary vegetation along the edge of the roads (Fig. 3) in the western slope of the Western Cordillera, near a hydroelectric dam within the National Natural Park Farallones de Cali, where the species might be very well protected, due to the access for the general public being highly restricted (Moreno *et al.* 2020).

Discussion. *Pleurothallis celsia* (Fig 4A) belongs to a group of species with similar, concolorous yellow flowers that mainly differ by the number of veins in the sepals and the shape and indumentum of the petals and lip. The new species is morphologically most similar to *Pleurothallis folsomii* (Fig. 4B) from Pan-

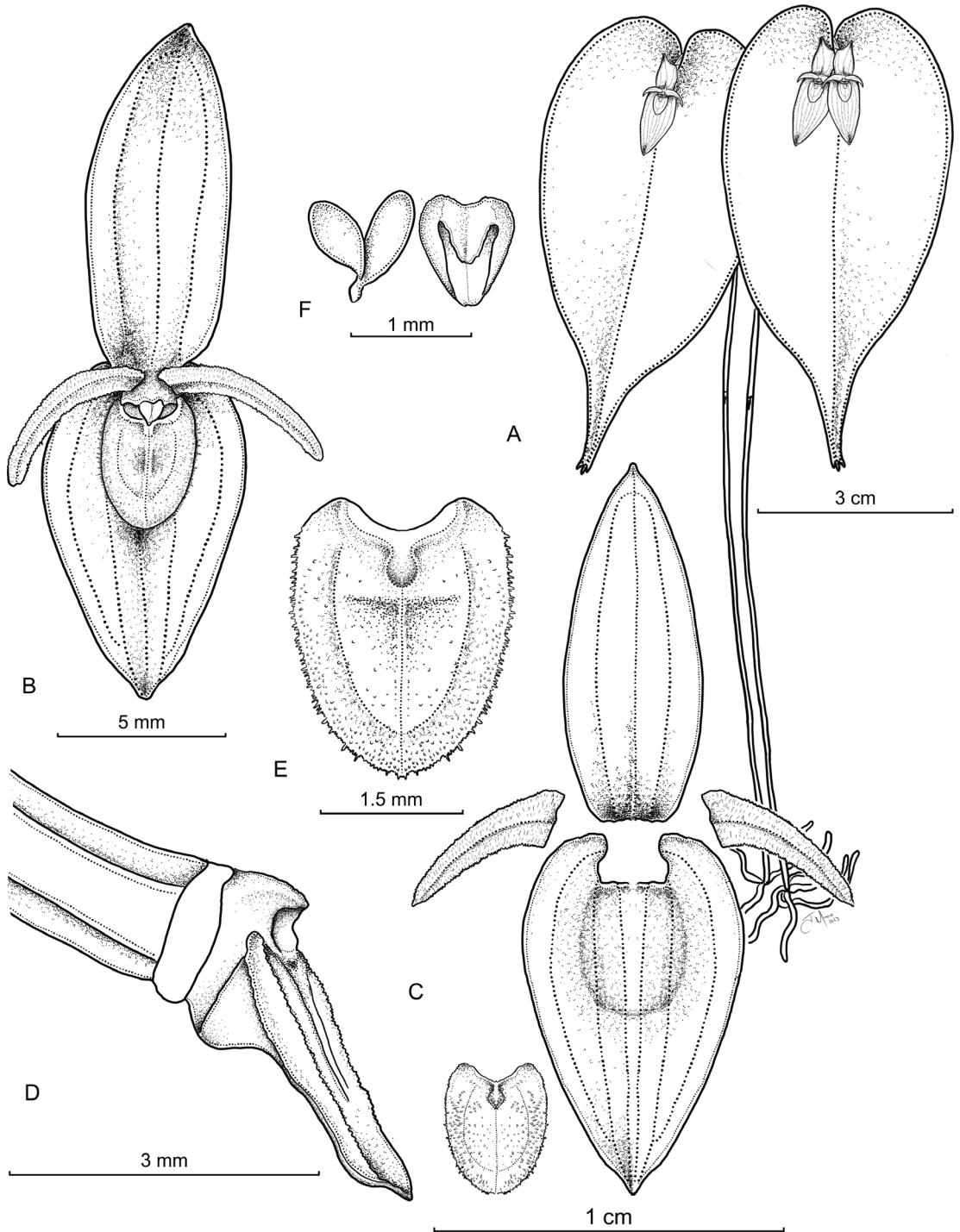


FIGURE 1. *Pleurothallis celsia* Gal.-Tar. & J.S.Moreno. **A.** Habit. **B.** Flower. **C.** Dissected perianth. **D.** Lip and column lateral view. **E.** Lip, adaxial and abaxial views. **F.** Anther cap and pollinia. Illustration by J.S.Moreno based on the type.

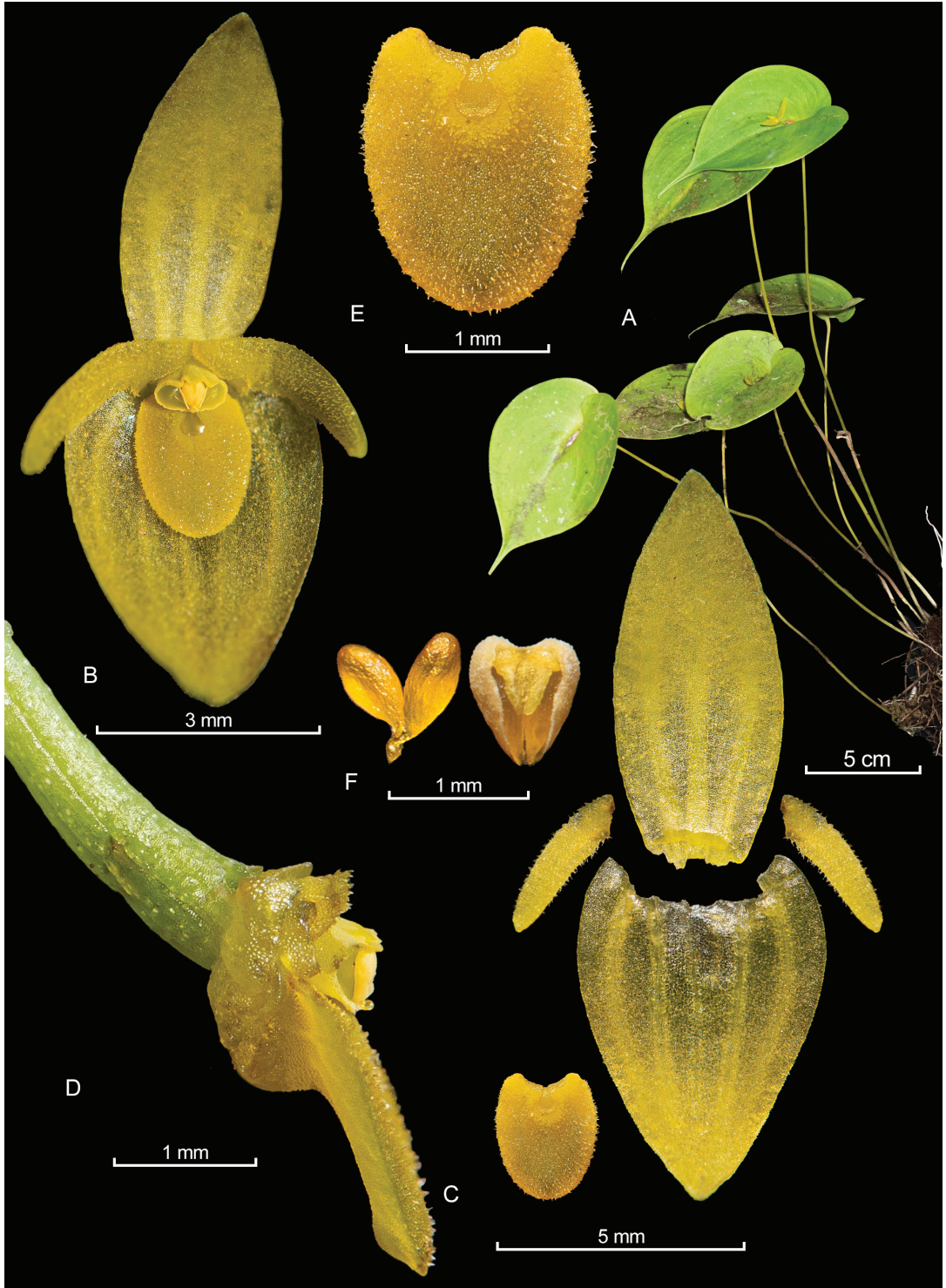


FIGURE 2. *Pleurothallis celsia* Gal.-Tar. & J.S.Moreno. A. Habit. B. Flower. C. Dissected perianth. D. Lip and column lateral view. E. Lip, adaxial and abaxial views. F. Anther cap and pollinia. LCDP by J.S.Moreno.

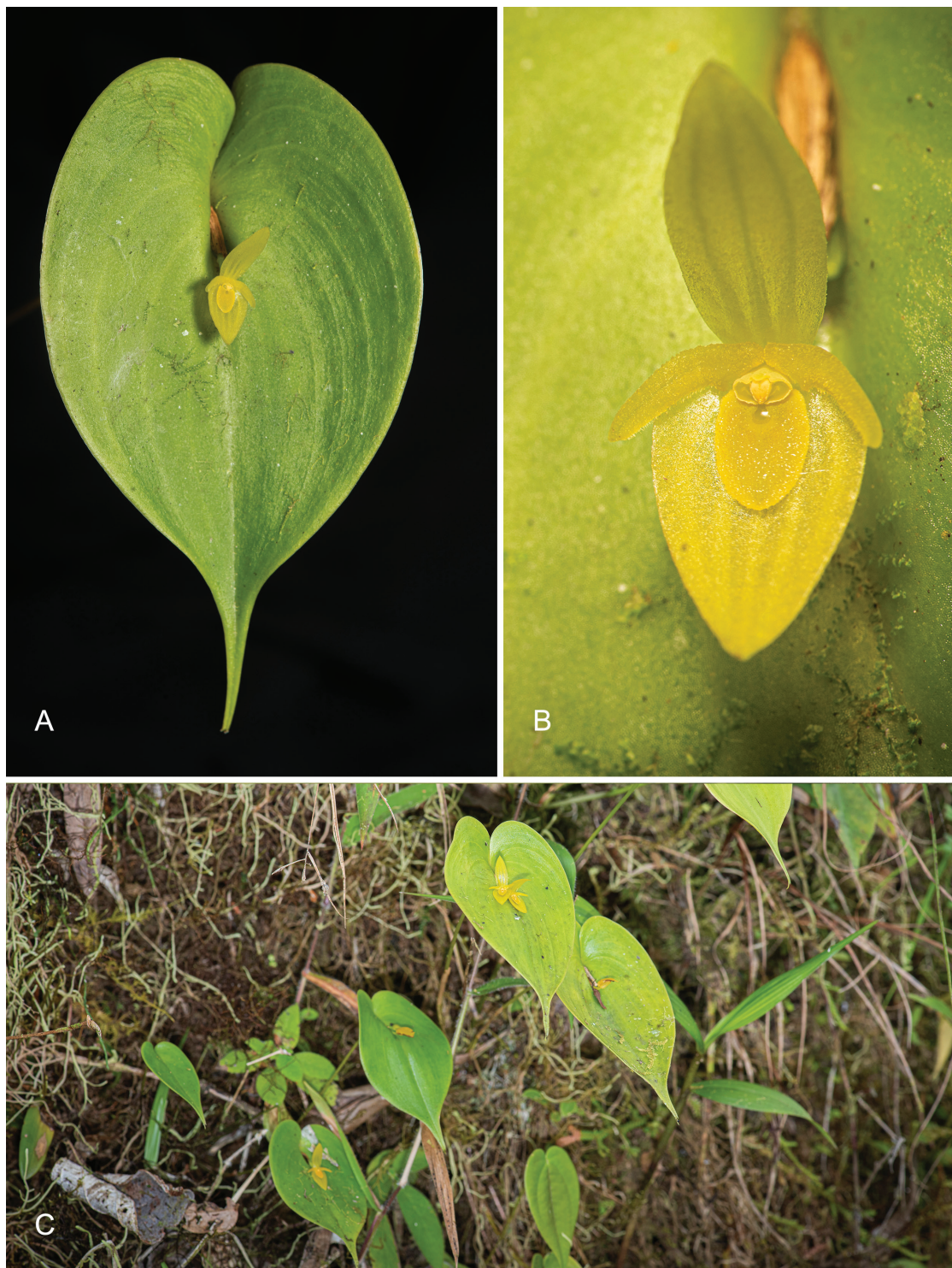


FIGURE 3. *Pleurothallis celsia* Gal.-Tar. & J.S.Moreno. A. Leaf and flower, front side. B. Flower. C. Habit and growth, *in situ*. Photographs by J.S.Moreno (A, B) and R. Galindo-Tarazona (C).

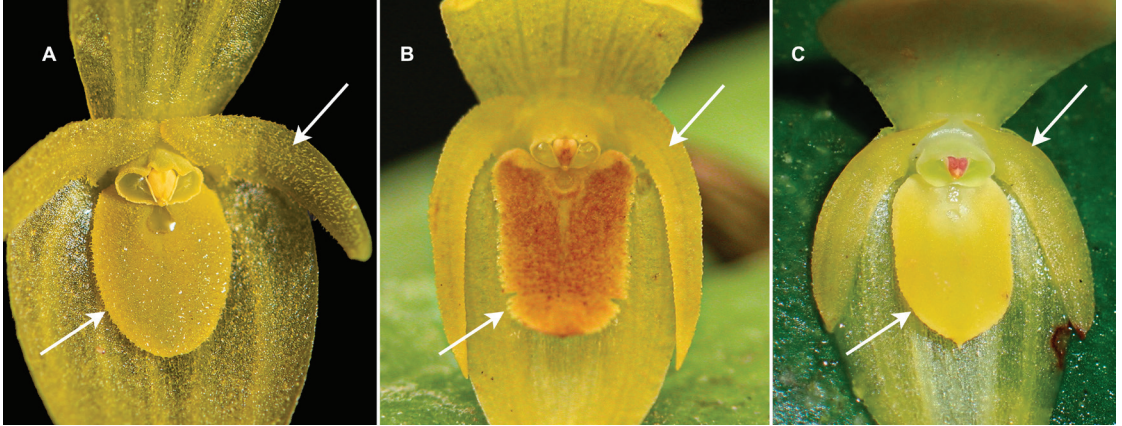


FIGURE 4. Most similar species to *Pleurothallis celsia* Gal.-Tar. & J.S.Moreno. **A.** *Pleurothallis celsia* **B.** *Pleurothallis folsomii* (Luer & Endara) J.M.H.Shaw. **C.** *Pleurothallis carduela* (Luer) J.M.H.Shaw. The white arrows show the margin and surface of the lip and petals of the three species. Photographs by J.S. Moreno (A), M. Wilson (B) and Rudy Gelis (C).

ama as mentioned in the diagnosis, but is also similar to *Pleurothallis carduela* (Luer) J.M.H.Shaw (Shaw 2016) (Fig. 4C) from Ecuador (Luer 2005), a species that is characterized by having a 7-veined dorsal sepal (*vs.* 3-veined), minutely denticulate margin of the petals and smooth indument (*vs.* margin and indument pilose) and the lip elliptical (*vs.* broadly ovate) with the indument and the margin denticulate (*vs.* indument and margin pilose and papillate).

ACKNOWLEDGEMENTS. The authors are pleased to express a sincere gratitude to the energy company CELSIA for their commitment to environmental care and their determined support for scientific research and environmental education processes in the Farallones de Cali National Natural Park - middle and upper basin of the Anchicayá River. Finally, we are very grateful to Rudy Gelis for letting us use the photo of *Pleurothallis carduela* to make the comparisons with the new species. Collections of the new species were done under permit 1070 of August 28th of 2015, modified by permit 01004 of 07 June 7th of 2019.

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***EPIDENDRUM EDQUENII* (LAELIINAE), A NEW SPECIES FROM
A MONTANE WET FOREST OF THE PRIVATE CONSERVATION AREA
LA PAMPA DEL BURRO, AMAZONAS, PERU**

JESSY P. ARISTA^{1,2}, ERIC HÁGSATER³, ELIZABETH SANTIAGO³, ELÍ PARIENTE^{2,4},
MANUEL OLIVA⁴ & GERARDO A. SALAZAR^{5,6}

¹Instituto de Investigación, Innovación y Desarrollo del Sector Agrario y Agroindustrial (IIDAA),
Universidad Nacional Toribio Rodríguez de Mendoza de Amazonas, Chachapoyas, Amazonas, Perú.

²Herbario KUELAP, Facultad de Ingeniería y Ciencias Agrarias,
Universidad Nacional Toribio Rodríguez de Mendoza de Amazonas, Chachapoyas, Amazonas, Perú.

³Herbario AMO, Montañas Calizas 490, Lomas de Chapultepec, Miguel Hidalgo,
11000 Ciudad de México, México.

⁴Instituto de Investigación para el Desarrollo Sustentable de Ceja de Selva (INDES–CES),
Universidad Nacional Toribio Rodríguez de Mendoza de Amazonas, Chachapoyas, Amazonas, Perú.

⁵Departamento de Botánica, Instituto de Biología, Universidad Nacional Autónoma de México,
04510 Ciudad de México, México.

⁶Author for correspondence: gasc@ib.unam.mx

ABSTRACT. A new species, *Epidendrum edquenii*, is described and illustrated from the Private Conservation Area La Pampa del Burro, department of Amazonas, northeastern Peru. It belongs to the informal Takulumena group, characterized by *Vanda*-like monopodial stems with basal or lateral, successive inflorescences. The new species is distinguished by its non-pubescent, red flowers with green dorsal surface, margins, and apices of the sepals and petals, yellow-green base of column and disc of lip, acuminate sepals 9.5–10.7 mm long, narrowly ovate petals with the margin densely and shortly ciliate, and widely triangular lip, 6.0 × 9.5 mm, with the margin scarcely papillose. A list and an identification key for the previously known species of the Takulumena group are provided. Furthermore, the new name *Epidendrum vulcanitungurahuae* is proposed to replace the illegitimate combination *Epidendrum tungurahuae*, predated by *E. tunguraguae*.

RESUMEN. Se describe e ilustra una nueva especie, *Epidendrum edquenii*, del Área de Conservación Privada La Pampa del Burro, departamento de Amazonas, noreste de Perú. Perteneció al grupo informal Takulumena, que se caracteriza por sus plantas monopodiales con tallos similares a *Vanda* e inflorescencias sucesivas, basales o laterales. La nueva especie se distingue por las flores rojas, no pubescentes, con superficie dorsal, márgenes y apices de sépalos y pétalos verdes, base de la columna y disco del labelo amarillo-verde, sépalos acuminados 9.5–10.7 mm de largo, pétalos angostamente ovados con el margen densa y cortamente ciliado y el labelo, ampliamente triangular, 6.0 × 9.5 mm, con el margen escasamente papiloso. Se presenta una lista y una clave para la identificación de las especies conocidas del grupo Takulumena. Se propone el nuevo nombre *Epidendrum vulcanitungurahuae* para reemplazar la combinación ilegítima *Epidendrum tungurahuae*, antecedida por *E. tunguraguae*.

KEYWORDS / PALABRAS CLAVE: Andes, clave de identificación, *Epidendrum vulcanitungurahuae*, grupo Takulumena, identification key, Takulumena group, taxonomía, taxonomy

Introduction. *Epidendrum* L. is one of the largest genera in the neotropical Orchidaceae. Hágsater *et al.* (2019) recognize approximately 1500 described species, but according to their calculations, the total number of

species reaches about 2400. These calculations are based on herbarium specimens and images of live plants with flowers recorded in AMODATA, the database of the AMO Herbarium (Hágsater & Sánchez Saldaña 2016).

ORCID of the Author: JPA , EH , ES , EP , MO , GAS 

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Epidendrum is distributed from North Carolina in the southeastern United States to Misiones in northern Argentina, with the greatest species diversity in middle- to high altitudes in the Andean Cordillera. Ongoing molecular studies of approximately 500 species (Hágsater *et al.* unpubl. data), confirm the findings of Hágsater & Soto Arenas (2005), showing that the genus is monophyletic. Within the genus are identifiable clades or species groups based on vegetative and floral characteristics, although no formal taxonomic status has been proposed. Most species of the genus have cane-like stems, a sympodial growth mode, and apical inflorescences. However, some have thickened, pseudobulbous stems, or a monopodial growth mode, and basal or lateral inflorescences. The flowers generally have the lip united to the column throughout, though there are exceptions with the lip partially or totally free from the column. Likewise, most species have four pollinia, but a few have two or eight. The pollinarium lacks a viscidium but has a viscarium, i.e., a part of the rostellum that produces glue. This glue comes into contact with the pollinarium only through the intervention of the pollinator (Dressler 1993, Dressler & Salazar 1991). After the removal of the pollinarium/viscarium, the rostellum usually shows a distinct longitudinal slit.

Historically, the circumscription of the genus *Epidendrum* has been complicated by authors who attempted to segregate subgenera or even genera (e.g., *Amblostoma* Scheidw., *Epidanthus* L.O.Williams, *Lanium* (Lindl.) Lindl. ex Benth., *Neolehmannia* Kraenzl., and *Stenoglossum* Kunth) based on vegetative characteristics like presence of pseudobulbs, or floral similarities such as large, white, star-shaped flowers, or the number of pollinia (Barringer 1991). However, molecular phylogenetic studies have shown that features such as the presence of pseudobulbs have independently evolved multiple times within the genus. Additionally, floral similarities observed among morphologically distinct species often represent convergent pollination syndromes, indicating ecological guilds rather than close phylogenetic relationships. For instance, the large, star-shaped flowers with a nocturnal fragrance of the pseudobulbous *E. ciliare* L. are nearly indistinguishable from those of the cane-like-stemmed *E. nocturnum* Jacq. and the pendulous *E. parkinsonianum* Hook., despite their belonging to distant clades (Hágsater & Soto Arenas 2005: Fig.

301–303). The common factor among these species is that they are pollinated by sphingid moths (Ackerman & Montalvo 1990, Hágsater & Soto Arenas 2005 and references therein, Moosburg *et al.* 2014). However, such noticeable morphological features easily misled taxonomists who base their decisions on superficial comparisons of a few characters arbitrarily deemed as “more important.”

The Takulumena group of *Epidendrum* (Hágsater & Santiago 2008) was proposed as a new genus by Szlachetko and collaborators (Szlachetko & Kolanowska 2014, Szlachetko *et al.* 2006, 2011). This proposal was based on the small, monopodial, *Vanda* R.Br.-like plants with imbricating, distichous leaves and a usually complicated basal inflorescence, producing new single-flowered units over several years from the base of the stem or, with age, from the lower internodes of the stem (Fig. 1–2). The species included in this group occur in Andean Venezuela, Colombia, Ecuador, and Peru. However, molecular phylogenetic studies (Granados Mendoza *et al.* 2020, Hágsater *et al.* unpubl. data) have demonstrated that this group of species, including *E. sophronitoides* F.Lehm. & Kraenzl. (type species of *Takulumena* Szlach.), is deeply nested in *Epidendrum*. Therefore, its segregation at the generic level is not justified. Here, in addition to proposing a new species, we provide a list of all the 14 species we recognize as belonging to the Takulumena group. We also include a key for their identification and color photographs when available.

Material and methods

Study area.— The Área de Conservación Privada La Pampa del Burro (ACPPB), established in 2013, covers an area of 2776.96 ha on the eastern Andean Cordillera. It belongs to Perla del Imaza, Comunidad Campesina of Yambrasbamba, province of Bongará, department of Amazonas, ca. 5° 36' 13.7" S, 77° 59' 26.7" W, in an elevational interval of 1750 to 1900 m. The vegetation includes wet montane cloud forests and low forests on white sand. The available information on the floristic diversity of the area, in particular the Orchidaceae, is very limited, with only 12 species of the family recorded so far (Shanee *et al.* 2012). However, as the area is being explored, a high diversity of plants is being recorded, especially of the genus *Epidendrum* (Arista *et al.* 2023, Damián *et al.* 2022), indicating that this genus is much more diverse than previously estimated.

Botanical material.— The material on which the new species is based was collected during a field trip to the ACPPB in July 2022. Digital photographs were taken in the field with a digital camera (Nikon D850, Nikon Corporation, Tokyo, Japan) equipped with a Nikkor 60 m, 2.8 lens, and a Nikon Speedlight SB-70. A Lankester Composite Dissection Plate (LCDP; Karremans 2020) was prepared with Adobe Photoshop v. 24.1.0. A specimen was pressed and deposited in the herbarium of the Universidad Nacional Toribio Rodríguez de Mendoza, Chachapoyas, Peru (KUELAP) to serve as the holotype. For taxonomic identification, the specimen was first assigned to the corresponding informal group within the genus *Epidendrum*, corresponding to the Takuluma group (Hágsater & Santiago 2008) because of its *Vanda*-like monopodial stems with basal or lateral, successive inflorescences. Then we compared it with the types, records of types, protologues, and additional publications and illustrations of all the species assignable to the Takuluma group, as well as the records available in the extensive database of Herbario AMO (AMODATA; Hágsater & Sánchez Saldaña 2016). The herbaria consulted include AAU, AMES, AMO, ANDES, B (photographs taken before its destruction), BM, BR, BRIT, C, CAS, CHAX, CM, COAH, COL, CPUN, CTES, CUVC, CUZ, E, ENCB, F, FI, FMB, G, GH, GOET, HAO, HB, HBG, HCEN, HNOP, HOXA, HURP, HUSA, HUT, INPA, ITA, JAUM, K, KUELAP, L, LE, LL, LOJA, M, MA, MEXU, MICH, MO, MOL, NY, OXF, P, PR, PRC, PRG, Q, QAP, QCA, QCNE, QPLS, R, RENZ, S, SEL, TEX, TNS, U, UC, UFV, US, USE, USM, VEN, W, WIS and WRSL. The description is based on the type, complemented with additional material found in Ecuador and Peru and cited below.

TAXONOMIC TREATMENT

Epidendrum edquenii Hágsater, E.Santiago & J.P.Arista, *sp. nov.* (Fig. 1, 2B).

TYPE: PERU. Amazonas: Province of Bongará, District of Yambrasbamba, a 20 m de la carretera a Perla del Imaza, en un lote de pasto de ganado (Santa Rosa), 2079 m, 15 Aug. 2022, *J. P. Arista et al.* 276 (holotype: KUELAP!).

DIAGNOSIS: Similar to *Epidendrum rhodovandoides* Hágsater but sepals 9.7–10.7 mm long (*vs.* 4–5.5 mm long), petals narrowly ovate with the margin densely

and short ciliate (*vs.* petals narrowly lanceolate with the margin scarcely long-ciliate), lip widely triangular with the margin scarcely papillose (*vs.* lip sub-cordiform with the margin ciliate).

Epiphytic, monopodial, *Vanda*-like, erect herb 3–6 cm tall. *Roots* 1–2 mm in diameter, basal, fleshy. *Stem* 1.5–3.0 × 0.5–0.8 cm, simple, erect, laterally compressed, entirely covered by foliar sheaths, occasionally producing new stems from the base of the lower internode of the primary stem in older plants. *Leaves* 5–11, distributed throughout stem, distichous in a single plane, spreading, canaliculate, arching, articulate, coriaceous, rugose, medium green, margin reddish; sheaths 7.5–12.0 mm long, minutely striated, rugose, green, turning ochre-green with age; blade 1.4–4.8 × 0.7–1.0 cm, linear-oblong, apex rounded, minutely apiculate; margin minutely papillose towards apex. *Spathe* lacking. *Inflorescence* 2.5 cm long, produced from the base of the stem, flowering over several years from short successive segments, entirely covered by leafless imbricating bracts, base tubular, apex acuminate, striated, scarious. *Floral bracts* 10 × 6–8 mm, longer than ovary, tubular in the natural position, widely ovate when spread-out, apex acuminate, similar to those of scape. *Flowers* solitary, a single flower produced from each segment of inflorescence, non-resupinate, red with green dorsal surface, margins, and apices of the sepals and petals, base of the column and disc of lip yellow-green. *Ovary* 6 mm long, terete, thick, not inflated, furrowed. *Sepals* fleshy, glabrous, ovate, short acuminate, apiculate, 5-veined, margin entire; dorsal sepal 9.5 × 5.0 mm, free, spreading; lateral sepals 10.7 × 5.3 mm, obliquely united to about 3/4 of underside of the column, partly spreading, apex aristate. *Petals* 8.0 × 3.0 mm, spreading, free, fleshy, glabrous, narrowly ovate, shortly acuminate, slightly oblique, 3-veined, margin shortly and densely ciliate, spreading. *Lip* 6.0 × 9.5 mm, united to the column, widely triangular, base truncate, apex truncate, apiculate, margin minutely and scarcely papillose, spreading; disc concave; ecallose, with a prominent, fleshy mid-rib low at the base becoming higher and more prominent towards apical 2/3 of the lip, ending at apex of the lip. *Column* 4 mm

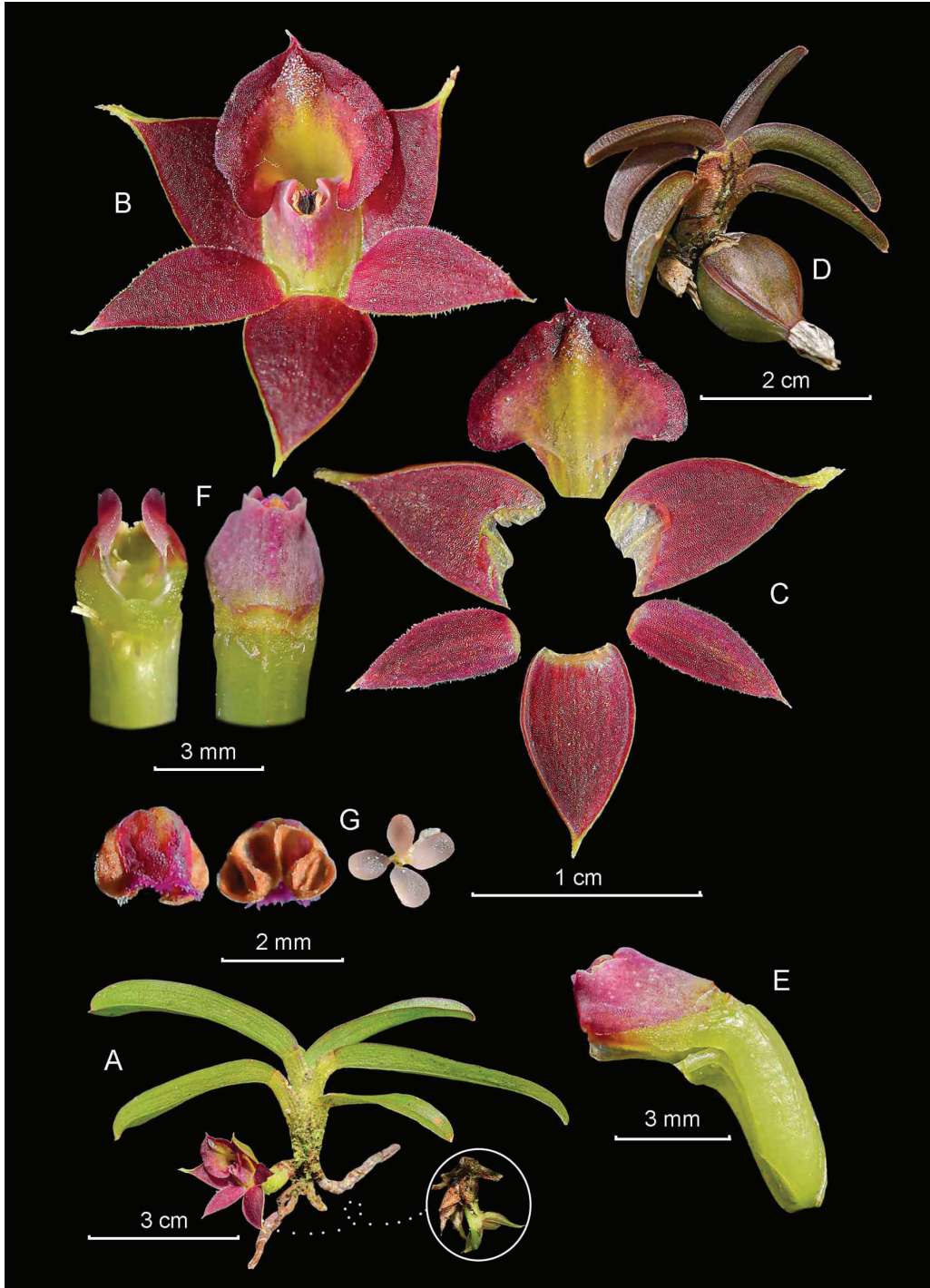


FIGURE 1. *Epidendrum edquenii*. A. Flowering plant (the inset shows the inflorescence from below). B. Flower from the front. C. Perianth segments. D. Plant with developing capsule. E. Ovary and column from the side. F. Column from below (left) and above (right). G. Column from above (left) and from below (right). H. Pollinarium. Based on *Arista et al.* 276. Photographs by J. D. Edquén Oblitas; LCDP prepared by X. Alcántara.

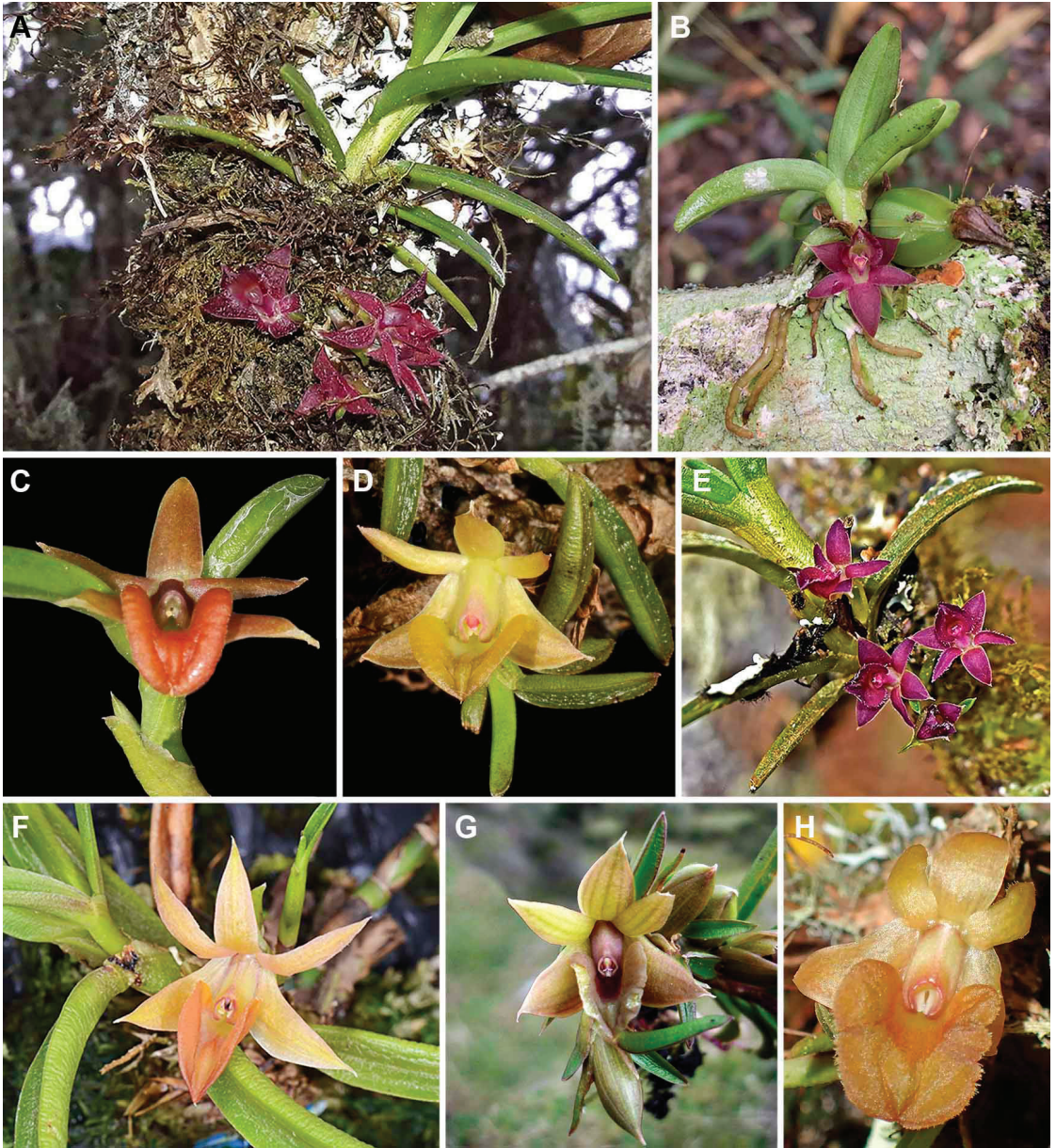


FIGURE 2. Selected species of the Takulumena group of *Epidendrum*. **A.** *E. boyacaense*. **B.** *E. edquenii*. **C.** *E. florezianum*. **D.** *E. kapuleri*. **E.** *E. rhodovandoides*. **F.** *E. sophronitoides*. **G.** *E. uribeianum*. **H.** *E. vulcanitungurahuae*. Photographs by F. O. Espinosa (A), Círculo de Investigación en Taxonomía, Florística y Ecología Vegetal, Universidad Nacional Agraria La Molina (B), G. Reina-Rodríguez (C), E. Hágsater (D), A. Hirtz (E), R. Jiménez-Machorro (F), J. S. García Revelo (G), and R. Gelis (H). All reproduced with permission.

long, thick, straight. *Clinandrium-hood* reduced, margin entire. *Rostellum* sub-apical, slit; viscarium semi-liquid. *Lateral lobes of the stigma* small, occupying less than half of the stigmatic cavity.

Anther reniform, truncate, papillose at apex, 4-celled. *Pollinia* 4, obovoid, light pink, caudicles soft, and granulose. *Capsule* 21 × 12 mm; sessile; body 14 × 12 mm, globose; apical neck 7 mm long.

EPONYMY. The specific epithet honors José Dilmer Edquén Oblitas (1991–), who graduated as an Environmental Engineer at the Universidad Nacional de San Martín, Peru, and who has devoted seven years to researching orchid diversity of the Bosque de Protección Alto Mayo in the northern edge of the department of San Martín. He made significant contributions to the orchid inventory of the ACCPB.

DISTRIBUTION AND HABITAT. Currently known from northern Peru and southern Ecuador. In Peru, from the departments of Amazonas (outskirts of the ACCPB) and Cajamarca (Jaén and Chota). Epiphytic in wet montane forest at 1750–3000 m elevation. The type was part of a colony on an isolated tree of *Cedrelinga* sp. (Fabaceae) in a pasture, among remnants of wet montane forest on the road to Perla del Imaza, at 2079 m elevation.

CONSERVATION STATUS. Data Deficient (DD). Presently known from five localities in Peru and Ecuador, at 1750–3000 m elevation. The distance between the farthest of them is 285 km.

ADDITIONAL SPECIMENS EXAMINED. Ecuador. Zamora-Chinchipec: Area of Estación Científica San Francisco, road Loja-Zamora, ca. 35 km from Loja, 2150 m, 11 Oct. 2008, *Werner 2658* (AMO!); Palanda: Beyond the pass, Yangana to Valladolid, 2500–3000 m, April 1985, *Dalesandro 397* (MO!).

OTHER RECORDS. Peru. Amazonas, Rodríguez de Mendoza, 1750 m, *Arbildo s.n.* (digital image AMO!); Cajamarca, Jaén, al norte [de] San José de la Alianza, 2160 m, 9 Feb. 2022, *Círculo de Investigación en Taxonomía, Florística y Ecología Vegetal, Universidad Nacional Agraria La Molina s.n.* (digital image at <http://www.inaturalist.org/observations/106480085>, accessed 24 January 2023); Chota, Yaquil, 2793 m, 10 Sept. 2020, *Tafur 151* (digital images AMO!).

PHENOLOGY. Flowering and fruiting from August to February.

Discussion. *Epidendrum edquenii* is similar to *E. rhodovandoides* Hágsater (2008), which differs in its tiny plants to 2 cm tall (vs. 3–6 cm tall), glabrous, cardinal-red to reddish magenta flowers, sepals 4.0–5.5 mm long, and sub-cordiform, acuminate lip 3 × 4 mm. *Epidendrum dasyanthum* Hágsater is also similar, but differs from both the above species in its salmon-pink to reddish, concolorous flowers, strongly papillose floral segments, acute sepals 9–13 mm long, and cordiform to sub-triangular lip. *Epidendrum hernandoi* (Szlach. & Kolan) J.M.H. Shaw, only registered from the Cordillera Oriental of Colombia until now, has red-purple flowers with tepals and lip pubescent, the lip triangular-ovate with the apex acuminate.

KEY TO THE SPECIES OF THE TAKULUMENA GROUP OF *EPIDENDRUM*

1. Sepals and petals with surface glabrous (sometimes only margins ciliate or rarely with a few short trichomes on the ventral surface) 2
2. Flowers red-purple 3
 3. Sepals 4.0–5.5 × 1.8–3.0 mm; lip sub-cordiform with the margin ciliate *E. rhodovandoides*
 - 3a. Sepals 8.5–10.7 × 4.0–5.3 mm; lip widely triangular, 6 × 9.5 mm; flowers with abaxial surface of sepals and petals green *E. edquenii*
- 2a. Flowers ochre-yellow, orange-brown, or salmon-pink 4
4. Petals strongly reflexed; margins of floral segments entire *E. vulcanitungurahuae*
- 4a. Petals spreading or slightly reflexed; margins of petals and/or lip ciliate or papillose 5
5. Lip with base deeply cordate, flowers yellow-brown with lips bright orange *E. floreziarum*
- 5a. Lip with base truncate or slightly cordate; flowers yellow to ochre, slightly tinged pink 6
6. Lateral sepals 9–10 mm long, lip widely triangular *E. kapuleri*
- 6a. Lateral sepals 12–16 mm long, lip ovate-cordiform, base slightly cordate 7
7. Lateral sepals and petals falcate, apex acuminate, margin of lip ciliate *E. sophronitoides*
- 7a. Lateral sepals and petals oblique, but not falcate, apex obtuse, margin of lip entire *E. uribeianum*

- 1a. Sepals and/or petals with ventral surface pubescent 8
 8. Sepals glabrous, petals pubescent, lip proportionately wider than long *E. psilosepalum*
 8a. Sepals and petals pubescent, lip proportionately longer than wide 9
 9. Lip surface glabrous, only margin ciliate 10
 10. Flowers salmon-pink, lip triangular-ovate in outline when spread, distinctly squeezed near the middle in natural position *E. kuelapense*
 10a. Flowers purple-reddish, lip orbicular-cordiform *E. glabrilabium*
 9a. Lip surface pubescent 11
 11. Leaves up to 3 cm long, apex of tepals long acuminate *E. wieslawii*
 11a. Leaves up to 9 cm long, apex of tepals acute or acuminate 12
 12. Lip elliptic *E. dasyanthum*
 12a. Lip ovate-cordiform 13
 13. Leaves 9.0 × 0.7 cm, apical margin denticulate; sepals 9.5–10.5 mm long *E. boyacaense*
 13a. Leaves 6.5 × 0.4 cm, apical margin entire; sepals 8.5 mm long *E. hernandoi*

LIST OF THE SPECIES BELONGING TO THE TAKULUMENA GROUP OF *EPIDENDRUM*

- Epidendrum boyacaense*** (Szlach. & Kolan.) J.M.H.Shaw, *Orchid Rev. Suppl.*, 124(1314): 36 (2016). (Fig. 2A). Basionym: *Takulumena boyacensis* Szlach. & Kolan. *Wulfenia* 21: 68 (2014). Type. Colombia, Boyacá, Aquitania-Toquilla, Río Cusiana, páramo, en bosque primario entresacado, 2800 m, 8 March 1980, *H. Bernal M. & G. Charvarro 304*. (holotype: COL!).
- Epidendrum dasyanthum*** Hágsater, *Icon. Orchid.* 11: t. 1116 (2008). *Takulumena vazquezii* Szlach., Mytnik, Romowicz & Marg. *Orchidee (Hamburg)* 57(3): 327. (2006), non *Epidendrum vazquezii* Hágsater & L.Sánchez (2006). Type. Ecuador, circum Loja, in silva montana humile, epiphytus in ramis muscosis, November 2005, *D. Szlachetko et al. s.n.* (holotype: UGDA).
- Epidendrum edquenii*** Hágsater, E.Santiago & J.P.Arista (see earlier). Type: PERU: Amazonas: Prov. Bongará, Distr. Yambrasbamba, a 20 m de la carretera a Perla del Imaza, en un lote de pasto de ganado (Santa Rosa), 2079 m, 15 August 2022, *J. P. Arista et al. 276*. (holotype: KUELAP!). (Fig. 1, 2B).
- Epidendrum floreziarum*** Hágsater, E.Santiago & Reina-Rodr., *Icon. Orchid.* 19(2): t. 1953. (2022). Type: COLOMBIA: Nariño: Vereda Olaya, 5 km noroeste de Túquerres, 3178 m, 22 May 2022, *G. Reina-Rodríguez, M. Tobar F. & M. Flórez 3701*. (holotype: CUVC, flower in spirit!). (Fig. 2C).
- Epidendrum glabrilabium*** (Szlach. & Kolan.) J.M.H.Shaw, *Orchid Rev. Suppl.*, 124(1314): 36 (2016). Basionym: *Takulumena glabrilabia* Szlach. & Kolan., *Wulfenia* 21: 75 (2014). Type. Colombia, Cundinamarca, Chocontá. El Sigsa, parte alta de La Represa, 2700–2900 m, 14 Jan. 1962, *H. García-Barriga 17385*. (holotype: COL!; isotypes: AMES! NY!).
- Note:** *Epidendrum glabrilabium* differs from *E. edquenii* in its purple flowers with clearly pubescent dorsal sepal and petals and orbicular-cordiform, apiculate lip with ciliate margins. The last feature, not indicated in the original description of *Takulumena glabrilabia* nor shown in the line drawing accompanying it (Szlachetko & Kolanowska 2014: Fig. 9), is nevertheless evident in the floral analysis made from, and attached to, the isotype at AMES (see <https://plants.jstor.org/stable/viewer/10.5555/al.ap.specimen.ames01985967?page=2>). Whether the original collection may have included a mixture of more than one species or the differences between the protologue and the isotype at AMES derive from inaccuracies in the original illustration and description is beyond the focus of the present work. Still, caution is advised in comparing the species based solely on published drawings and descriptions.
- Epidendrum hernandoi*** (Szlach. & Kolan.) J.M.H.Shaw *Orchid Rev. Suppl.*, 124(1314): 36 (2016). Basionym: *Takulumena hernandoii* Szlach.

& Kolan. Type. Colombia, Cundinamarca, El Siga, carretera a Chocontá. A 2 km al N del Puente, 2800 m, 12 Oct. 1972, *H. García-Barriga 20354* (holotype: COL!).

Epidendrum kapuleri (Szlach. & Kolan.) J.M.H.Shaw, *Orchid Rev. Suppl.*, 124(1314): 36 (2016). (Fig. 2D). Basionym: *Takulumena kapuleri* Szlach. & Kolan., *Wulfenia* 21: 78 (2014). Type: Colombia, Cauca, To Paletará in direction of hacienda Valencia, August 1964, *A. Kapuler & V. Hascall 208* (holotype: COL!).

Epidendrum kuelapense (Szlach. & Mytnik) J.M.H.Shaw, *Orchid Rev. Suppl.*, 122(1306): 38 (2014). (Fig. 2E). Basionym: *Takulumena kuelapense* Szlach. & Mytnik, *Willdenowia* 41(2): 296–297; fig. 1, (2011). Type: Peru, Prov. Amazonas, a few km from Kuelap castle; epiphyte in secondary high forest, alt. 3000 m, Aug. 2007, *D. L. Szlachetko et al. s.n.* (holotype: UGDA-DLSz, spirit).

Epidendrum psilosepalum Hágsater & E. Santiago, *Icon. Orchid.* 11: t. 1167 (2008). Type: Colombia: Cauca: Caldera China, Tierradentro, 2000 m, 27 Feb. 1883, *F. C. Lehmann 2721* (holotype: G!).

Epidendrum rhodovandoides Hágsater, *Icon. Orchid.* 11: t. 1172 (2008). Type: Colombia: Antioquia: 1 km antes del puerto del Boquerón del Cerro del Padre Amaya, 2380 m, 21 April 1983, *E. Hágsater; R. Escobar; C.A. & J. Luer; A. Pridgeon & M. Webb 7246* (holotype: AMO!). (Fig. 2E).

Epidendrum sophronitoides F.Lehm. & Kraenzl., *Bot. Jahrb. Syst.* 26(5): 464 (1899). (Fig. 2F). Basionym: *Takulumena sophronitoides* (F.Lehm. & Kraenzl.) Szlach., *Orchidee (Hamburg)* 57(3): 326 (2006). Colombia, Cauca, Forest above Inzá, 3000–3200 m, *F. C. Lehmann 6245*. (lectotype [designated by Hágsater & E.Santiago, 2008]: K! (mixed sheet); isolectotypes: K! (mounted singly) LE!).

Epidendrum uribeianum J.M.H.Shaw, *Orchid Rev. Suppl.*, 124(1314): 36 (2016). (Fig. 2G). Replaced synonym: *Takulumena uribei* Szlach. & Kolan., *Wulfenia* 21: 73 (2014). Type: Colombia, Cauca, Bosque de la Ceja, entre Coconuco y Paletará, 3200 m, 25 august. 1961, *L. Uribe Uribe 3837* (holotype: COL!).

Epidendrum vulcanitungurahuae Hágsater & E.Santiago, *nom. nov.* (Fig. 2H). Replaced synonym: *Epidendrum tungurahuae* (Szlach. & Mytnik

J.M.H.Shaw, *Orchid Rev. Suppl.*, 122(1306): 38 (2014). Non *Epidendrum tungurahuae* Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 8: 87 (1921). Basionym: *Takulumena tungurahuae* Szlach. & Mytnik, *Willdenowia* 41(2): 297–298; figs. 3–4 (2011). Type: Ecuador, Prov. Tungurahua, Vulcan Tungurahua; secondary forest along creek, Aug. 2007, *Mendoza Cabrera s.n.* (holotype: UGDA-DLSz-spirit).

Epidendrum wieslawii (Szlach. & Mytnik) J.M.H.Shaw, *Orchid Rev. Suppl.*, 122(1306): 39 (2014). Basionym: *Takulumena wieslawii* Szlach. & Mytnik, *Willdenowia* 41(2): 298, fig. 5 (2011). Type: Ecuador, Prov. Loja, bei San Lucas, Loja, 2700 m, 22 Aug. 1878, *Lehmann s.n.* (holotype: W!).

Conclusions. The variability in vegetative and floral traits within *Epidendrum* has caused difficulties in circumscribing the genus. Multiple attempts have been made to separate groups of *Epidendrum* species into distinct genera based on particular features. For the *Takulumena* group, the proposal to establish a separate genus *Takulumena*, was prompted by the prevalence of monopodial growth mode and the basal inflorescences among most species, even though these features are not exclusive to this group. Unfortunately, the descriptions of various species included in this group are vague and confusing, accompanied by floral sketches that do not show accurate diagnostic details of the surface of sepals, petals, and lip. The presence or lack of ornamentation in the floral segments is an essential feature for the recognition of the different species of the group. For the correct determination of the species of the *Takulumena* group, it is recommended to rehydrate flowers when studying herbarium material, especially when quality color photographs are unavailable. Additionally, it is important to be cautious when comparing the species based solely on published drawings and descriptions.

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 6. Manuscripts accepted for publication but not yet published: Nobody, A. B. (In press). Name of the journal or publisher. The name of the journal where the paper was accepted must be indicated, the volume number should be included if known.
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