

ORCHID GENERA LECTOTYPES

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ABSTRACT. The typification of Orchidaceae genera has been disorganized since currently there is not an up to date central database to track these nomenclatural publications. A listing of published generic typifications for Orchidaceae is provided.

KEY WORDS: Nomenclature, Typification, Orchidaceae

Introduction. When an orchid genus is described it is based on a specific species known as the type species. When that species is described the name is based on a specific specimen, the holotype. The International Code of Botanic Nomenclature (ICBN) states: The application of names of taxa of the rank of family or below is determined by means of nomenclatural types (types of names of taxa). The application of names of taxa in the higher ranks is also determined by means of types when the names are ultimately based on generic names (Article 7.1) and a nomenclatural type (typus) is that element to which the name of a taxon is permanently attached, whether as the correct name or as a synonym. The nomenclatural type is not necessarily the most typical or representative element of a taxon (Article 7.2).

There are many kinds of types defined in the ICBN. Loosely used the term type can have many meanings and should be clarified.

- **nomenclatural type.** The element to which the name of a taxon is permanently attached (Art. 7.2).
- **holotype.** The one specimen or illustration used by the author or designated by the author as the nomenclatural type (Art. 9.1).
- **isotype.** A duplicate specimen of the holotype (Art. 9.3).
- **syntype.** Any specimen cited in the protologue when there is no holotype, or any of two or more specimens simultaneously designated as types (Art. 9.4).
- **isosyntype.** A duplicate of a syntype (Art. 9.10).

- **paratype.** A specimen cited in the protologue that is neither the holotype nor an isotype, nor one of the syntypes if two or more specimens were simultaneously designated as types (Art. 9.5).
- **neotype.** A specimen or illustration selected to serve as nomenclatural type if no original material is extant or as long as it is missing (Art. 9.6).
- **lectotype.** A specimen or illustration designated from the original material as the nomenclatural type if no holotype was indicated at the time of publication, or if it is missing, or if it is found to belong to more than one taxon (Art. 9.2).
- **epitype.** A specimen or illustration selected to serve as an interpretative type when the holotype, lectotype, or previously designated neotype, or all original material associated with a validly published name cannot be identified for the purpose of precise application of the name of a taxon (Art.9.7).

Why is this important? Many genera were described before a type designation was required and a type species was not designated. Publication on or after 1 January 1958 of the name of a new taxon of the rank of genus or below is valid only when the type of the name is indicated (Art. 37.1). However the ICBN does provide that if the name of a new genus reference to one species name only, or the citation of the holotype or lectotype of one previously or simultaneously published species name only, even if that element is not explicitly designated as type, is acceptable as indication of the type (Art. 37.3). This leaves many genera without type species.

Recognizing that all taxa do not have a type the ICBN provides that one can be selected:

- If no holotype was indicated by the author of a name of a species or infraspecific taxon, or when the holotype has been lost or destroyed, or when the material designated as type is found to belong to more than one taxon, a lectotype or, if permissible a neotype as a substitute for it may be designated (Art. 9.9).

There are additional rules for typification of taxa that require the proper use of terminology. Article 9.8. states that The use of a term defined in the ICBN as denoting a type, in a sense other than that in which it is so defined, is treated as an error to be corrected (for example, the use of the term lectotype to denote what is in fact a neotype).

The type of typification is dependent on availability of original material:

- A **lectotype** is a specimen or illustration designated from the **original material** as the nomenclatural type, if no holotype was indicated at the time of publication, or if it is missing, or if it is found to belong to more than one taxon (Art. 9.2).
- A **neotype** is a specimen or illustration selected to serve as nomenclatural type if **no original material is extant**, or as long as it is missing (see also Art. 9.6).

Further guidance is given by the ICBN for the selection of a new type

- In lectotype designation, an isotype must be chosen if such exists, or otherwise a syntype if such exists. If no isotype, syntype or isosyntype (duplicate of syntype) is extant, the lectotype must be chosen from among the paratypes if such exist. If no cited specimens exist, the lectotype must be chosen from among the uncited specimens and cited and uncited illustrations which comprise the remaining original material, if such exist (Art. 9.10).
- If no original material is extant or as long as it is missing, a neotype may be selected. A lectotype always takes precedence over a neotype (Art. 9.11), except when the holotype or a previously designated lectotype has been lost or destroyed

and it can be shown that all the other original material differs taxonomically from the destroyed type, a neotype may be selected to preserve the usage established by the previous typification (Art. 9.14).

Some authors in the past have listed a type species for a genus even when the original author did not designate a type. This had the inadvertent effect of lectotypification or neotypification of the genus. The ICBN now requires that the designation of a new type use of the term “lectotypus” or “neotypus” and location of the type.

- On or after 1 January 1990, lectotypification or neotypification of a name of a species or infraspecific taxon by a specimen or unpublished illustration is not effected unless the herbarium or institution in which the type is conserved is specified (Art.9.20).
- On or after 1 January 2001, lectotypification or neotypification of a name of a species or infraspecific taxon is not effected unless indicated by use of the term “lectotypus” or “neotypus”, its abbreviation, or its equivalent in a modern language (Art.9.21).

Currently typification is not adequately tracked in the online taxonomic databases, such as, Index Nominum Genericorum (ING), International Plant Names Index (IPNI), Tropicos, World Checklist of Selected Plant Families. The authors encourage the database owners to add this valuable information since earlier type choices have priority. An excellent example of a database is the Linnaean Plant Name Typification Project, based at The Natural History Museum (London), that has been collating and cataloguing information on published type designations for Linnaean plant names and, where none exists, has been collaborating with specialists in designating appropriate types. For each species, the database provides the place of publication, stated provenance, the type specimen (or illustration) and a reference to where the type choice was published, and an indication of the current name of the taxon within which Linnaeus’ original binomial is now placed.

The Typification of Orchidaceae Genera

Aa Rchb.f., *Xenia Orchid.*, 1: 18 (1854).

TYPE SPECIES: *A. paleacea* (Kunth) Schltr. (*Ophrys paleacea* Kunth) selected by Schlechter, *Repert. Spec. Nov. Regni Veg.*, 11: 147 (1912); Baillon, *Dict. Bot.*, 4: 309 (1892); and Pfeiffer, *Nomencl. Bot.* (Pfeiffer), 1(1): 1 (1871).

Acampe Lindl., *Fol. Orchid.*, 4: *Acampe*, 1 (1853).

TYPE SPECIES: *A. multiflora* (Lindl.) Lindl. (*Vanda multiflora* Lindl.) selected by Pfeiffer, *Nomencl. Bot.* (Pfeiffer), 1(1): 9 (1871).

LECTOTYPE: *A. rigida* (Buch.-Ham. ex Sm.) P.F.Hunt (*Aerides rigida* Buch.-Ham. ex Sm.) designated by Seidenfaden, *Bot. Mus. Leaflet.*, 25(2): 54 (1977); and indirectly by Averyanov, *Bot. Zhurn. (Moscow & Leningrad)*, 76(6): 890 (1991).

Aceras R.Br., *Hortus Kew.*, ed. 2, 5: 191 (1813).

LECTOTYPE: *A. anthropophorum* (L.) R.Br. (*Ophrys anthropophora* L.) designated by H. Baumann et al., *Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ.*, 21(3): 437 (1989).

Achroanthes Raf., *Med. Repos.*, ser. 2, 5: 352 (1808)

TYPE SPECIES: *A. unifolia* (Michx.) Raf. (*Malaxis unifolia* Michx.) selected by Pfeiffer, *Nomencl. Bot.* (Pfeiffer), 1(1): 22 (1871).

Achroanthes Raf. *Amer. Monthly Mag. & Crit. Rev.*, 2: 268 (1818) and 4: 195 (1819).

TYPE SPECIES: *Malaxis ophioglossoides* Muhl. ex Willd. (*Arethusa ophioglossoides* Muhl.) selected by Garay & H.R. Sweet, *J. Arnold Arbor.*, 53(1): 515 (1972).

Acianthera Scheidw., *Allg. Gartenzeitung*, 10(37): 292 (1842).

NEOTYPE SPECIES: *A. punctata* Scheidw. designated by Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.*, 20: 12 (1986).

Acineta Lindl., *Edwards's Bot. Reg.*, 29(Misc.): 67 (1843).

TYPE SPECIES: *A. superba* (Kunth) Rchb.f. (*Anguloa superba* Kunth) selected by G. Gerlach, *Gen. Orch.*, 5: 399 (2009).

Acianthus R.Br., *Prodr. Fl. Nov. Holland.*, 321 (1810).

TYPE SPECIES: *A. exsertus* R.Br. selected by N. Hallé, *Fl.*

Nouvelle Caledonie & Depend., 8: 418 (1977).

TYPE SPECIES: *A. fornicatus* R.Br. selected by M.A. Clements, *Austral. Orchid Res.*, 1: 9 (1989) and Jones, D.L. & Clements, M.A., *Lindleyana*, 2: 157 (1987).

Acostaea Schltr., *Repert. Spec. Nov. Regni Veg. Beih.*, 19: 22, 283 (1923).

LECTOTYPE: *A. costaricensis* Schltr. designated by Summerhayes, *Index Nom. Gen. (Pl.)*, 1: 16 (1967) card #64/24402 (1967); and Pupulin, *Bot. J. Linn. Soc.*, 163: 116 (2010).

Aerides Lour., *Fl. Cochinch.*, 2: 516 & 525 (1790).

LECTOTYPE: *A. maculosa* (Wight) Lindl. (*Saccolabium speciosum* Wight) designated by Christenson, *Kew Bulletin*, 41(4): 837 (1986).

Aeridium Salisb., *Trans. Hort. Soc. London*, 1: 295 (1812).

TYPE SPECIES: *A. odorum* Salisb. selected by Pfeiffer, *Nomencl. Bot.* (Pfeiffer), 1(1): 67 (1871).

Aerobion Kaempf. ex Spreng. *Syst. Veg.* 3: 679 (1826).

LECTOTYPE: *A. superbum* (Thouars) Spreng. (*Angraecum superbum* Thouars) designated by Garay, *Kew Bull.*, 28(3): 496 (1973).

Altensteinia Kunth, *Nov. Gen. Sp. Pl.*, 1: 332 (1816).

TYPE SPECIES: *A. fimbriata* Kunth selected by Reichenbach f., *Xenia Orchid.*, 1: 18 (1854).

Amalia Rchb.f., *Herb. Nomen.*, 52 (1841).

LECTOTYPE: *Bletia grandiflora* La Llave designated by Garay & H.R. Sweet, *J. Arnold Arb.*, 53: 515 (1972).

Amparao Schltr., *Repert. Spec. Nov. Regni Veg. Beih.*, 19: 64 (1923).

LECTOTYPE: *A. costaricensis* Schltr. designated by Pupulin, *Bot. J. Linn. Soc.*, 163: 119 (2010).

Amphigena Rolfe, *Fl. Cap. (Harvey)*, 5(3): 197 (1913).

TYPE SPECIES: *A. leptostachya* (Sond.) Rolfe (*Disa leptostachys* Sond.) selected by E.P. Phillips, *Gen. S. Afr. Fl. Pl.*, ed. 2, 236 (1951).

Amphorkis Thouars, *Nouv. Bull. Sci. Soc. Philom. Paris*, 1(19): 316 (1809).

LECTOTYPE: *A. inermis* Thouars designated by A. Richard, *Mem. Soc. Hist. Nat., Paris*, 4: 30 (1828).

- Anacamptis** Rich., De Orchid. Eur., 19, 25 (1817), and Mém. Mus. Hist. Nat., 4: 47, 55 (1818).
LECTOTYPE: *A. pyramidalis* (L.) Rich. (*Orchis pyramidalis* L.) designated by H. Baumann et al., Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ., 21(3): 439 (1989).
- Anathallis** Barb.Rodr., Gen. Sp. Orchid, 1: 23, t. 470 (1877).
LECTOTYPE: *A. fasciculata* Barb.Rodr. designated by Garay, Orquideología, 9: 122 (1974).
- Ancistrohynchus** Finet, Bull. Soc. Bot. France, 54(9): 44 (1907).
TYPE SPECIES: *A. recurvus* Finet selected by Summerhayes, Bot. Mus. Leaf., 11: 204, 213 (1944).
- Anguloa** Ruiz & Pavón, Fl. Peruv. Prodr., 118, t. 26 (1794).
TYPE SPECIES: *A. uniflora* Ruiz & Pavón selected by Ruiz & Pavón, Syst. Veg. Fl. Peruv. Chil., 1: 228 (1798) and Oakeley, Orchid Digest, 63(4 Suppl.): 3 (1999).
- Ania** Lindl., Gen. Sp. Orchid. Pl., 129 (1831).
TYPE SPECIES: *A. angustifolia* Lindl. selected by Senghas, Orchideen (Schlechter), ed. 3, 1: 863 (1984).
LECTOTYPE: *A. angustifolia* Lindl. designated by H. Turner, Orch. Monog., 6: 49 (1992) and P.J. Cribb, Gen. Orch., 4: 159 (2005).
- Anochilus** Schltr. ex Rolfe, Fl. Cap. (Harvey), 5:(3): 280 (1913).
TYPE SPECIES: *A. inversus* (Thunberg) Rolfe (*Ophrys inversa* Thunberg) selected by E.P. Phillips, Gen. S. Afr. Fl. Pl., ed. 2, 238 (1951).
- Appendicula** Blume, Bijdr. Fl. Ned. Ind., 7: 297, t. 40 (1825).
TYPE SPECIES: *A. alba* Blume selected by N. Hallé, Fl. Nouvelle Calédonie & Depend., 8: 345 (1977).
LECTOTYPE: *A. alba* Blume designated by Averyanov, Bot. Zhurn. (Moscow & Leningrad), 76(1): 123 (1991).
- Appendiculopsis** Szlach., Fragm. Florist. Geobot., 3(Suppl.): 119 (1995).
LECTOTYPE: *A. stipulata* (Griffith) Szlach. (*Appendicula stipulata* Griffith) designated by Szlachetko, Fragm. Florist. Geobot., 3(Suppl.): 119 (1995).
- Arachnis** Blume, Bijdr. Fl. Ned. Ind., 8: 365, t. 26 (1825).
LECTOTYPE: *A. flos-aeris* (L.) Rchb.f. (*Epidendrum flos-aeris* L.) designated by J.J. Wood, Taxon, 48: 47 (1999).
- Arethusa** L., Sp. Pl. (Linnaeus), ed. 1, 2: 950 (1753).
TYPE SPECIES: *A. bulbosa* L. selected by Britton & Brown, Ill. Fl. N.U.S., ed 2, 1: 562 (1913).
- Arundina** Blume, Bijdr. Fl. Ned. Ind., 8: 401, t. 73 (1825).
LECTOTYPE: *A. speciosa* Blume designated by Garay & H.R. Sweet, Orchids S. Ryukyu Islands, 52 (1974).
- Ascocentrum** Schltr., Repert. Spec. Nov. Regni Veg. Beih., 1: 975 (1913).
LECTOTYPE: *A. minutum* (Lindl.) Schltr. (*Saccolabium minutum* Lindl.) designated by Summerhayes, Index Nom. Gen. (Pl.), 1: 139 (1967) card #64/24468.
LECTOTYPE: *A. ampullaceum* (Roxburgh) Schltr. (*Aerides ampullacea* Roxburgh) designated by Christenson, Kew Bulletin, 41(4): 836 (1986).
- Ascochilus** Ridl., J. Linn. Soc., Bot., 32: 374 (1896).
LECTOTYPE: *A. siamensis* Ridl. designated by Garay, Bot. Mus. Leaf., 23(4): 161 (1972).
- Auliza** Salisb., Trans. Hort. Soc. London, 1: 294 (1812).
TYPE SPECIES: *A. ciliaris* (L.) Salisb. (*Epidendrum ciliaris* L.) selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 1(1): 321 (1871).
TYPE SPECIES: *A. nocturna* (Jacq.) Small selected by Small, Fl. Miami, 56 (1913) and Garay & H.R. Sweet, J. Arnold Arbor., 53(4): 516 (1972).
LECTOTYPE: *A. nocturna* (Jacq.) Small (*Epidendrum nocturnum* Jacq.) **invalidly** designated by Hågsater & Soto Arenas, Gen. Orch., 4: 237 (2005).
- Barbosella** Schltr., Repert. Spec. Nov. Regni. Veg., 15: 259 (1918).
LECTOTYPE: *B. miersii* (Lindl.) Schltr. (*Pleurothallis miersii* Lindl.) designated by Angely, Fl. Analítica São Paulo, 6: 1282 (1973).
TYPE SPECIES: *B. gardneri* (Lindl.) Schltr. (*Pleurothallis gardneri* Lindl.) selected by Luer, Selbyana, 5: 386 (1981).
- Bartholina**, R.Br., Hortus Kew., ed. 2, 5: 194 (1813)
TYPE SPECIES: *B. pectinata* (Thunberg) R.Br. nom. illeg. (*Orchis pectinata* Thunberg nom. illeg.). This type

name is now considered a synonym of *Bartholina burmanniana* (L.) Ker-Gawler (*Orchis burmanniana* L.) which was lectotyped by H.P. Linder, *Taxon*, 48: 48 (1999).

Beloglottis Schltr., *Beih. Bot. Centralbl.*, 37(2): 364 (1920).

TYPE *B. costaricensis* (Rchb.f.) Schltr. selected by Garay, *Fl. Ecuador*, 9: 253 (1978).

LECTOTYPE: *B. boliviensis* Schltr. designated superfluously by Burns-Balogh, *Amer. J. Bot.*, 69(7): 1131 (1982).

LECTOTYPE: *B. costaricensis* (Rchb.f.) Schltr. (*Spiranthes costaricensis* Rchb.f.) designated by Rutkowski et al., *Phylogeny & Taxonomy Subtribes Spiranthinæ*, 132 (2008).

Benthamia A.Rich., *Mem. Soc. Hist. Nat. Paris*, 4: 37 (1828).

LECTOTYPE: *B. latifolia* A.Rich. designated by P.J. Cribb, *Gen. Orch.*, 2: 261 (2001).

Bifrenaria Lindl., *Gen. Sp. Orchid. Pl.*, 152 (1832).

TYPE SPECIES: *B. atropurpurea* (Loddiges) Lindl. (*Maxillaria atropurpurea* Loddiges) selected by S. Koehler, *Brittonia*, 56(4): 318 (2004).

Bipinnula Comm. ex Juss., *Gen. Pl.*, 65 (1789).

LECTOTYPE: *B. biplumata* (L.f.) Rchb.f. (*Arethusa biplumata* L.f.) designated by M.N. Correa, *Gen. Orch.*, 3: 5 (2003).

Blephariglotis Raf., *Fl. Tellur.*, 2: 38 (1837).

TYPE SPECIES: *B. albiflora* (Michx.) Raf. (*Orchis ciliaris* var. *alba* Michx.) selected by Britton & Brown, *Ill. Fl. N.U.S.*, ed. 2, 1: 556 (1913).

Bletia Ruiz & Pav., *Fl. Peruv. Prodr.*, 119, t. 26 (1794).

TYPE SPECIES: *B. catenulata* Ruiz & Pav. selected by Britton & Millspaugh, *Bahama Fl.*, 96 (1920).

Bletilla Rchb.f., *Fl. Serres Jard. Eur.*, ser. 1, 8: 246 (1853).

TYPE SPECIES: *B. gebina* (Lindl.) Rchb.f. (*Bletia gebina* Lindl.) *typ. cons.*

TYPE SPECIES: *B. florida* (Salisb.) Rchb.f. (*Limodorum floridum* Salisb.) this name is currently considered a species of the genus *Bletia*, **invalidly** selected by Pfeiffer, *Nomencl. Bot.* (Pfeiffer), 1(1): 423 (1871).

Bolusiella Schltr., *Beih. Bot. Centralbl.*, 36(2): 105 (1918).

LECTOTYPE: *B. maudae* (Bolus) Schltr. (*Angraecum maudae* Bolus) designated by Butzin, *Taxon*, 32(4): 630 (1983).

Bontiana Petiver, *Gaz.*, 1: 70, t. 44 (1704).

LECTOTYPE: *B. luzonica* Petiver designated by P.J. Cribb, *Taxon*, 48: 47 (1999).

Brachionidium Lindl., *Fol. Orchid.*, 8: *Brachionidium* 8 (1859).

TTYPE SPECIES: *B. parvifolium* (Lindl.) Lindl. (*Restrepia parvifolia* Lindl.) selected by Garay, *Canad. J. Bot.*, 34(4): 729 (1956).

Brachystele Schltr., *Beih. Bot. Centralbl.*, 37(2): 370 (1920).

LECTOTYPE: *B. unilateralis* (Poiret) Schltr. (*Ophrys unilateralis* Poiret) designated by M.N. Corrêa, *Fl. Patagónica*, 8(2): 208 (1969) and *Darwiniana*, 11(1): 29 (1955); Cabrera, *DAGI Publ. Técn.*, 1(6): 16 (1942); and Angely, *Fl. Analítica São Paulo*, 6: 1270 (1973)

LECTOTYPE: *B. guayanensis* (Lindl.) Schltr. (*Goodyera guayanensis* Lindl.) designated superfluously by Burns-Balogh, *Amer. J. Bot.*, 69(7): 1131 (1982).

Brasiliorchis R.B. Singer, S. Koehler & Carnevali, *Novon*, 17(1): 94 (2007).

LECTOTYPE: *B. picta* (Hook.) R.B. Singer, S. Koehler & Carnevali (*Maxillaria picta* Hook.) designated by R.B. Singer, *Novon*, 17: 97 (2007).

Brenesia Schltr., *Repert. Spec. Nov. Regni Veg. Beih.*, 19: 200 (1923).

LECTOTYPE: *B. costaricensis* Schltr. designated by K. Barringer, *Fieldiana, Bot.*, 17: 4 (1986).

Brownleea Harvey ex Lindl., *J. Bot. (Hooker)*, 1: 16 (1842).

TYPE SPECIES: *B. parviflora* Harvey ex Lindl. selected by E.P. Phillips, *Gen. S. Afr. Fl. Pl.*, ed. 2, 235 (1951).

Buchtienia Schltr., *Repert. Spec. Nov. Regni Veg. Beih.*, 27: 33 (1929).

LECTOTYPE: *B. boliviensis* Schltr. designated by Rutkowski et al., *Phylogeny & Taxonomy Subtribes Spiranthinæ*, 153 (2008).

Bulbophyllum Thouars, *Hist. Orchid.*, Table 3, sub 3u, tt. 93-110 (1822).

- LECTOTYPE: *B. nutans* Thouars designated by M.L. Green, Prop. Brit. Bot., 100 (1929); and Greuter et al., Regnum Veg., 118: 186 (1983).
- Caladenia** R.Br., Prodr. Fl. Nov. Holland., 323 (1810).
TYPE SPECIES: *C. carnea* R.Br. selected by M.A. Clements, Aust. Orch. Res., 1: 20 (1989); not *Caladenia flava* R.Br. selected by Pfitzer, Nat. Pflanzenfam., 2(6): 104. (1889); not *Caladenia catenata* (Sm.) Druce selected by (N. Hallé 1977).
- Caleana** R.Br., Prodr. Fl. Nov. Holland., 329 (1810).
TYPE SPECIES: *C. major* R.Br., selected by Blaxell, Contr. New South Wales Natl. Herb., 4: 279 (1972).
- Calochilus** R.Br., Prodr. Fl. Nov. Holland., 320 (1810).
TYPE SPECIES: *C. paludosus* R.Br. selected by M.A. Clements, Austral. Orchid Res., 1: 35 (1989).
- Calopogon** R.Br., Hortus Kew, ed. 2, 5: 204 (1813).
TYPE SPECIES: *C. tuberosus* (L.) Britton, Sterns & Poggenb. (*Limodorum tuberosum* L.) selected by Mackenzie, Rhodora, 27: 195 (1925).
LECTOTYPE: *C. pulchellus* (Salisb.) R.Br. nom. illeg. (*Limodorum pulchellum* Salisb. nom. illeg.), designated by M.L. Green, Prop. Brit. Bot., 100 (1929).
- Calypso** Salisb., Parad. Lond., 2: t. 89 (1807).
LECTOTYPE: *C. bulbosa* (L.) Oakes (*Cypripedium bulbosum* L.) designated by H. Baumann et al., Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ., 21(3): 441 (1989).
- Calymmanthera** Schltr., Repert. Spec. Nov. Regni Veg. Beih., 1: 955 (1913).
LECTOTYPE: *C. tenuis* Schltr., designated by Kores, Allertonia, 5: 183 (1989).
- Capanemia** Barb.Rodr., Gen. Sp. Orchid., 1: 137, t. 354 (1877).
TYPE SPECIES: *C. uliginosa* Barb.Rodr. selected by M.W. Chase, Gen. Orchid., 5: 237 (2009).
- Caularthron** Raf., Fl. Tellur., 2: 40 (1837).
LECTOTYPE: *C. bicornutum* (Hook.f.) Raf. (*Epidendrum bicornutum* Hook.f.) designated by van den Berg, Gen. Orch., 4: 218 (2005).
- Centranthera** Scheidw., Allg. Gartenzeitung, 10(37): 293 (1842).
NEOTYPE SPECIES: *C. punctata* Scheidw. designated by Luer, Monogr. Syst. Bot. Missouri Bot. Gard., 20: 12 (1986).
- Centrogenium** Schltr., Beih. Bot. Centralbl., 37(2): 451 (1920).
LECTOTYPE: *C. calcaratum* (Sw.) Schltr. (*Neottia calcarata* Sw.) designated by M.N. Correa, Darwiniana, 11: 81 (1955) and Angely, Fl. Analítica São Paulo, 6: 1277 (1973).
- Centroglossa** Barb.Rodr., Gen. Sp. Orchid., 2: 234 (1882).
LECTOTYPE: *C. tripollinica* (Barb.Rodr.) Barb.Rodr. (*Ornithocephalus tripollinica* Barb.Rodr.) designated by Summerhayes, Index Nom. Gen. (Pl.) 1: 312 (1962), card #64/15478 ; and Toscano, Lindleyana, 16(3): 189 (2001).
- Centrostigma** Schltr., Bot. Jahrb. Syst., 53: 522 (1915).
TYPE SPECIES: *C. occultans* (Welw. ex Rchb.f.) Schltr. (*Habenaria occultans* Welw. ex Rchb.f.) selected by Summerhayes, Kew Bull., 11(2): 219 (1956).
TYPE SPECIES: *C. schlechteri* (Kraenzl.) Schltr. (*Habenaria schlechteri* Kraenzl.) selected by E.P. Phillips, Gen. S. Afr. Fl. Pl., ed. 2, 232 (1951).
- Cephalanthera** Rich., De Orchid. Eur., 21, 29, 38 (1817).
TYPE SPECIES: *C. damasonium* (Mill.) Druce (*Serapias damasonium* Mill.) selected by Druce, Ann. Scot. Nat. Hist., 60: 225 (1906).
- Ceratandra** Eckl. ex F.A. Bauer, Ill. Orch. Pl. (Bauer & Lindl.), t. 16 (1837).
TYPE SPECIES: *C. atrata* (L.) T. Durand & Schinz (*Ophrys atrata* L.) selected by T. Durand & Schinz, Consp. Fl. Africa, 5: 123 (1895).
TYPE SPECIES: *C. chloroleuca* Eckl. ex F.A. Bauer selected by E.P. Phillips, Gen. S. Afr. Fl. Pl., ed. 2, 238 (1951).
LECTOTYPE: *C. chloroleuca* Eckl. ex F.A. Bauer designated by H.P. Linder, Taxon, 48: 48 (1999).
- Ceratandropsis** Rolfe, Fl. Cap. (Harvey), 5(3): 266 (1913).
TYPE SPECIES: *C. grandiflora* (Lindl.) Rolfe (*Ceratandra grandiflora* Lindl.) selected by E.P. Phillips, Gen. S. Afr. Fl. Pl., ed. 2, 238 (1951).
- Ceratostylis** Blume, Bijdr. Fl. Ned. Ind., 7: 304, t. 56 (1825).

LECTOTYPE: *C. subulata* Blume designated by Butzin, *Taxon*, 32(4): 630 (1983); and Royen, *Orchid. High Mts. New Guinea*, 455 (1979).

LECTOTYPE: *C. graminea* Blume designated by Averyanov, *Bot. Zhurn. (Moscow & Leningrad)*, 76(1): 126 (1991); and P.J. Cribb, *Gen. Orch.*, 4: 546 (2005).

Cestichis Thouars ex Pfitzer, *Entwurf Anordn. Orch.*, 56, 101 (1887).

TYPE SPECIES: *C. caespitosa* (Lam.) Ames (*Epidendrum caespitosum* Lam.) selected by D.L. Jones & M.A. Clements, *Orchidian*, 15(1): 37 (2005).

Chaetocephala Barb.Rodr., *Gen. Sp. Orchid.*, 2: 37, t. 802 (1881).

LECTOTYPE: *C. punctata* Barb.Rodr. designated by Summerhayes, *Index Nom. Gen. (Pl.)*, 1 : 327 (1967) card #64/15508.

Chamaeangis Schltr., *Beih. Bot. Centralbl.*, 36(2): 107 (1918).

LECTOTYPE: *C. gracilis* (Thouars) Schltr. (*Angraecum gracile* Thouars) designated by Garay, *Bot. Mus. Leafl.*, 23(4): 165 (1972) and Butzin, *Taxon*, 32(4): 630 (1983).

Chamorchis Rich., *De Orchid. Eur.*, 20, 27, 35 (1817), and *Mém. Mus. Hist. Nat.*, 4: 49 (1818).

LECTOTYPE: *C. alpina* (L.) Rich. (*Ophrys alpina* L.) designated by H. Baumann et al., *Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ.*, 21(3): 445 (1989).

Cheirorchis Carrière, *Gard. Bull. Straits Settlem.*, 7: 40 (1932).

TYPE SPECIES: *C. breviscapa* Carrière indirectly selected by Holtum, *Kew Bull.*, 14: 272 (1960).

Chelonanthera Blume, *Bijdr. Fl. Ned. Ind.*, 8: 382, t. 51 (1825).

TYPE SPECIES: *C. gibbosa* Blume NOTE: ING lists the name as lectotyped by Pfitzer, *Pflanzenr.*, IV. 50 IIB (Heft 32): 141 (1907) but there is nothing listed in the article as a type.

Chitonanthera Schltr., *Nachtr. Fl. Schutzgeb. Südsee*, 193 (1905).

TYPE SPECIES: *C. angustifolia* Schltr. selected by Schuiteman & de Vogel, *Blumea*, 48: 511 (2003).

Chloidia Lindl., *Gen. Sp. Orchid. Pl.*, 484 (1840).

TYPE SPECIES: *C. polystachya* (Sw.) Rchb.f. (*Serapias*

polystachya Sw.) indirectly selected by Cogniaux, *Fl. Bras. (Martius)*, 3(4): 276 (1895).

Chloraea Lindl., *Quart. J. Sci. Lit. Arts*, ser. 2, 1: 47 (1827).

LECTOTYPE: *C. virescens* (Willd.) Lindl. (*Cymbidium virescens* Willd.) designated by M.N. Correa, *Fl. Patagonica*, 7(2): 200 (1970) and *Gen. Orch.*, 3: 7 (2003).

Christensonella Szlach., Mytnik, Górnjak & Smiszek *Polish Bot. J.*, 51(1): 57 (2006).

TYPE SPECIES: *C. paulistana* (Hoehne) Szlach., Mytnik, Górnjak & Smiszek (*Maxillaria subulata* Hoehne) selected by M.W. Chase, *Gen. Orchid.*, 5: 135 (2009).

Chrysoglossum Blume, *Bijdr. Fl. Ned. Ind.*, 7: 337, t. 7 (1825).

TYPE SPECIES: *C. ornatum* Blume selected by J.J. Smith, *Bull. Jard. Bot. Buitenzorg*, ser. 2, 8: 3 (1912).

Chytroglossa Rchb.f., *Hamburger Garten-Blumenzeitung*, 19: 546 (1863).

LECTOTYPE: *C. aurata* Rchb.f. designated by Angely, *Fl. Analítica São Paulo*, 6: 1328 (1973).

LECTOTYPE: *C. marileoniae* Rchb.f. designated by Toscano, *Lindleyana*, 16(3): 189 (2001).

Cirrhaea Lindl., *Edwards's Bot. Reg.*, 18: t. 1538 (1832).

TYPE SPECIES: *Cirrhaea dependens* (Loddiges) Loudon (*Cymbidium dependens* Loddiges) selected by G. Gerlach, *Gen. Orch.*, 5: 404 (2009).

Cirrhopetalum Lindl., *Gen. Sp. Orchid. Pl.*, 58 (1830), and *Bot. Reg.*, 10: sub 832 (1824)

LECTOTYPE: *Bulbophyllum longiflorum* Thouars designated by Garay et al., *Nord. J. Bot.*, 14(6): 614 (1994).

Cladobium Schltr., *Beih. Bot. Centralbl.*, 37(2): 431 (1920).

LECTOTYPE: *C. ceracifolium* (Barb.Rodr.) Schltr. (*Spiranthes ceracifolia* Barb.Rodr.) designated by Burns-Balogh, *Amer. J. Bot.*, 69: 1131 (1982).

TYPE SPECIES: *C. ceracifolium* (Barb.Rodr.) Schltr. indirectly selected by Garay, *Bot. Mus. Leafl.* 28: 330 (1982).

Cleisostoma Blume, *Bijdr. Fl. Ned. Ind.*, 8: 362, t. 27 (1825).

- TYPE SPECIES: *C. sagittatum* Blume selected by Garay, Bot. Mus. Leaflet, 23(4): 168 (1972) and Christenson, Kew Bulletin, 41(4): 835 (1986).
LECTOTYPE: *C. sagittatum* Blume designated by Averyanov, Bot. Zhurn. (Moscow & Leningrad), 76(6): 893 (1991).
- Cleistis** Rich. ex Lindl., Gen. Sp. Orchid. Pl., 409 (1840).
TYPE SPECIES: *C. grandiflorum* (Aublet) Schltr. (*Limodorum grandiflorum* Aublet) selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 1(1): 781 (1871).
- Cnemidia** Lindl., Edwards's Bot. Reg., 19: sub 1618 (1833).
TYPE SPECIES: *Cnemidia angulosa* Lindl. selected by Hooker f., Fl. Brit. Ind., 6: 92 (1890).
- Coccineorchis** Schltr., Beih. Bot. Centralbl., 37(2): 434 (1920).
LECTOTYPE: *C. corymbosa* Kraenzl. designated by Burns-Balogh, Amer. J. Bot., 69: 1131 (1982).
LECTOTYPE: *C. cernua* (Lindl.) Garay (*Stenorrhynchos cernuum* Lindl.) designated by Rutkowski et al., Phylogeny & Taxonomy Subtribes Spiranthinæ, 158 (2008).
- Codonorchis** Lindl., Gen. Sp. Orch. Pl., 410 (1840).
LECTOTYPE: *C. lessonii* (d'Urville) Lindl. (*Epipactis lessonii* d'Urville) designated by M.N. Correa, Fl. Patagónica, 8(2): 191 (1969).
- Coelia** Lindl., Gen. Sp. Orchid. Pl., 36 (1830).
TYPE SPECIES: *C. bauerana* Lindl., nom. illeg.
TYPE SPECIES: *C. triptera* (Sm.) G. Don ex Steudel, (*Epidendrum tripterum* Sm.) selected by Steudel, Nomencl. Bot., 1: 394 (1841).
- Coeloglossum** Hartman, Handb. Skand. Fl., 323, 329 (1820).
TYPE SPECIES: *C. viride* (L.) Hartman (*Satyrium viride* L.) selected by Britton & Brown, III. Fl. N.U.S., ed. 2, 1: 552 (1913).
LECTOTYPE: *C. viride* (L.) Hartman designated by H. Baumann et al., Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ., 21(3): 447 (1989).
- Coelogyne** Lindl., Collect. Bot., sub t. 33 (1821).
TYPE SPECIES: *C. cristata* Lindl. selected by C.H. Curtis, Orchids (Curtis), 82 (1950).
LECTOTYPE: *C. cristata* Lindl., designated by Butzin, Taxon, 32(4): 630 (1983); Averyanov, Bot. Zhurn. (Moscow & Leningrad), 75(12): 1767 (1990);
- Cogniauxiocharis** (Schltr.) Hoehne, Arq. Bot. Estado São Paulo, n.s., 1(6): 132 (1944).
LECTOTYPE: *C. glazioviana* (Cogn.) Hoehne (*Pelexia glazioviana* Cogn.) designated by Rutkowski et al., Phylogeny & Taxonomy Subtribes Spiranthinæ, 167 (2008).
- Coilostylis** Raf., Fl. Tellur., 4: 37 (1838).
LECTOTYPE: *C. emarginata* (L.) Raf. (*Epidendrum ciliare* L.) designated by Christenson, Richardiana, 3: 114 (2003).
- Colax** Lindl., Edwards's Bot. Reg., 29(Misc): 50 (1843).
TYPE SPECIES: *C. viridis* (Lindl.) Lindl. (*Maxillaria viridis* Lindl.) selected by Pupulin, Gen. Orchid., 5(2): 517 (2009).
- Comparettia** Poepp. & Endl., Nova Gen. Sp., 1: 42, t. 73 (1836).
TYPE SPECIES: *C. falcata* Poepp. & Endl. indirectly selected by Reichenbach f., Ann. Bot. Syst., 6: 688 (1863).
TYPE SPECIES: *C. saccata* Poepp. & Endl. selected by Britton & Wilson, Sci. Surv. Porto Rico, 5(2): 211 (1924).
LECTOTYPE: *C. falcata* Poepp. & Endl. designated by Angely, Fl. Analítica São Paulo, 6: 1321 (1973).
- Comperia** K. Koch, Linnaea, 22: 287 (1849).
TYPE SPECIES: *C. comperiana* (Steven) Asch. & Graebn. (*Orchis comperiana* Steven) selected by Ascherson & Graebner, Syn. Mitteleur. Fl., 3: 620 (1907); and Pfeiffer, Nomencl. Bot. (Pfeiffer), 1(2): 837 (1872) indirectly selected type species.
- Corallorrhiza** Gagnebin, Acta Helv. Phys.-Math., 2: 61 (1755).
TYPE SPECIES: *C. innata* R.Br. indirectly selected by McVaugh, Fl. Novo-Galiciana, 16: 57 (1983).
LECTOTYPE: *C. trifida* (L.) Châtelain (*Ophrys corallorrhiza* L.) designated by H. Baumann et al., Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ., 21(3): 449 (1989).
- Corybas** Salisb., Parad. Lond., 2: t. 83 (1807).

- TYPE SPECIES: *Corysanthes bicalcarata* R.Br. This name is considered a synonym of *Corybas aconitiflorus* Salisb. selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 1(2): 883 (1872).
- Corycium** Sw., Kongl. Vetensk. Acad. Nya Handl., ser. 2, 21: 220, t. 3g (1800).
TYPE SPECIES: *C. crispum* (Thunberg) Sw. (*Arethusa crispa* Thunberg) selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 1(2): 883 (1872).
TYPE SPECIES: *C. orobanchoides* (L.f.) Sw. (*Satyrium orobanchoides* L.f.) selected by H. Kurzweil, Gen. Orch., 2: 23 (2001).
- Corysanthes** R.Br., Prodr. Fl. Nov. Holland., 328 (1810).
TYPE SPECIES: *C. fimbriata* R.Br. selected by Endlicher, Gen. Pl. (Endlicher), 218 (1837).
- Costaricaea** Schltr., Repert. Spec. Nov. Regni Veg. Beih., 19: 30 (1923).
LECTOTYPE: *C. amparoana* Schltr. designated by Pupulin, Bot. J. Linn. Soc., 163: 122 (2010).
- Cranichis** Sw., Nov. Gen. Spec. Pl. Prodr., 8: 120 (1788).
TYPE SPECIES: *C. muscosa* Sw. selected by Acuña, Cat. Descr. Orquid. Cuba, 60: 48 (1939).
- Cremastra** Lindl., Gen. Sp. Orchid. Pl., 172 (1833).
TYPE SPECIES: *Cremastra wallichiana* Lindl. nom. illeg. This type name is now considered a synonym of *C. appendiculata* (D. Don) Makino (*Cymbidium appendiculatum* D. Don) selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 1(2): 908 (1872).
- Crepidium** Blume, Bijdr. Fl. Ned. Ind., 8: 387, t. 63 (1825).
LECTOTYPE: *C. reedii* Blume designated by Seidenfaden, Dansk Bot. Arkiv, 33 (1): 43 (1978).
TYPE SPECIES: *C. reedii* Blume selected by Szlachetko, Fragm. Florist. Geobot. Suppl., 3: 123 (1995).
- Cryptophoranthus** Barb.Rodr., Gen. Sp. Orchid. Nov., 2: 79, t. 476 (1881).
TYPE SPECIES: *C. fenestratus* (Barb.Rodr.) Barb.Rodr. (*Pleurothallis fenestrata* Barb.Rodr.) selected by Acuña, Cat. Descr. Cuba, 60: 115 (1939).
LECTOTYPE: *C. fenestratus* (Barb.Rodr.) Barb.Rodr. designated by Butzin, Taxon, 32(4): 631 (1983); and Angely, Fl. Analitica São Paulo, 6: 1279 (1973).
- Cryptostylis** R.Br., Prodr. Fl. Nov. Holland., 317 (1810).
TYPE SPECIES: *C. erecta* R.Br. selected by N. Hallé, Fl. Nouvelle Caledonie & Depend., 8: 481 (1977).
LECTOTYPE: *C. longifolia* R.Br., designated by Averyanov, Bot. Zhurn. (Moscow & Leningrad), 75: 1021 (1990).
- Cybelion** Spreng., Veg. (Sprengel), ed. 16, 3: 679, 721 (1826).
TYPE SPECIES: *C. pulchellum* (Kunth) Spreng. (*Ionopsis pulchella* Kunth) selected by Garay & H.R. Sweet, J. Arnold Arbor., 53(4) 518 (1972).
- Cymbidiella** Rolfe, Orchid Rev., 26: 58 (1918).
LECTOTYPE: *C. flabellata* (Thouars) Rolfe (*Cymbidium flabellatum* Thouars) designated by Alrich & W.E. Higgins, Ill. Dict. Orchid Gen., 108 (2008).
TYPE SPECIES: *C. flabellata* (Thouars) Rolfe selected by M.W. Chase, Gen. Orchid., 5: 98 (2009).
- Cymbidium** Sw., Nova Acta Regiae Soc. Sci. Upsal., ser. 2, 6: 70 (1799).
LECTOTYPE: *C. aloifolium* (L.) Sw. (*Epidendrum aloifolium* L.) designated by P.F. Hunt, Kew Bull., 24(1): 94 (1970) and Averyanov, Bot. Zhurn. (Moscow & Leningrad), 76(6): 884 (1991).
- Cymbiglossum** Halbinger, Orquidea (Mexico City), n.s., 9(1): 1-2 (1983).
TYPE SPECIES: *C. cervantesii* (Lex.) Halbinger (*Odontoglossum cervantesii* Lex.) selected by M.W. Chase, Gen. Orchid., 5: 341 (2009).
- Cynorkis** Thouars, Nouv. Bull. Sci. Soc. Philom Paris, 1: 317 (1809).
TYPE SPECIES: *C. fastigiata* Thouars selected by P.J. Cribb, Man. Cult. Orch. Sp., 108 (1981).
- Cypripedium** L., Sp. Pl. (Linnaeus), ed. 1, 2: 951 (1753).
LECTOTYPE: *C. calceolus* L. designated by H. Baumann et al., Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ., 21(3): 452 (1989).
- Cyperorchis** Blume, Rumphia, 4: 47 (1849), and Mus. Bot., 1: 48 (1849).
LECTOTYPE: *Cyperorchis elegans* (Lindl.) Blume

(*Cymbidium elegans* Lindl.) designated by P.F. Hunt, Kew Bull., 24(1): 94 (1970).

Cyrtidiorchis Rauschert, Taxon, 31(3): 560 (1982).

TYPE SPECIES: *C. rhomboglossum* (F. Lehmann & Kraenzl.) Schltr. (*Chrysocycnis rhomboglossa* F. Lehmann & Kraenzl.) selected by P. Ortiz, Orquid. Colombia, ed. 2, 70 (1995).

Cyrtidium Schltr., Repert. Spec. Nov. Regni Veg. Beih., 27: 178 (1924).

TYPE SPECIES: *C. rhomboglossum* (F. Lehmann & Kraenzl.) Schltr. (*Chrysocycnis rhomboglossa* F. Lehmann & Kraenzl.) selected by Garay, Orquideologia, 4: 8 (1969).

Cyrtochilum Kunth, Nov. Gen. Pl., 1: 349, t. 84 (1816).

LECTOTYPE: *C. undulatum* Kunth designated by Garay, Bradea, 1(40): 398 (1974).

Cyrtopera Lindl., Gen. Sp. Orchid. Pl., 189 (1833).

TYPE SPECIES: *C. woodfordii* (Sims) Lindl. (*Cyrtopodium woodfordii* Sims) selected by A. Richard, Dict. Univ. Hist. Nat., 4: 561 (1844).

Cyrtorchis Schltr., Orchideen (Schlechter), ed. 1, 595 (1914).

LECTOTYPE: *C. arcuata* (Lindl.) Schltr. (*Angraecum arcuatum* Lindl.) designated by Summerhayes, Kew Bull., 3: 278 (1948).

Cyrtosia Blume, Bijdr. Fl. Ned. Ind., 8: 396, t. 6 (1825).

TYPE SPECIES: *C. javanica* Blume selected by Blume, Rumphia, 1: 199 (1837).

LECTOTYPE: *C. javanica* Blume designated by Averyanov, Bot. Zhurn. (Moscow & Leningrad), 75(12): 1760 (1990).

Cystorchis Blume, Coll. Orch., 1: 87 (1855).

TYPE SPECIES: *C. variegata* Blume selected by Ridley, J. Linn. Soc. (Bot.), 32: 399 (1896).

Cytharea Salisb., Parad. Lond., 2(1): errata (1807), and Trans. Hort. Soc. London, 1: 301 (1812).

TYPE SPECIES: *C. bulbosa* (L.) Oakes (*Cypripedium bulbosum* L.) selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 1(2): 994 (1872).

Dactylorhiza Necker ex Nevski, Trudy Bot. Inst. Akad. Nauk S.S.S.R., ser. 1, Fl. Sist. Vyssh. Rast., 4: 332 (1937).

TYPE SPECIES: *D. umbrosa* (Karelin & Kirilov) Nevski (*Orchis umbrosus* Karelin & Kirilov) selected by Soó, Jahresber. Naturwiss. Vereins Wuppertal, 21-22: 13 (1968).

Deiregyne Schltr., Beih. Bot. Centralbl., 37(2): 425 (1920).

LECTOTYPE: *D. chloreaeformis* (A. Rich. & Galeotti) Schltr. (*Spiranthes chloreaeformis* A. Rich. & Galeotti) designated by Garay, Bot. Mus. Leaflet, 28: 312 (1980). NOTE: The choice of *D. chloreaeformis* is against the protologue, see Szlachetko, Fragm. Florist. Geobot., 40: 794 (1995).

LECTOTYPE: *D. hemichrea* (Lindl.) Schltr. (*Spiranthes hemichrea* Lindl.) designated by Burns-Balogh, Amer. J. Bot., 69: 1131 (1982).

Dendrobium Sw., Nova Acta Regiæ Soc. Sci. Upsal., ser. 2, 6: 82 (1799).

TYPE SPECIES: *D. moniliforme* (L.) Sw. (*Epidendrum moniliforme* L.) selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 1(2): 1030 (1872) and M.A. Clements, Austral. Orchid Res., 1: 57 (1989).

LECTOTYPE: *D. moniliforme* (L.) Sw. designated by R.K. Brummitt, Taxon, 31: 542 (1982) and Averyanov, Bot. Zhurn. (Moscow & Leningrad), 76(1): 125 (1991).

Dendrochilum Blume, Bijdr. Fl. Ned. Ind., 8: 398, t. 52 (1825).

TYPE SPECIES: *D. aurantiacum* Blume selected by Bechtel et al., Man. Cult. Orchid Sp., ed 1, 127 (1981).

Dendrocolla Blume, Bijdr. Fl. Ned. Ind., 7: 286, t. 67 (1825).

TYPE SPECIES: *D. hystrix* Blume designated by J.J. Smith, Bull. Jard. Bot. Buitenzorg, ser. 3, 3: 303 (1921).

Dendrolirium Blume, Bijdr. Fl. Ned. Ind., 7: 343, t. 69 (1825).

TYPE SPECIES: *D. ornatum* Blume selected by Breiger, Orchideen (Schlechter), ed. 3, 11/12: 717 (1981).

Desmotrichum Blume, Bijdr. Fl. Ned. Ind., 329 (1825).

LECTOTYPE: *D. angulatum* Blume designated by P.F. Hunt & Summerhayes, Taxon, 10: 102 (1961).

Diaphananthe Schltr., Orchideen (Schlechter), ed. 1, 593 (1914).

LECTOTYPE: *D. pellucida* (Lindl.) Schltr. (*Angraecum*

pellucidum Lindl.) designated by Schlechter, Beih. Bot. Centralbl., 36(2): 97 (1918).

Dichaea Lindl., Gen. Sp. Orchid. Pl., 208 (1833).

TYPE SPECIES: *D. echinocarpa* (Sw.) Lindl. (*Epidendrum echinocarpa* Sw.) selected by Lindley, Bot. Reg., 18: sub 1530 (1832); and Britton & Wilson, Sci. Surv. Porto Rico, 5(2): 214 (1924).

Dichaeopsis Pfitzer, Entwurf Anordn. Orch., 107 (1887).

LECTOTYPE: *D. graminoides* (Sw.) Schltr. (*Epidendrum graminoides* Sw.) designated by Garay & H.R. Sweet, J. Arnold Arbor., 53(4): 519 (1972).

Dicrypta Lindl., Gen. Sp. Orchid. Pl., 44, 152 (1830).

TYPE SPECIES: *D. crassifolia* (Lindl.) Lindl. (*Heterotaxis crassifolia* Lindl.) selected by I. Ojeda, Gen. Orchid., 5(2): 147 (2009).

Didactyle Lindl., Fol. Orchid., 1: Didactyle, 1 (1852).

TYPE SPECIES: *Bulbophyllum gladiatum* Lindl. **invalidly** selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 1(2): 1070 (1872).

Dikylikostigma Kraenzl., Notizbl. Bot. Gart. Berlin-Dahlem., 7: 321 (1919).

LECTOTYPE: *D. preussii* Kraenzl. designated by Rutkowski et al., Phylogeny & Taxonomy Subtribes Spiranthinae, 153 (2008).

Dimerandra Schltr., Repert. Spec. Nov. Regni Veg. Beih., 17: 43 (1922).

TYPE SPECIES: *D. rimbachii* (Schltr.) Schltr. (*Epidendrum rimbachii* Schltr.) designated by Siegerist, Bot. Mus. Leaf., 30: 204 (1986).

Dinema Lindl., Orchid. Scelet., 16 (1826).

TYPE SPECIES: *D. polybulbon* (Sw.) Lindl. (*Epidendrum polybulbon* Sw.) selected by Lindley, Coll. Bot., Append.: no. 125 (1826).

Diphryllum Raf., Med. Repos., ser. 2, 5: 357 (1808).

TYPE SPECIES: *Diphryllum bifolium* Raf. designated by Rafinesque.

TYPE SPECIES: *Listera convallarioides* (Sw.) Nuttall (*Epipactis convallarioides* Sw.) selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 1(2): 1091 (1872).

Diplorrhiza Ehrhart, Beitr. Naturk. (Ehrhart), 4: 147 (1789).

TYPE SPECIES: *Satyrium viride* L. selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 1(2): 1099 (1871).

Discyphus Schltr., Repert. Spec. Nov. Regni Veg. Beih., 15: 417 (1919).

LECTOTYPE: *D. scopulariae* (Rchb.f.) Schltr. (*Spiranthes scopulariae* Rchb.f.) designated by Rutkowski et al., Phylogeny & Taxonomy Subtribes Spiranthinae, 153 (2008).

Disperis Sw., Kongl. Vetensk. Acad. Nya Handl., 21: 218, t. 3f (1800).

TYPE SPECIES: *D. circumflexa* (L.) T. Durand & Schinz (*Ophrys circumflexa* L.) selected by E.P. Phillips, Gen. S. Afr. Fl. Pl., ed. 2, 237 (1951) and H.P. Linder et al., Orchid S. Afr., 299 (1999).

LECTOTYPE: *D. circumflexa* (L.) T. Durand & Schinz designated by J.C. Manning, Taxon, 48: 48 (1999).

LECTOTYPE: *D. capensis* (L.) Sw. (*Arethusa capensis* L.) designated by J.C. Manning, Taxon, 48: 46 (1999).

Diuris Sm., Trans. Linn. Soc. London, Bot., 4: 222 (1798).

TYPE SPECIES: *D. aurea* Sm., selected by Smith, Exot. Bot., 1: 15 (1805).

Domingoa Schltr., Symb. Antill., 7: 496 (1913).

TYPE SPECIES: *D. haematochila* (Rchb.f.) Carabia (*Epidendrum haematochilum* Rchb.f.) selected by Carabia, Mem. Soc. Cub. Hist. Nat., 17(2): 143 (1943) and Acuña, Cat. Descr. Orquid. Cuba, 60: 64 (1938).

Dorycheile Rchb., Deut. Bot. Herb.-Buch, 56 (1841).

TYPE SPECIES: *D. rubra* (L.) Fuss (*Serapias rubra* L.) selected by Fuss, Fl. Transsilv., 628 (1866) and Pfeiffer, Nomencl. Bot. (Pfeiffer), 1(2): 1128 (1872).

Drakaea Lindl., Sketch Veg. Swan R., Appendix: 55 (1840).

TYPE SPECIES: *D. elastica* Lindley designated by Pfeiffer, Nomencl. Bot. (Pfeiffer), 1(2): 1134 (1872) and Clements, M.A. Aust. Orch. Res., 1: 72 (1989).

Dryadorchis Schltr., Repert. Spec. Nov. Regni Veg. Beih., 1: 976 (1913).

TYPE SPECIES: *D. barbellata* Schltr. selected by Senghas, Orchideen (Schlechter), ed. 3, 1(19-20): 1201 (1988).

Dryopeia Thouars, Hist. Orchid., tt. 1-3 (1822).

LECTOTYPE: *D. oppositifolia* Thouars designated by

- Kurzweil & Manning, *Adansonia*, ser. 3, 27(2): 167 (2005).
- Dryorkis** Thouars, *Nouv. Bull. Sci. Soc. Philom. Paris*, 1: 316 (1809).
LECTOTYPE: *D. tripetaloides* Thouars designated by Kurzweil & Manning, *Adansonia*, ser. 3, 27(2): 172 (2005).
- Elleanthus** C. Presl, *Rel. Haenk.*, 1: 97 (1827).
TYPE SPECIES: *E. lancifolius* C. Presl. selected by Britton & Wilson, *Sci. Surv. Porto Rico*, 5(2): 203 (1924).
- Eltropectris** Raf., *Fl. Tellur.*, 2: 51 (1836).
TYPE SPECIES: *E. calcarata* (Sw.) Garay & H.R. Sweet (*Neottia calcarata* Sw.) selected by Britton & Wilson, *Sci. Surv. Porto Rico*, 5(2): 186 (1924) and Garay, *Fl. Ecuador*, 9: 239 (1978).
- Ephemerantha** P.F.Hunt & Summerhayes, *Taxon*, 10(4): 102 (1961).
LECTOTYPE: *E. angulata* (Blume) P.F. Hunt & Summerhayes (*Desmotrichum angulatum* Blume) designated by P.F. Hunt & Summerhayes, *Taxon*, 10(4): 102 (1961).
- Epiblastus** Schltr., *Nachtr. Fl. Deutsch. Schutzgeb. Südsee*, 136 (1905).
TYPE SPECIES: *E. ornithidioides* Schltr. selected by van Royen, *Alpine Fl. New Guinea*, 2: 489 (1979).
- Epidendrum** L., *Sp. Pl. (Linnaeus)*, ed. 1, 2: 952 (1753) (*nom. rej.*).
TYPE SPECIES: *E. nodosum* L. selected by Britton & Wilson, *Sci. Surv. Puerto Rico*, 5(2): 203 (1924).
- Epidendrum** L., *Sp. Pl. (Linnaeus)*, ed. 2, 2: 1347 (1763) (*nom. cons.*).
LECTOTYPE: *E. nocturnum* Jacq. designated by Sprague, *Prop. Brit. Bot.*, 53 (1929) and Voss et al., *Regnum Veg* 111: 335 (1983).
- Epilyna** Schltr., *Beih. Bot. Centralbl.*, 36(2): 374 (1918).
LECTOTYPE: *E. jimenezii* Schltr. designated by Pupulin, *Bot. J. Linn. Soc.*, 163: 132 (2010).
- Epipactis** Zinn, *Cat. Pl. Hort. Gott.*, 85 (1757).
LECTOTYPE: *E. helleborine* (L.) Crantz (*Serapias helleborine* L.) designated by H. Baumann et al., *Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ.*, 21(3): 470 (1989), P.J. Cribb & J.J. Wood, *Taxon*, 48: 49 (1999) and Voss et al., *Regnum Veg* 111: 333 (1983).
- Epipogium** J.G. Gmelin ex Borkhausen, *Tent. Disp. Pl. German.*, 139 (1792).
LECTOTYPE: *E. aphyllum* Sw. (*Satyrium epipogium* L.) designated by H. Baumann et al., *Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ.*, 21(3): 477 (1989).
- Eriochilus** R.Br., *Prodr. Fl. Nov. Holland.*, 323 (1810).
TYPE SPECIES: *E. cucullatus* (Labillardière) Rchb.f. (*Epipactis cucullata* Labillardière) selected by Pfeiffer, *Nomencl. Bot. (Pfeiffer)*, 1(2): 1240 (1872).
TYPE SPECIES: *E. autumnalis* R.Br. (nom. illeg.) selected by S.D. Hopper & A.P. Brown, *Nuytsia* 16(1): 30 (2006).
- Erporkis** Thouars, *Nouv. Bull. Sci. Soc. Phil.*, Paris, 1: 317 (1809).
LECTOTYPE: *Goodyera occulta* Thouars designated by Ormerod, *Gen. Orch.*, 3: 136 (2003).
- Eulophia** R.Br. ex Lindl., *Bot. Reg.*, 7: sub 578 [573], as *Eulophus* (1821), and *Bot. Reg.*, 8: t. 686 (1822).
LECTOTYPE: *Eulophia guineensis* Lindl. designated by W. Greuter et al., *Regnum Veg.*, 118: 186 (1988).
- Eurycentrum** Schltr., *Nachtr. Fl. Deutsch. Schutzgeb. Südsee*, 89 (1905).
LECTOTYPE: *E. obscurum* (Blume) Schltr. (*Cystorchis obscura* Blume) designated by Ormerod, *Gen. Orch.*, 3: 90 (2003).
- Eurystyles** Wawra, *Österr. Bot. Zeitschr.*, 13: 223 (1863).
LECTOTYPE: *E. cotyledon* Wawra designated by Rutkowski et al., *Phylogeny & Taxonomy Subtribes Spiranthinæ*, 149 (2008).
- Evelyna** Poepp. & Endl., *Nova Gen. Sp.*, 1: 32 (1836).
TYPE SPECIES: *E. capitata* Poepp. & Endl. selected by Dressler, *Gen. Orch.*, 4: 598 (2005) and Pfeiffer, *Nomencl. Bot. (Pfeiffer)*, 1(2): 1321 (1874).
- Evota** Rolfe, *Fl. Cap. (Harvey)*, 5(3): 268 (1913).
TYPE SPECIES: *E. harveyana* (Lindl.) Rolfe (*Ceratandra harveyana* Lindl.) selected by E.P. Phillips, *Gen. S. Afr. Fl. Pl.*, ed. 2, 238 (1951).
- Fernandezia** Ruiz & Pavón, *Fl. Peruv. Prodr.*, 123, t. 27 (1794).
LECTOTYPE: *E. subbiflora* Ruiz & Pavón designated

- by Dunsterville & Garay, Venez. Orchids Ill., 5: 124 (1972).
- Flickingeria** A.D. Hawkes, Orchid Weekly, 2(46): 451 (1961).
LECTOTYPE: *F. angulata* (Blume) A.D. Hawkes (*Desmotrichum angulatum* Blume) designated by Averyanov, Bot. Zhurn. (Moscow & Leningrad), 76(1): 125 (1991).
- Fractiunguis** Schltr., Anexos Mem. Inst. Butantan, Secç. Bot. 1(4): 56 (1922).
TYPE SPECIES: *F. reflexus* (Rchb.f.) Schltr. (*Hexisea reflexa* Rchb.f.) selected by Acuña, Cat. Descr. Orquid. Cuba, 60: 89. (1938).
LECTOTYPE: *F. reflexus* (Rchb.f.) Schltr. designated by Dressler, Gen. Orch., 4: 310 (2005).
- Funkiella** Schltr., Beih. Bot. Centralbl., 37(2): 430 (1920).
LECTOTYPE: *F. hyemalis* (A.Rich. & Galeotti) Schltr. (*Spiranthes hyemalis* A.Rich. & Galeotti) designated by Rutkowski et al., Phylogeny & Taxonomy Subtribes Spiranthinæ, 168 (2008) and Burns-Balogh, Amer. J. Bot., 69: 1131 (1982).
- Galearis** Raf., Herb. Raf., 71 (1833).
LECTOTYPE: *G. spectabilis* (L.) Raf. (*Orchis spectabilis* L.) designated by Sheviak, Taxon, 48: 49 (1999).
- Galeoglossum** A.Rich. & Galeotti, Ann. Sci. Nat., Bot., sér. 3, 3: 31 (1845).
TYPE SPECIES: *G. prescottoides* A.Rich. & Galeotti selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 1(2): 1401 (1872).
LECTOTYPE: *G. prescottoides* A.Rich. & Galeotti designated by Salazar, Proc. Second Sci. Conf. Andean Orchids, 169 (2009).
- Galeottiella** Schltr., Beih. Bot. Centralbl., 37(2): 360 (1920).
LECTOTYPE: *G. sarcoglossa* (A.Rich. & Galeotti) Schltr. (*Spiranthes sarcoglossa* A.Rich. & Galeotti) designated by Burns-Balogh, Amer. J. Bot., 69(7): 1131 (1982) and Rutkowski et al., Phylogeny & Taxonomy Subtribes Spiranthinæ, 146 (2008).
- Gastrochilus** D. Don, Prodr. Fl. Nepal., 32 (1825).
LECTOTYPE: *G. calceolaris* (Buch.-Ham. ex Sm.) D. Don (*Aerides calceolare* Buch.-Ham. ex Sm.) designated by Christenson, Kew Bulletin, 41(4): 836 (1986).
- Gavilea** Poepp., Frag. Syn. Pl. Chil., 188 (1833).
LECTOTYPE: *G. leucantha* Poepp. designated by M.N. Corrêa, Fl. Patagónica, 8(2): 191 (1969) and Gen. Orch., 3: 10 (2003).
- Gennaria** Parlature, Fl. Ital. (Parlature), 3: 404 (1860).
TYPE SPECIES: *G. diphylla* (Link) Parlature (*Satyrium diphyllum* Link) selected by Schlechter, Repert. Spec. Nov. Regni Veg., 15: 296 (1918).
- Gigliolia** Barb.Rodr., Gen. Sp. Orch. Nov., 1: 25 (1877).
LECTOTYPE: *G. geraensis* Barb.Rodr. indirectly designated by Garay, Orquideologia, 9: 117 (1974).
- Glossochilopsis** Szlach., Fragm. Florist. Geobot., 3(Suppl.): 122 (1995).
LECTOTYPE: *G. chamaeorchis* (Schltr.) Szlach. (*Microstylis chamaeorchis* Schltr.) designated by Margonska, Richardiana, 8(2): 75 (2008).
- Glossodia** R.Br., Prodr. Fl. Nov. Holland., 325 (1810).
TYPE SPECIES: *G. major* R.Br. selected by M.A. Clements, Austral. Orchid. Res., 1: 83 (1989).
- Gonogona** Link, Enum. Hort. Berol. Alt., 2: 369 (1822).
TYPE SPECIES: *Goodyera repens* (L.) R.Br. (*Satyrium repens* L.) selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 1(2): 1481 (1872).
- Goodyera** R.Br., Hortus Kew, ed. 2, 5: 197 (1813).
TYPE SPECIES: *G. repens* (L.) R.Br. (*Satyrium repens* L.) selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 1(2): 1485 (1872), Britton & Brown, Ill. Fl. N.U.S., ed. 2, 1: 569 (1913) and Sprague, J. Bot., 64: 113 (1926).
LECTOTYPE: *G. repens* (L.) R.Br. designated by H. Baumann et al., Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ., 21(3): 479 (1989).
- Grastidium** Blume, Bijdr. Fl. Ned. Ind., 7: 333, 433 (1825).
TYPE SPECIES: *G. salaccense* Blume selected by Breiger, Orchideen (Schlechter), ed. 3, 11/12: 653 (1981).
- Gymnadenia** R.Br., Hortus Kew., ed. 2, 5: 191 (1813).
LECTOTYPE: *G. conopsea* (L.) R.Br. (*Orchis conopsea* L.) designated by H. Baumann et al., Mitt. Bl. Arbeitskr.

Heim. Orch. Baden-Württ., 21(3): 482 (1989).

Gymnadeniopsis Rydb., Man. Fl. N. States (Britton), 293 (1901).

TYPE SPECIES: *G. nivea* (Nuttall) Rydb. (*Orchis nivea* Nuttall) selected by Britton & Brown, Ill. Fl. N.U.S., ed. 2, 1: 552 (1913).

Gyrostachys Pers. ex Blume, Coll. Orch., 127 (1859).

TYPE SPECIES: *G. spiralis* (L.) Pers. ex Blume (*Ophrys spiralis* L.) selected by Kuntze, Rev. Gen. Pl., 2: 663 (1891).

LECTOTYPE: *G. spiralis* (L.) Pers. ex Blume designated by Garay, Bot. Mus. Leafl., 28(4) 360 (1980)[1982].

Habenaria Willd., Sp. Pl., ed. 4, 44 (1805).

TYPE SPECIES: *H. macroceratitis* Willd. (*Orchis habenaria* L.) selected by Kraenzlin, Bot. Jahrb. Syst., 16: 58 (1892).

TYPE SPECIES: *H. monorrhiza* (Sw.) Rchb.f. (*Orchis monorrhiza* Sw.) **invalidly** selected by Lindley, Bot. Reg., 18: sub 1499 (1832). The above type name is now considered a synonym of the species *Habenaria quinqueseta* var. *macroceratitis* (Willd.) Luer (*Habenaria macroceratitis* Willd.) which was lectotyped by P.J. Cribb, Taxon, 48: 48 (1999).

Hammarbya Kuntze, Revis. Gen. Pl., 2: 665 (1891).

LECTOTYPE: *H. paludosa* (L.) Kuntze (*Ophrys paludosa* L.) designated by H. Baumann et al., Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ., 21(3): 487 (1989).

Hapalorchis Schltr., Beih. Bot. Centralbl., 37(2): 362 (1920).

TYPE SPECIES: *H. candidus* (Kraenzl.) Schltr. (*Sauroglossum candidum* Kraenzl.) selected by Britton & Wilson, Sci. Surv. Porto Rico, 5(2): 186 (1924).

LECTOTYPE: *H. cheirostyloides* Schltr. designated by Rutkowski et al., Phylogeny & Taxonomy Subtribes Spiranthinae, 134 (2008).

Haraella Kudô, J. Soc. Trop. Agric., 2: 26 (1930).

LECTOTYPE: *H. retrocalla* (Hayata) Kudô (*Saccolabium retrocallum* Hayata) designated by Butzin, Taxon, 32(4): 631 (1983).

Herminium L., Opera Var., 251 (1758), and Fl. Lapp. (Linnaeus), 247 (1737).

LECTOTYPE: *H. monorchis* (L.) R.Br. (*Orchis monorchis* L.) designated by H. Baumann et al., Mitt. Bl. Arbeitskr.

Heim. Orch. Baden-Württ., 21(3): 489 (1989); and Averyanov, Bot. Zhurn. (Moscow & Leningrad), 75(7): 1027 (1990).

Hetaeria Blume, Bijdr. Fl. Ned. Ind., 8: 409, t. 14 (1930).

LECTOTYPE: *H. oblongifolia* Blume designated by L.G. Adams, Taxon, 36(3): 651 (1987).

Himantoglossum Spreng., Syst. Veg. (Sprengel), ed. 16, 3: 675, 694 (1826).

LECTOTYPE: *H. hircinum* (L.) Spreng. (*Satyrium hircinum* L.) designated by H. Baumann et al., Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ., 21(3): 491 (1989).

Holothrix Rich. ex Lindl., Gen. Sp. Orchid. Pl., 257, 283 (1835).

TYPE SPECIES: *H. hispidula* (L.f.) T. Durand & Schinz (*Orchis hispidula* L.f.) selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 1(2): 1658 (1872).

Humboldtia Ruiz & Pavón, Fl. Peruv. Chil. Prodr., 121, t. 27 (1794).

LECTOTYPE: *H. purpurea* Ruiz & Pavón designated by Garay & H.R. Sweet, J. Arnold Arbor., 53(4): 522 (1972).

Huntleya Bateman ex Lindl., Edwards's Bot. Reg., 23: sub 1991 (1837).

TYPE SPECIES: *H. sessiliflora* Bateman ex Lindl. selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 1(2): 1680 (1872).

Ibidium Salisb., Trans. Hort. Soc. London, 1: 291 (1812).

TYPE SPECIES: *I. spirale* (L.) Salisb. (*Ophrys spiralis* L.) selected by House, Bull. Torr. Club, 32: 380 (1905).

Ionopsis Kunth, Nov. Gen. Sp., 1: 348, t. 83 (1815).

TYPE SPECIES: *I. utricularioides* (Sw.) Lindl. (*Epidendrum utricularioides* Sw.) selected by M.W. Chase, Gen. Orchid., 5: 281 (2009).

Isochilus R.Br., Hortus Kew, ed. 2, 5: 209 (1813).

LECTOTYPE: *I. linearis* (Jacq.) R.Br. (*Epidendrum lineare* Jacq.), designated by Angely, Fl. Analitica São Paulo, 6: 1303 (1973) and Summerhayes, Index Nom. Gen. (Pl.), 2: 880 (1979) card #64/23515.

TYPE SPECIES: *I. linearis* (Jacq.) R.Br. selected by

Pfeiffer, Nomencl. Bot. (Pfeiffer), 1(2): 1767 (1872); and type indirectly selected by Reichenbach f., Bonplandia (Hannover), 2: 22 (1854).

Jacquinella Schltr., Repert. Spec. Nov. Regni Veg. Beih., 7: 123 (1920).

TYPE SPECIES: *J. globosa* (Jacq.) Schltr. (*Epidendrum globosum* Jacq.) selected by Britton & Wilson, Sci. Surv. Porto Rico, 5(2): 197 (1924).

Jensoa Raf., Fl. Tellur., 4: 38 (1836)[1837]

LECTOTYPE: *J. ensata* (Thunberg) Raf. nom. illeg. (*Limodorum ensatum* Thunberg) designated by P.F. Hunt, Kew Bull., 24(1): 94 (1970).

Jimensia Raf., Fl. Tellur., 4: 38 (1836)[1837].

TYPE SPECIES: *J. nervosa* Raf., nom. illeg., *Bletilla striata* (Thunberg) Rchb.f. (*Limodorum striatum* Thunberg), indirectly selected by Garay & R.E. Schultes, Bot. Mus. Leaf., 18(5): 184 (1958).

Jumellea Schltr., Orchideen (Schlechter), ed. 1, 609 (1914).

LECTOTYPE: *J. recurva* (Thouars) Schltr. (*Angraecum recurum* Thouars) designated by Garay, Bot. Mus. Leaf., 23(4): 182 (1972).

Kefersteinia Rchb.f., Bot. Zeitung (Berlin), 10: 633 (1852).

TYPE SPECIES: *K. graminea* (Lindl.) Rchb.f. (*Zygopetalon gramineum* Lindl.) designated by Garay, Orquideologia, 4: 150 (1969).

Kingidium P.F. Hunt, Kew Bull., 24(1): 97 (1970).

LECTOTYPE: *K. taeniale* (Lindl.) P.F. Hunt (*Aerides taenialis* Lindl.) designated by Averyanov, Bot. Zhurn. (Moscow & Leningrad), 76(6): 891 (1991).

Kingiella Rolfe, Orchid Rev., 25(297): 196 (1917).

LECTOTYPE: *K. taenialis* (Lindl.) Rolfe (*Aerides taenialis* Lindl.) designated by P.F. Hunt, Amer. Orchid Soc. Bull., 40(12): 1094 (1971).

Kraenzlinorchis Szlach., Orchidee (Hamburg), 55(1): 57 (2004).

LECTOTYPE: *K. mandersii* (Collett & Hemsl.) Szlach. (*Habenaria mandersii* Collett & Hemsl.) designated by H. Kurzweil, Thai For. Bull. (Bot.), 77 (2009).

Kuhlhasseltia J.J. Sm., Icon. Bogor., 4: 1, t. 301 (1910).

LECTOTYPE: *K. javanica* J.J.Sm. designated by Ormerod, Gen. Orch., 3: 110 (2003).

Laelia Lindl., Gen. Sp. Orch. Pl., 115 (1831).

TYPE SPECIES: *L. grandiflora* (Lex.) Lindl. (*Bletia grandiflora* Lex.) indirectly selected by Dandy, Kew Bull., 86. (1935).

Lanium Lindl. ex Benth., Hooker's Icon. Pl., 14: 24, t. 1334 (1881).

TYPE SPECIES: *L. avicula* (Lindl.) Benth. (*Epidendrum avicula* Lindl.) selected by Angely, Fl. Analitica São Paulo, 6: 1294 (1973).

Lecanorchis Blume, Mus. Bot., 2: 188 (1856).

LECTOTYPE: *L. javanica* Blume designated by Garay & H.R. Sweet, Orchids S. Ryukyu Islands, 49 (1974).

Leochilus Knowles & Westc., Fl. Cab., 2: 143 (1838).

TYPE SPECIES: *L. oncidoides* Knowles & Westc. designated by Knowles & Westcott.

TYPE SPECIES: *Oncidium macrantherum* Hook. **invalidly** selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 2(1): 64 (1874).

Lepanthes Sw., Nova Acta Regiae Soc. Sci. Upsal., 6: 85 (1799).

TYPE SPECIES: *L. concinna* Sw. selected by Britton & Wilson, Sci. Surv. Porto Rico, 5(2): 206 (1924).

Lepanthopsis Ames, Bot. Mus. Leaf., 1(9): 3 (1933).

TYPE SPECIES: *L. floripecten* (Rchb.f.) Ames (*Pleurothallis floripecten* Rchb.f.) selected by Garay, Orquideologia, 9: 116 (1974).

Leptoceras (R.Br.) Lindl., Sketch Veg. Swan River Colony, 53 (1840).

TYPE SPECIES: *L. menziesii* (R.Br.) Lindl. (*Caladenia menziesii* R.Br.) selected by A.S. George, Nuytsia, 1: 183 (1971).

Leucostachys Hoffmannsegg, Verz. Orchid., 26 (1842).

TYPE SPECIES: *L. procera* (Ker Gawler) Hoffmannsegg (*Neottia procera* Ker Gawler) selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 2(1): 102 (1874).

Limnorchis Rydb., Mem. New York Bot. Gard., 1: 104 (1900).

TYPE SPECIES: *L. hyperborea* (L.) Rydb. (*Orchis hyperborea* L.) selected by Britton & Brown, Ill. Fl. N.U.S., ed. 2, 1: 554 (1913).

- Limodorum** Boehm. (nom. cons.), *Definitiones Generum Plantarum*: 358 (1760).
LECTOTYPE: *L. abortivum* (L.) Sw. (*Orchis abortiva* L.) designated by Greuter et al., *Regnum Veg.* 118: 183 (1988) and H. Baumann et al., *Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ.*, (3): 493 (1989).
- Limodorum** L., *Sp. Pl.*, ed. 1, 2: 950 (1753).
TYPE SPECIES: *L. tuberosum* L. selected by & Brown, *Ill. Fl. N.U.S.*, ed. 2, 1: 562 (1913).
- Liparis** Rich., *De Orchid. Eur.*, 21, 30 & 38, f. 10 (1817).
LECTOTYPE: *L. loeselii* (L.) Rich. (*Ophrys loeselii* L.) designated by H. Baumann et al., *Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ.*, 21(3): 495 (1989).
- Lissochilus** R.Br. ex Lindl., *Bot. Reg.*, 7: t. 573, sub 578 (1821), and *Coll. Bot. (Lindley)*, t. 31 (1822).
TYPE SPECIES: *L. speciosus* R.Br. ex Lindl. selected by Pfeiffer, *Nomencl. Bot. (Pfeiffer)*, 2(1): 135 (1874).
- Listera** R.Br., *Hortus Kew.*, ed. 2, 5: 201 (1813).
LECTOTYPE: *L. ovata* (L.) R.Br. (*Ophrys ovata* L.) selected by H. Baumann et al., *Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ.*, 21(3): 499 (1989).
- Listrostachys** Rchb.f., *Bot. Zeitung (Berlin)*, 10: 930 (1852).
TYPE SPECIES: *L. jenischiana* Rchb.f. designated by H.G. Reichenbach.
TYPE SPECIES: *L. pertusa* (Lindl.) Rchb.f. (*Angraecum pertusum* Lindl.) selected by Pfeiffer, *Nomencl. Bot. (Pfeiffer)*, 2(1): 136 (1874).
- Ludisia** A.Rich., *Dict. Class. Hist. Nat.*, 7: 437 (1825).
LECTOTYPE: *L. discolor* (Ker Gawler) A.Rich. (*Goodyera discolor* Ker Gawler) designated by Ormerod, *Lindleyana*, 17(4): 211 (2002).
- Luisia** Gaudichaud-Beaupré, *Voy. Uranie, Bot.*, 426, t. 37 (1826)[1829].
TYPE SPECIES: *L. tenuifolia* Blume not validly selected by Pfeiffer, *Nomencl. Bot. (Pfeiffer)*, 2(1): 168 (1874).
- Lycaste** Lindl., *Edwards's Bot. Reg.*, 29(Misc): 14 (1843).
TYPE SPECIES: *L. macrophylla* (Poepp.) Lindl. (*Maxillaria macrophylla* Poepp.) selected by Acuña, *Cat. Descr. Orquid. Cuba*, 60: 165 (1938).
LECTOTYPE: *L. macrophylla* (Poepp.) Lindl. designated by Bullock, *Kew Bull.*, 13: 254 (1958).
LECTOTYPE: *L. plana* Lindl. designated by Oakeley, *Lycaste, Ida and Anguloa*, 22 (2008) and McVaugh, *Fl. Novo-Galiciana*, 16: 188 (1985).
- Lyperanthus** R.Br., *Prodr. Rl. Nov. Holland.*, 325 (1810).
TYPE SPECIES: *L. suaveolens* R.Br. selected by M.A. Clements, *Austral. Orchid. Res.*, 1: 90 (1989).
- Lyroglossa** Schltr., *Beih. Bot. Centralbl.*, 37(2): 448 (1920).
LECTOTYPE: *L. bradei* Schltr. ex Mansf. designated by Burns-Balogh, *Amer. J. Bot.*, 69(7): 1132 (1982).
TYPE SPECIES: *L. grisebachii* (Cogn.) Schltr. (*Spiranthes grisebachii* Cogn.) selected by Angely, *Fl. Analitica São Paulo*, 6: 1277 (1973).
- Macdonaldia** Gunn ex Lindl., *Sketch Veg. Swan Riv.*, 50, t. 9 (1840).
TYPE SPECIES: *M. smithiana* Lindl. selected by M.A. Clements, *Austral. Orchid. Res.*, 1: 137 (1989).
LECTOTYPE: *M. antennifera* Lindl. designated by Szlachetko, *Fragm. Florist. Geobot.*, 3(Suppl.): 112 (1995).
- Malaxis** Sw., *Prodr. (Swartz)*, 8: 119 (1788).
TYPE SPECIES: *M. rheedii* Sw. **invalidly** selected by Ascherson, *Fl. Prov. Brandenb.*, 1: 699 (1864).
TYPE SPECIES: *M. spicata* Sw. selected by Britton & Brown, *Ill. Fl. N.U.S.*, ed. 2, 1: 570 (1913).
- Malleola** Schltr., *Repert. Spec. Nov. Regni Veg. Beih.*, 1: 119 (1913).
LECTOTYPE: *M. sphingoides* J.J.Sm. designated by Garay, *Bot. Mus. Leafl.*, 23(4): 184 (1972) and Averyanov, *Bot. Zhurn. (Moscow & Leningrad)*, 76(6): 894 (1991).
TYPE SPECIES: *M. undulata* J.J.Sm. & Schltr. selected by Christenson, *Kew Bulletin*, 41(4): 837 (1986).
- Maxillaria** Ruiz & Pavón, *Fl. Peruv. Prodr.*, 116, t. 25 (1794).
TYPE SPECIES: *M. longipetala* Ruiz & Pavón **invalidly** selected by Acuña, *Cat. Descr. Orquid. Cuba*, 60: 171 (1938).
LECTOTYPE: *M. ramosa* Ruiz & Pavón designated by Garay & H.R. Sweet, *J. Arnold Arbor.*, 53(4): 524 (1972).
TYPE SPECIES: *M. platypetala* Ruiz & Pavón selected

Brieger & P.F. Hunt, *Taxon*, 18: 602 (1969).

LECTOTYPE: *M. platypetala* Ruiz & Pavón designated by Garay, *Harvard Pap. Bot.*, 2: 52 (1997).

Megastylis (Schltr.) Schltr., *Bot. Jahrb. Syst.*, 45: 379, 384 (1911).

TYPE SPECIES: *M. gigas* (Rchb.f.) Schltr. (*Caladenia gigas* Rchb.f.) selected by N. Hallé, *Fl. Nouvelle Calédonie & Depend.*, 8: 487 (1977).

Menadenium Raf. ex Cogn., *Fl. Bras. (Martius)*, 3(5): 581 (1902).

TYPE SPECIES: *M. kegelii* (Rchb.f.) Cogn. (*Zygopetalum kegelii* Rchb.f.) selected by Pupulin, *Gen. Orchid.*, 5: 544 (2009).

Mesadenella Pabst & Garay, *Arquin. Jard. Bot. Rio*, 12: 205 (1952).

TYPE SPECIES: *M. esmeraldae* (Linden & Rchb.f.) Pabst & Garay (*Spiranthes esmeraldae* Linden & Rchb.f.) selected by M.N. Correa, *Darwiniana*, 11: 68 (1955).

LECTOTYPE: *M. esmeraldae* (Linden & Rchb.f.) Pabst & Garay designated by Burns-Balogh, *Amer. J. Bot.*, 69: 1132 (1982).

Mesadenus Schltr., *Beih. Bot. Centralbl.*, 37(2): 367 (1920).

TYPE SPECIES: *M. galeottianus* (A.Rich.) Schltr. (*Spiranthes galeottiana* A.Rich.) selected by Britton & Wilson, *Sci. Surv. Porto Rico*, 5(2): 186 (1924).

Microchilus C. Presl, *Rel. Haenk.*, 1: 94 (1827).

LECTOTYPE: *M. minor* C. Presl designated by Ormerod, *Gen. Orch.*, 3: 121 (2003).

Microtatorchis Schltr., *Nachtr. Fl. Deutsch. Schutzgeb. Südsee*, 234 (1905).

LECTOTYPE: *M. perpusilla* Schltr. designated by Bullock, *Index Nom. Gen. (Pl.)*, 2: 1093 (1976) card #30/05211 (1958).

Microtis R.Br., *Prodr. Fl. Nov. Holland.*, 320 (1810).

LECTOTYPE: *M. rara* R.Br. designated by Garay & H.R. Sweet, *Orchids S. Ryukyu Islands*, 42 (1974).

Mischobulbum Schltr., *Repert. Spec. Nov. Regni Veg. Beih.*, 1: 98 (1911).

TYPE SPECIES: *M. scapigerum* (Hook.f.) Schltr. (*Nephelaphyllum scapigerum* Hook.f.) selected by Senghas, *Orchideen (Schlechter)*, ed. 3, 1: 851 (1984).
LECTOTYPE: *M. scapigerum* (Hook.f.) Schltr. designated

by Averyanov, *Bot. Zhurn. (Moscow & Leningrad)*, 75(12): 1765 (1990).

Monadenia Lindl., *Gen. Sp. Orchid. Pl.*, 356 (1838).

LECTOTYPE: *M. brevicornis* Lindl. designated by H.P. Linder, *Bothalia*, 13(3-4): 342 (1981).

Monanthochilus R. Rice, *Oasis (Dora Creek)*, 3(Suppl.): 2 (2004).

LECTOTYPE: *M. chrysanthus* (Schltr.) R. Rice (*Sarcochilus chrysanthus* Schltr.) designated by R. Rice, *Oasis (Dora Creek)*, 3(Suppl.): 2 (2004).

Monixus Finet, *Bull. Soc. Bot. France Mém.*, 54(9): 15 (1907).

LECTOTYPE: *M. striatus* (Thouars) Finet (*Angraecum striatum* Thouars) designated by Garay, *Kew Bull.*, 28: 496 (1973).

Mycaranthes Blume, *Bijdr. Fl. Ned. Ind.*, 7: 352, t. 57 (1825).

TYPE SPECIES: *M. lobata* Blume selected by P.J. Cribb, *Gen. Orch.*, 4: 564 (2005).

Myrobroma Salisb., *Parad. Lond.*, 2: t. 82 (1807).

TYPE SPECIES: *M. fragrans* Salisb. nom. illeg. This species is now considered a synonym of *Vanilla planifolia* Jacks. ex Andrews.

TYPE SPECIES: *Vanilla planifolia* Jacks. ex Andrews not validly selected by Pfeiffer, *Nomencl. Bot. (Pfeiffer)*, 2(1): 395 (1874).

LECTOTYPE: *Vanilla planifolia* Jacks. ex Andrews designated by Garay & H.R. Sweet, *Fl. Lesser Antilles*, 44 (1974).

Mystacidium Lindl., *Compan. Bot. Mag.*, 2(19): 205 (1837).

TYPE SPECIES: *Limodorum longicornu* Sw. This name is now accepted as a synonym of *Mystacidium capense* (L.f.) Schltr. (*Epidendrum capense* L.f.) invalidly selected by Pfeiffer, *Nomencl. Bot. (Pfeiffer)*, 2(1): 401 (1874).

Nematoceras Hook.f., *Fl. Nov.-Zel.*, 1(4): 249, t. 57 (1853).

TYPE SPECIES: *N. oblonga* Hook.f. **invalidly** selected by Pfeiffer, *Nomencl. Bot. (Pfeiffer)*, 2(1): 426 (1874).

TYPE SPECIES: *N. macranthum* Hook.f. selected by D.L. Jones & M.A. Clements, *Orchadian*, 13(10): 449 (2002).

- Neokoehleria** Schltr. Repert. Spec. Nov. Regni Veg., 10: 390 (1912).
TYPE SPECIES: *N. equitans* Schltr. selected by M.W. Chase, Gen. Orchid., 5: 248 (2009).
- Neotinea** Rchb.f., De Pollin. Orchid., 9, 18 & 29 (1852).
TYPE SPECIES: *Aceras intactum* (Link) Rchb.f. (*Orchis intacta* Link) **invalidly** selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 2(1): 428 (1874).
- Neottia** Guettard (nom. cons.), Hist. Acad. Roy. Sci. Mém. Math. Phys. (Paris), 4: 374 (1754).
LECTOTYPE: *N. nidus-avis* (L.) Rich. (*Ophrys nidus-avis* L.) designated by H. Baumann et al., Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ., 21(3): 504 (1989) and Greuter et al., Regnum Vegetabile 118: 184 (1988).
- Neottianthe** Rchb., Icon. Bot. Pl. Crit., 6: 26 (1828).
LECTOTYPE: *N. cucullata* (L.) Schltr. (*Orchis cucullata* L.) designated by H. Baumann et al., Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ., 21(3): 506 (1989).
- Nephelaphyllum** Blume, Bijdr. Fl. Ned. Ind., 8: 372, t. 22 (1825).
LECTOTYPE: *N. pulchrum* Blume designated by Averyanov, Bot. Zhurn.(Moscow & Leningrad), 75(12): 1765 (1990).
- Nigritella** Rich., De Orchid. Eur., 19, 26, 34 (1817).
LECTOTYPE: *N. nigra* (L.) Rchb.f. (*Satyrium nigrum* L.) designated by H. Baumann et al., Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ., 21(3): 507 (1989).
- Notylia** Lindl., Bot. Reg., 11: sub 930 (1825).
LECTOTYPE: *N. punctata* (Ker-Gawler) Lindl. (*Pleurothallis punctata* Ker-Gawler) designated by Butzin, Taxon, 32(4): 631 (1983).
- Odontochilus** Blume, Coll. Orchid., 79 (1859).
LECTOTYPE: *O. flavescens* (Blume) Blume (*Anoetochilus flavescens* Blume) designated by Averyanov, Turcazaninowia, 11(1): 136 (2008).
- Oeceoclades** Lindl., Edwards's Bot. Reg., 18: sub 1522 (1832).
TYPE SPECIES: *O. maculata* (Lindl.) Lindl. selected by Lindley, J. Proc. Linn. Soc., Bot., 3: 36 (1859).
LECTOTYPE: *O. maculata* (Lindl.) Lindl. (*Angraecum maculatum* Lindl.) designated by Garay & P. Taylor, Bot. Mus. Leaf., 24(9): 253 (1976).
- Oeoniella** Schltr., Beih. Bot. Centralbl., 33(2): 439 (1915).
TYPE SPECIES: *O. polystachys* (Thouars) Schltr. (*Epidendrum polystachys* Thouars) selected by Senghas, Orchidee (Hamburg), 14: 215 (1963).
- Oncidium** Sw., Vet. Akad. Handl. Stockholm, 21: 239 (1800).
TYPE SPECIES: *O. altissimum* (Jacq.) Sw. (*Epidendrum alissimum* Jacq.) selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 2(1): 497 (1874) and M.W. Chase, Gen. Orch., 5: 308 (2009).
LECTOTYPE: *O. variegatum* Sw. designated by Garay, Bradea, 1(40): 398 (1974).
TYPE SPECIES: *O. carthagenense* (Jacq.) Sw. (*Epidendrum carthagenense* Jacq.) **invalidly** selected by Britton & Wilson, Bahama Fl., 97 (1920).
- Ophrys** L., Sp. Pl. (Linnaeus), ed. 1, 2: 945 (1753).
LECTOTYPE: *O. insectifera* L. designated by M.L. Green, Prop. Brit. Bot., 185 (1929) and H. Baumann et al., Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ., 21(3): 512 (1989).
- Orchis** L., Sp. Pl. (Linnaeus), ed. 1, 2: 939 (1753).
TYPE SPECIES: *O. militaris* L. selected by Britton & Brown, Ill. Fl. N.U.S., ed. 2, 1: 551 (1913).
LECTOTYPE: *O. militaris* L. designated by H. Baumann et al., Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ., 21(3): 521 (1989).
- Oreorchis** Lindl., J. Proc. Linn. Soc., Bot., 3: 26 (1858).
LECTOTYPE: *O. patens* (Lindl.) Lindl. (*Corallorhiza patens* Lindl.) designated by Pearce & P.J. Cribb, Edinb. J. Bot., 54: 292 (1997).
- Orthoceras** R.Br., Prodr. Fl. Nov. Holland., 316 (1810).
TYPE SPECIES: *O. strictum* R.Br. selected by M.A. Clements, Austral. Orchid. Res., 1: 100 (1989).
- Orthopenthea** Rolfe, Fl. Cap. (Harvey), 5(3): 179 (1912).
TYPE SPECIES: *O. bivalvata* (L.f.) Rolfe (*Ophrys bivalvata* L.f.) selected by E.P. Phillips, Gen. S. Afr. Fl. Pl., ed. 2, 235 (1951).
- Otochilus** Lindl., Gen. Sp. Orchid. Pl., 53 (1830).
LECTOTYPE: *O. porrectus* Lindl. designated by Butzin,

Taxon, 32(4): 631 (1983).

LECTOTYPE: *O. fuscus* Lindl. designated by Averyanov, Bot. Zhurn. (Moscow & Leningrad), 75(12): 1767 (1990).

Otostylis Lindl., Gen. Sp. Orchid. Pl., 53 (1830).

TYPE SPECIES: *O. brachystalix* (Rchb.f.) Schltr. (*Zygopetalum brachystalix* Rchb.f.) selected by Pupulin, Gen. Orch., 5: 515 (2009).

Oxystophyllum Blume, Bijdr. Fl. Ned. Ind., 7: 335, t. 38 (1825).

TYPE SPECIES: *O. rigidum* Blume selected by Breiger, Orchideen (Schlechter), ed. 3, 11/12: 676 (1981).

Pachygenium Szlach., Tamayo & Rutk., Polish Bot. J., 46(1): 3 (2001).

LECTOTYPE: *P. albicans* Cogn. designated by Burns-Balogh, Amer. J. Bot., 69: 1131 (1982).

LECTOTYPE: *P. oestriiferum* (Rchb.f. & Warm.) Szlach., Tamayo & Rutk. (*Spiranthes oestriiferum* Rchb.f. & Warm.) designated by Szlachetko, Tamayo & Rutkowski, Polish Bot. J., 46(1): 3 (2001).

Pachyplectron Schltr., Bot. Jahrb. Syst., 39: 51 (1906).

TYPE SPECIES: *P. arifolium* Schltr. selected by N. Hallé, Fl. Nouvelle Calédonie & Depend., 8: 506 (1977) and P.J. Cribb, Gen. Orch., 3: 131 (1999).

Pachystelis Rauschert, Feddes Repert., 94: 456 (1983).

LECTOTYPE: *P. jimenezii* (Schltr.) Rauschert (*Scaphyglottis jimenezii* Schltr.) designated by Rauschert, Feddes Repert., 94: 456 (1983).

Palmorchis Barb.Rodr., Gen. Sp. Orch. Nov., 1: 169 (1877).

TYPE SPECIES: *P. pubescens* Barb.Rodr. selected by Schlechter, Repert. Spec. Nov. Regni Veg., 16: 442 (1920).

Pecteilis Raf., Fl. Tellur., 2: 37 (1837).

TYPE SPECIES: *P. susannae* (L.) Raf. selected by Schlechter, Repert. Spec. Nov. Regni Veg., 4: 120 (1919).

LECTOTYPE: *P. susannae* (L.) Raf. (*Orchis susannae* L.) designated by Butzin, Taxon, 32(4): 631 (1983), P.J. Cribb, Taxon, 48: 49 (1999).

TYPE SPECIES: *P. gigantea* (Sm.) Raf. (*Orchis gigantea* Sm.) **invalidly** selected by S. Misra, Orchids Orissa, 139 (2004).

Pelatantheria Ridl., J. Linn. Soc., Bot., 32: 371 (1896).

LECTOTYPE: *P. ctenoglossum* Ridl. designated by Butzin, Taxon, 32(4): 632 (1983) and Averyanov, Bot. Zhurn. (Moscow & Leningrad), 76(6): 893 (1991).

Pelexia Poiteau ex Lindl., Bot. Reg., 12: sub 985 (1826).

TYPE SPECIES: *P. spiranthoides* Lindl. This name is now considered a synonym of

P. adnata (Sw.) Poiteau ex Rich. (*Satyrium adnatum* Sw.) which was lectotyped by Garay, Fl. Less. Antill., Orchid., 68 (1974).

Pennilabium J.J.Sm., Bull. Jard. Bot. Buitenzorg, ser. 2, 13: 47 (1914).

LECTOTYPE: *P. angraecum* (Ridl.) J.J.Sm. (*Saccolabium angraecum* Ridl.) designated by Garay, Bot. Mus. Leaf., 23(4): 189 (1972) and Averyanov, Bot. Zhurn. (Moscow & Leningrad), 76(6): 892 (1991).

Penthea Lindl., Gen. Sp. Orchid. Pl., 360 (1838) and Intr. Nat. Syst. Bot., ed. 2, 446 (1836).

TYPE SPECIES: *P. patens* (L.f.) Lindl. (*Ophrys patens* L.f.) selected by E.P. Phillips, Gen. S. Afr. Fl. Pl., ed. 2, 236 (1951).

TYPE SPECIES: *P. melaleuca* (Thunberg) Lindl. (*Serapias melaleuca* Thunberg) **invalidly** selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 2(1): 627 (1874).

Pentisea (Lindl.) Szlach., Polish Bot. J., 46(1): 19 (2001).

LECTOTYPE: *P. gemmata* (Lindl.) Szlach. (*Calaenia gemmata* Lindl.) designated by Szlachetko, Polish Bot. J., 46(1): 19 (2001).

Peristylus Blume, Bijdr. Fl. Ned. Ind., 8: 404 (1825).

gemmata: *P. grandis* Blume designated by Greuter et al., Regnum Veg., 118: 183 (1988) and Seidenfaden, Dansk Bot. Arkiv, 31(3): 27 (1977).

Petalochilus R.S.Rogers, J. Bot., 62: 65 (1924).

TYPE SPECIES: *P. calyciformis* R.S. Rogers selected by D.L. Jones & M.A. Clements, Orchadian, 13(9): 406 (2001).

Phloeophila Hoehne & Schltr., Arch. Bot. São Paulo, 1(3): 199 (1926).

LECTOTYPE: *P. paulensis* Hoehne & Schltr. designated by Garay, Orquideologia, 9: 117 (1974).

Pholidota Lindl. ex Hook., Exot. Fl., 2: t. 138 (1825).

TYPE SPECIES: *P. imbricata* Hook. selected by M.A. Clements, Austral. Orchid. Res., 1: 105 (1989). This selection was not needed as Hooker originally had just one species.)

Phragmipedium (Pfitzer) Rolfe, Orchid Rev., 4: 331 (1896).

TYPE SPECIES: *P. caudatum* (Lindl.) Rolfe (*Cypripedium caudatum* Lindl.) selected by Sprague & Summerhayes, Kew Bulletin, 309 (1927).

Phymatidium Lindl., Gen. Sp. Orchid. Pl., 209 (1833).

LECTOTYPE: *P. delicatum* Lindl. designated by Angely, Fl. Analitica São Paulo, 6: 1328 (1973) and Toscano, Lindleyana, 16(3): 209 (2001).

Physoceras Schltr., Repert. Spec. Nov. Regni Veg. Beih., 33: 78 (1924).

LECTOTYPE: *P. bellum* Schltr. designated by Summerhayes, Index Nom. Gen. (Pl.), 3: 1335 (1979) card #64/24066 and J. & C. Hermans et al., Orchids Madagascar, 249 (2007).

Physosiphon Lindl., Edwards's Bot. Reg., 21: sub 1797 (1835).

TYPE SPECIES: *P. loddigesii* Lindl., nom. illeg.

TYPE SPECIES: *P. tubatus* (Loddiges) Rchb.f. (*Stelis tubata* Loddiges) selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 2(1): 705 (1873).

LECTOTYPE: *Pseudostelis spiralis* (Lindl.) Schltr. (*Physosiphon spiralis* Lindl.) designated by Garay, Orquideologia, 9: 118 (1974).

Physurus Rich. ex Lindl., Gen. Sp. Orchid. Pl., 501 (1840).

TYPE SPECIES: *P. plantagineus* (L.) Lindl. (*Satyrium plantagineum* L.) selected by Britton & Millspaugh, Bahama Fl., 87 (1920).

Pilophyllum Schltr., Orchideen (Schlechter), ed. 1, 131 (1914).

LECTOTYPE: *P. villosum* (Blume) Schltr. (*Chrysoglossum villosum* Blume) designated by van der Burgh & de Vogel, Orchid Monog., 8: 172 (1997).

Pilumna Lindl., Edwards's Bot. Reg., 30(Misc.): 73 (1844).

TYPE SPECIES: *P. laxa* Lindl. selected by M.W. Chase, Gen. Orch., 5: 380 (2009).

Piperia Rydb., Bull. Torrey Bot. Club, 28: 269, 632 (1901).

TYPE SPECIES: *P. elegans* (Lindl.) Rydb. (*Platanthera elegans* Lindl.) selected by Britton & Brown, Ill. Fl. N. U.S., ed. 2, 1: 555 (1913).

Pityphyllum Schltr., Repert. Spec. Nov. Regni Veg. Beih., 7: 162 (1920).

LECTOTYPE: *P. antioquiense* Schltr. designated by H.R. Sweet, Orquideologia, 7: 205 (1973).

Platanthera Rich., De Orchid. Eur., 20, 26, 35 (1817).

LECTOTYPE: *P. bifolia* (L.) Rich. (*Orchis bifolia* L.) designated by H. Baumann et al., Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ., 21(3):539 (1989).

Platyclinis Benth., J. Linn. Soc., Bot., 18: 295 (1881).

LECTOTYPE: *P. abbreviata* (Blume) Benth. ex Hemsl. (*Dendrochilum abbreviatum* Blume) designated by H.A. Pedersen, J.J. Wood & J.B. Comber, Opera Bot., 130: 29 (1997).

Pleione D. Don, Prodr. Fl. Nepal., 36 (1825).

LECTOTYPE: *P. praecox* (J.E. Sm.) D. Don (*Epidendrum praecox* J.E. Sm.) designated by Zhu and S. Chen, Novon, 8: 461 (1998).

Pleuranthium Benth., J. Linn. Soc., Bot., 18: 312 (1881).

TYPE SPECIES: *P. dendrobii* (Rchb.f.) Benth. (*Epidendrum dendrobii* Rchb.f.) selected by Pfitzer, Nat. Pflanzenfam., 2(6): 145 (1889).

Pogonia Juss., Gen. Pl. (Jussieu), 65 (1789).

TYPE SPECIES: *P. ophioglossoides* (L.) Ker-Gawler (*Arethusa ophioglossoides* L.) selected by Britton & Brown, Ill. Fl. N. U.S., ed. 2, 1: 559 (1913).

Polycyncis Rchb.f., Bonplandia, 3(15-16): 218 (1855).

TYPE SPECIES: *P. muscifera* (Lindl. & Paxton) Rchb.f. (*Cycnoches musciferum* Lindl. & Paxton) selected by G. Gerlach, Gen. Orchid., 5: 434 (2009).

Ponera Lindl., Gen. Sp. Orchid. Pl., 113 (1831).

TYPE SPECIES: *P. juncifolia* Lindl. designated by Lindley. TYPE SPECIES: *P. graminifolia* (Knowles & Westc.) Lindl. (*Nemaconia graminifolia* Knowles & Westc.) **invalidly** selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 2(2): 812 (1874).

Prasopphyllum R.Br., Prodr. Fl. Nov. Holland., 317 (1810).

TYPE SPECIES: *P. australe* R.Br. selected by M.A.

Clements, Austral. Orchid. Res., 1: 109 (1989).

Pristiglottis Cretz. & J.J.Sm., Acta Fauna Fl. Universali, ser. 2, 1: 4 (1934).

TYPE SPECIES: *P. uniflora* (Blume) Cretz. & J.J.Sm. (*Cystopus uniflorus* Blume) selected by Weatherby, Bull. Misc. Inform., 1935: 421 (1935).

Promenaea Lindl., Edwards's Bot. Reg., 29(Misc): 13 (1843).

LECTOTYPE: *P. lentiginosa* (Lindl.) Lindl. (*Maxillaria lentiginosa* Lindl.) designated by Butzin, Taxon, 32(4): 632 (1983).

Pseuderioopsis Rchb.f., Linnaea, 22: 852 (1850).

LECTOTYPE: *P. schomburgkii* Rchb.f. designated by Romero, Harvard Pap. Bot., 10(2): 245 (2005).

Pseudoeurystyles Hoehne, Arq. Bot. Ext. S. Paulo, 1: 129 (1943).

LECTOTYPE: *P. lorenzii* (Cogn.) Hoehne (*Stenoptera lorenzii* Cogn.) designated by Angely, Fl. Analitica São Paulo, 6: 1273 (1973).

Pseudogoodyera Schltr., Beih. Bot. Centralbl., 37(2): 369 (1920).

LECTOTYPE: *P. wrightii* (Rchb.f.) Schltr. (*Goodyera wrightii* Rchb.f.) designated by Swart, Index Nom. Gen. (Pl.), 3 : 1434 (1979) card #10/23843; Rutkowski et al., Phylogeny & Taxonomy Subtribes Spiranthinæ, 144 (2008); and Burns-Balogh, Amer. J. Bot., 69(7): 1131 (1982).

Pseudorchis Ség., Pl. Veron., 3: 254 (1754).

LECTOTYPE: *P. albidus* (L.) Á. Löve & D. Löve (*Satyrium albidum* L.) designated by H. Baumann et al., Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ., 21(3): 544 (1989).

Pseudostelis Schltr., Anexos Mem. Inst. Butantan, 1: 36 (1922).

TYPE SPECIES: *P. spiralis* (Lindl.) Schltr. (*Physosiphon spiralis* Lindl.) selected by Garay, Orquideologia, 9: 118 (1974).

LECTOTYPE: *Stelis deregularis* Barb.Rodr., designated superflously Luer, Monogr. Syst. Bot. Missouri Bot. Gard., 20: 36 (1986).

Pteroglossa Schltr., Beih. Bot. Centralbl., 37(2): 450 (1920).

LECTOTYPE: *P. macrantha* (Rchb.f.) Schltr. (*Spiranthes*

macrantha Rchb.f.) designated by Angely, Fl. Analitica São Paulo, 6: 1277 (1973), Rutkowski et al., Phylogeny & Taxonomy Subtribes Spiranthinæ, 168 (2008) and Burns-Balogh, Amer. J. Bot., 69: 1132 (1982).

Pterostylis R.Br., Prodr. Fl. Nov. Holland., 326 (1810).

TYPE SPECIES: *P. obtusa* R.Br. selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 2(2): 875 (1874).

LECTOTYPE: *P. curta* R.Br. designated by Greuter et al., Regnum Veg., 118: 183 (1988).

Pterygodium Sw., Kongl. Vetensk. Acad. Nya Handl., ser. 2, 21: 217, t. 3e (1800).

TYPE SPECIES: *P. alatum* (Thunberg) Sw. (*Ophrys alata* Thunberg) selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 2(2): 876 (1874).

TYPE SPECIES: *P. catholicum* (Thunberg) Sw. (*Ophrys alata* Thunberg) selected by E.P. Phillips, Gen. S. Afr. Fl. Pl., ed. 2, 237 (1951).

LECTOTYPE: *P. catholicum* (Thunberg) Sw. designated by K.E. Steiner, Taxon, 48: 48 (1999).

Rhipidoglossum Schltr., Beih. Bot. Centralbl., 36(2): 80 (1918).

LECTOTYPE: *R. xanthopollinium* (Rchb.f.) Schltr. (*Aeranthus xanthopollinius* Rchb.f.) designated by Summerhayes, Blumea, Suppl., 1: 80 (1937).

Rhynchopera Klotzsch, Icon. Pl. Rar. (Link), 2: 103, t. 41 (1844).

TYPE SPECIES: *R. pedunculata* Klotzsch designated by Klotzsch.

TYPE SPECIES: *R. punctata* H. Karsten not validly selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 2(2): 962 (1874).

Rhynchopreatia Schltr., Bot. Jahrb. Syst., 56: 488 (1921)

LECTOTYPE: *Rhynchopreatia waryana* Schltr. designated by Fosberg & Sacht, Micronesica, 20: 151 (1987).

Rhynchostylis Blume, Bijdr. Fl. Ned. Ind., 7: 285, t. 49 (1825)

LECTOTYPE: *R. retusa* (L.) Blume (*Epidendrum retusum* L.) designated by Christenson, Kew Bulletin, 41(4): 836 (1986).

Robiquetia Gaudichaud-Beaupré, Freycinet's Voy. Uranie, Bot., 426, t. 34 (1826)[1829]

- LECTOTYPE: *R. brevifolia* (Lindl.) Garay (*Saccolabium brevifolium* Lindl.) designated by Christenson, Kew Bulletin, 41(4): 835 (1986).
- Rodriguezia** Ruiz & Pavón, Fl. Peruv. Prodr., 115, t. 25 (1794).
- LECTOTYPE: *R. lanceolata* Ruiz & Pavón designated by Garay & H.R. Sweet, J. Arnold Arbor., 53: 527 (1972).
- Rodriguezopsis** Schltr., Repert. Spec. Nov. Regni Veg., 16: 427. (1920).
- LECTOTYPE: *R. eleutherosepala* (Barb.Rodr.) Schltr. (*Rodriguezia eleutherosepala* Barb.Rodr.) designated by Angely, Fl. Analítica São Paulo, 6: 1322 (1973) and Garay & H.R. Sweet, J. Arnold Arbor., 53: 527 (1972).
- TYPE SPECIES: *Rodriguezopsis microphyton* (Barb. Rodr.) Schltr. (*Rodriguezia microphyta* Barb.Rodr.) selected by M.W. Chase, Gen. Orchid., 5: 271 (2009).
- Roeperocharis** Rchb.f., Otia Bot. Hamburg., 104 (1881).
- LECTOTYPE: *R. bennettiana* Rchb.f. designated by P.J. Cribb, Gen. Orch., 2: 359 (2001).
- Roziella** Schltr., Repert. Spec. Nov. Regni Veg., 15: 146 (1918)
- TYPE SPECIES: *R. dilatata* (Rchb.f.) Schltr. (*Sigmatostalix dilatata* Rchb.f.) selected by M.W. Chase, Gen. Orchid., 5: 308 (2009).
- Saccolabium** Blume, Bijdr., 292, t. 50 (1825).
- LECTOTYPE: *S. pusillum* Blume designated by Christenson, Kew Bull., 41(4): 835 (1986).
- Sanderella** Kuntze, Revis. Gen. Pl., 2: 649 (1891).
- TYPE SPECIES: *S. discolor* (Barb.Rodr.) Cogn. (*Parlatorea discolor* Barb.Rodr.) selected by Cogniaux, Fl. Bras., 3(6): 239 (1905).
- Sarcopodium** Lindl. & Paxton, Paxton's Fl. Gard., 1: 155 (1850).
- TYPE SPECIES: *S. lobbii* (Lindl.) Lindl. & Paxton (*Bulbophyllum lobbii* Lindl.) selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 2(2): 1051 (1874).
- TYPE SPECIES: *S. amplum* (Lindl.) Lindl. (*Dendrobium amplum* Lindl.) **invalidly** selected by Kraenzlin, Pflanzenr. IV. 50. II(B) 21 (Heft 45): 319 (1910).
- Satyrium** L., Sp. Pl. (Linnaeus), ed. 1, 2: 944 (1753).
- LECTOTYPE: *S. viride* L. designated by M.L. Green, Prop. Brit. Bot., 185 (1929).
- Sauroglossum** Lindl., Edwards's Bot. Reg., 19: t. 1618 (1833).
- LECTOTYPE: *S. elatum* Lindl. designated by Rutkowski et al., Phylogeny & Taxonomy Subtribes Spiranthinæ, 144 (2008).
- Scaphosepalum** Pfitzer, Nat. Pflanzenfam., 2(6): 139 (1888).
- LECTOTYPE: *S. ochthodes* (Rchb.f.) Pfitzer (*Masdevallia ochthodes* Rchb.f.) designated by Garay, Orquideologia, 9: 124 (1974).
- Scaphyglottis** Poepp. & Endl., Nov. Gen. Sp. Pl., 1: 58 (1836).
- TYPE SPECIES: *S. parviflora* Poepp. & Endl. **invalidly** selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 2(2): 1068 (1874). The accepted name for *S. parviflora* is *Camaridium vestitum* (Sw.) Lindl.
- LECTOTYPE: *S. graminifolia* (Ruiz & Pavón) Poepp. & Endl. (*Fernandezia graminifolia* Ruiz & Pavón) designated by Dressler, Taxon, 9: 214 (1960) and Garay & H.R. Sweet, J. Arnold Arbor., 53: 528 (1972).
- Schiedeella** Schltr., Beih. Bot. Centralbl., 37(2): 379 (1920).
- LECTOTYPE: *S. saltensis* (Ames) Schltr. (*Spiranthes saltensis* Ames) designated by Burns-Balogh, Amer. J. Bot., 69(7): 1131 (1982).
- TYPE SPECIES: *S. transversalis* (A.Rich. & Galeotti) Schltr. (*Spiranthes transversalis* A.Rich. & Galeotti) selected by Garay, Bot. Mus. Leafl., 28(4): 357 (1982).
- LECTOTYPE: *S. llaveana* (Lindl.) Schltr. (*Spiranthes llaveana* Lindl.) designated by Rutkowski et al., Phylogeny & Taxonomy Subtribes Spiranthinæ, 173 (2008).
- Schoenorchis** Blume, Bijdr. Fl. Ned. Ind., 8: 361 (1825).
- TYPE SPECIES: *S. juncifolia* Blume selected by Garay, Bot. Mus. Leafl., 23(4): 202 (1972).
- LECTOTYPE: *Schoenorchis gemmata* (Lindl.) J.J.Sm. (*Saccolabium gemmatum* Lindl.) designated by Christenson, Kew Bulletin, 41(4): 836 (1986).
- LECTOTYPE: *S. juncifolia* Blume designated by Averyanov, Bot. Zhurn. (Moscow & Leningrad), 76(6): 894 (1991).
- Selenipedium** Rchb.f., Xenia Orch., 1: 3, t. 2 (1854).
- TYPE SPECIES: *S. chica* Rchb.f. selected by Sprague &

Summerhayes, Bull. Misc. Inform., 308 (1927).

Sepalosaccus Schltr., Repert. Spec. Nov. Regni Veg. Beih., 19: 245 (1923).

LECTOTYPE: *S. humilis* Schltr. designated by K. Barringer, Fieldiana, Bot., 17: 18 (1986).

Serapias L., Sp. Pl. (Linnaeus), ed. 1, 2: 949 (1753).

TYPE SPECIES: *S. lingua* L. selected by Sw., Kongl. Vetensk. Acad. Nya Handl., 21: 224 (1800).

LECTOTYPE: *S. lingua* L. designated by H. Baumann et al., Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ., 21(3): 558 (1989).

Smithsonia C.J.Saldanha, J. Bombay Nat. Hist. Soc., 71(1): 73 (1974).

LECTOTYPE: *S. viridiflora* (Dalzell) C.J. Saldanha (*Micropera viridiflora* Dalzell) designated by Christenson, Kew Bulletin, 41(4): 836 (1986).

Sobennikoffia Schltr., Repert. Spec. Nov. Regni Veg. Beih., 33: 361 (1925).

LECTOTYPE: *S. robusta* (Schltr.) Schltr. (*Oeonia robusta* Schltr.) designated by Butzin, Taxon, 32(4): 632 (1983).

Sobralia Ruiz & Pavón, Fl. Peruv. Prodr. 120, t. 26 (1794).

LECTOTYPE: *S. dichotoma* Ruiz & Pavón designated by Angely, Fl. Analítica São Paulo, 6: 1268 (1973).

Specklinia Lindl., Gen. Sp. Orchid. Pl., 8 (1830).

LECTOTYPE: *S. lanceola* (Sw.) Lindl. (*Epidendrum lanceola* Sw.) designated by Garay & H.R. Sweet, J. Arnold Arbor., 53: 528 (1972).

Spiranthes Rich., De Orchid. Eur., 20, 28 & 36 (1817).

LECTOTYPE: *S. spiralis* (L.) Chevallier (*Ophrys spiralis* L.) designated by M.L. Green, Prop. Brit. Bot., 100 (1929) and H. Baumann et al., Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ., 21(3): 562 (1989).

TYPE SPECIES: *S. aestivalis* (Poiret) Rich. (*Ophrys aestivalis* Poiret) **invalidly** selected by Correll, Fl. Texas, 3(3): 169 (1944).

Stauropsis Rchb.f., Hamburger Garten-Blumenzeitung, 16: 117 (1860).

TYPE SPECIES: *S. philippinensis* (Lindl.) Rchb.f. (*Trichoglottis philippinensis* Lindl.) selected by Reichenbach f., Ann. Bot. Syst., 6: 882, 932 (1864).

Stelis Sw., J. Bot. (Schrader), 2: 239 (1799).

LECTOTYPE: *S. ophioglossoides* (Jacq.) Sw. (*Epidendrum ophioglossoides* Jacq.) designated by M.L. Green, Prop. Brit. Bot., 100 (1929) and Pridgeon, Gen. Orch., 4: 405 (2005).

LECTOTYPE: *S. purpurea* (Ruiz & Pav.) Willd. (*Humboldtia purpurea* Ruiz & Pavón) designated by Garay & H.R. Sweet, J. Arnold Arbor., 53: 528 (1972).

Stenorrhynchos Rich. ex Spreng., Syst. Veg. (Sprengel), ed. 16, 3: 677 (1826).

TYPE SPECIES: *S. speciosum* (Jacq.) Spreng. (*Neottia speciosa* Jacq.) selected by Britton & Millspaugh, Bahama Fl., 86 (1920).

LECTOTYPE: *S. speciosum* (Jacq.) Spreng. designated by Burns-Balogh, Amer. J. Bot., 69(7): 1131 (1982).

LECTOTYPE: *S. orchioides* (Sw.) Rich. (*Satyrium orchioides* Sw.) **invalidly** designated by M.N. Corrêa, Darwiniana, 11: 70 (1955).

Stichorkis Thouars, Nouv. Bull. Soc. Philom., 19: 318 (1809).

LECTOTYPE: *S. disticha* (Thouars) Pfitzer (*Malaxis disticha* Thouars) designated by Rasmussen, Bot. Not., 132: 390 (1979).

Sullivania F.Muell., J. Proc. Roy. Soc. New South Wales, 15: 229 (1882).

TYPE SPECIES: *Caleya sullivanii* F.Muell. selected by D.L. Jones & M.A. Clements, Orchadian, 15(1): 36 (2005).

Synassa Lindl., Bot. Reg., 19: sub 1618 (1833).

LECTOTYPE: *S. corymbosa* Lindl. designated by Rutkowski et al., Phylogeny & Taxonomy Subtribes Spiranthinæ, 145 (2008).

Synoplectris Raf., Fl. Tellur., 2: 87 (1837).

LECTOTYPE: *S. grandiflora* (Hook.) Klotzsch (*Neottia grandiflora* Hook.) designated by Garay, Bot. Mus. Leaf., 28: 352 (1982).

Styeloglossum Schltr., Repert. Spec. Nov. Regni Veg. Beih., 19: 252 (1923).

LECTOTYPE: *S. costaricense* Schltr. designated by Barringer, Fieldiana, Bot., 17: 21 (1986).

Taniophyllum Blume, Bijdr. Fl. Ned. Ind., 8: 355, t. 70 (1825).

LECTOTYPE: *T. obtusum* Blume designated by Garay, Bot. Mus. Leaf., 23(4): 205 (1972) and Averyanov,

Bot. Zhurn. (Moscow & Leningrad), 76(6): 892 (1991).

Telipogon Kunth, Nov. Gen. Sp., 1: 335, t. 75 (1815).

TYPE SPECIES: *T. nervosus* (L.) Druce (*Tradescantia nervosa* L.) selected by M.W. Chase, Gen. Orch., 5: 362 (2009).

Tetragamestus Rchb.f., Bonplandia, 2: 21 (1854).

TYPE SPECIES: *Scaphyglottis arundinacea* Regel **invalidly** selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 2(2): 1373 (1874).

TYPE SPECIES: *T. aureus* Rchb.f. indirectly selected by Reichenbach f., Linnaea, 41: 85 (1876).

Thelasis Blume, Bijdr. Fl. Ned. Ind., 8: 385, t. 75 (1825).

TYPE SPECIES: *T. carinata* Blume selected by M.A. Clements, Austral. Orchid. Res., 1: 137 (1989).

LECTOTYPE: *T. obtusa* Blume designated by Averyanov, Bot. Zhurn. (Moscow & Leningrad), 76(1): 124 (1991).

TYPE SPECIES: *T. obtusa* Blume selected by J.J. Wood, Gen. Orch., 4: 593 (2005).

Thelychiton Endl., Prodr. Fl. Norfolk., 32 (1833).

TYPE SPECIES: *T. macropus* Endl. selected by M.A. Clements, Austral. Orchid Res., 1: 56 (1989).

Tomotris Raf., Fl. Tellur., 2: 89 (1837).

LECTOTYPE: *T. flava* (Sw.) Rchb.f. (*Serapias flava* Sw.) designated by Rasmussen, Bot. Tidssk., 71: 168 (1977).

Trachelosiphon Schltr., Beih. Bot. Centralbl., 37(2): 423 (1920).

LECTOTYPE: *Eurystyles actinosophylla* (Barb.Rodr.) Schltr. (*Spiranthes actinosophila* Barb.Rodr.) designated by Acuña, Cat. Descr. Orquid. Cuba., 60: 43 (1938).

LECTOTYPE: *T. ananassocomos* Rchb.f. designated by Burns-Balogh, Amer. J. Bot., 69(7): 1131 (1982).

Trachyrhizum (Schltr.) Brieger, Schlechter Orchideen (ed. 3), 1(11-12): 687 (1981).

TYPE SPECIES: *T. schlechteri* (Schltr.) Rauschert (*Dendrobium trachyrhizum* Schltr.) selected by Rauschert, Feddes Repert., 94(7-8): 469 (1983).

TYPE SPECIES: *Dendrobium chalmersii* F.Muell. invalidly selected by M.A. Clements, Telopea., 10(1): 280 (2003).

Traunsteinera Rchb., Fl. Saxon., 87 (1842), and Deut. Bot. Herb.-Buch, 50 (1841).

LECTOTYPE: *T. globosa* (L.) Rchb. (*Orchis globosa* L.) designated by H. Baumann et al., Mitt. Bl. Arbeitskr. Heim. Orch. Baden-Württ., 21(3): 564 (1989).

Trichoceros Kunth, Nov. Gen. Sp., 1: 337, t. 76 (1815).

TYPE SPECIES: *T. antennifer* (Humb. & Bonpl.) Kunth (*Epidendrum antenniferum* Humb. & Bonpl.) selected by M.W. Chase, Gen. Orch., 5: 378 (2009).

Trichoglottis Blume, Bijdr. Fl. Ned. Ind., 8: 359, t. 8 (1825).

TYPE SPECIES: *T. retusa* Blume selected by Garay, Bot. Mus. Leaflet, 23(4): 208 (1972).

LECTOTYPE: *T. miserum* (Ridl.) Holtum (*Saccolabium miserum* Ridl.) designated by Christenson, Kew Bulletin, 41(4): 836 (1986).

Trichotosia Blume, Bijdr. Fl. Ned. Ind., 7: 342 (1825).

LECTOTYPE: *T. pauciflora* Blume designated by Averyanov, Bot. Zhurn. (Moscow & Leningrad), 76(1): 126 (1991).

TYPE SPECIES: *T. pauciflora* Blume selected by P.J. Cribb, Gen. Orch., 4: 583 (2005).

Tridactyle Schltr., Orchideen (Schlechter), ed. 1, 602 (1914).

LECTOTYPE: *T. bicaudata* (Lindl.) Schltr. (*Angraecum bicaudatum* Lindl.) designated by Summerhayes, Kew Bull., 282 (1948).

Trigonanthe (Schltr.) Brieger, Schlechter's Orchideen, ed. 3, 7: 448 (1975).

TYPE SPECIES: *Masdevallia simula* Rchb.f. selected by Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 15: 26 (1986).

Triphora Nuttall, Gen. N. Amer., Pl., 192 (1818).

TYPE SPECIES: *T. pendula* Nuttall, nom. illeg. (*Arethusa pendula* Willd., nom. illeg.). This type name is now considered a synonym of *T. trianthophora* (Sw.) Rydb. (*Arethusa trianthophoros* Sw.) selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 2(2): 1484 (1874).

Triphorhiza Ehrhart, Beitr. Naturk. (Ehrhart), 4: 149 (1789).

TYPE SPECIES: *Satyrium albidum* L. selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 2(2): 1486 (1874).

Tylostigma Schltr., Beih. Bot. Centralbl., 4: 298 (1916).
LECTOTYPE: *T. madagascariensis* Schltr. designated by P.J. Cribb, Gen. Orch., 2: 379 (2001).

Uncifera Lindl., J. Proc. Linn. Soc., Bot., 3: 39 (1859)
LECTOTYPE: *U. obtusifolia* Lindl. designated by Christenson, Kew Bulletin, 41(4): 837 (1986) and Averyanov, Bot. Zhurn. (Moscow & Leningrad), 76(6): 893 (1991).

Vanilla Plum. ex Mil., Gard. Dict., abridged ed. 4, 3: without page number (1754).

TYPE SPECIES: *V. mexicana* Mil. designated by Mansfeld, Kulturpflanze, 2: 587 (1959); Angely, Fl. Analítica São Paulo, 6: 1267 (1973), and Averyanov, Bot. Zhurn. (Moscow & Leningrad), 75(12): 1760 (1990).

TYPE SPECIES: *V. mexicana* Mil. selected by Britton & Wilson, Bahama Fl., 83 (1920).

LECTOTYPE: *V. planifolia* Jacks. designated by Garay & H.R. Sweet, Fl. Lesser Antilles, 44 (1974).

Vrydagzynea Blume, Coll. Orchid., 71, tt. 17 (1858).

LECTOTYPE: *V. albida* (Blume) Blume (*Hetaeria albida* Blume) designated by Averyanov, Bot. Zhurn. (Moscow & Leningrad), 75(7): 1023 (1990).

Warczewiczella Rchb.f., Bot. Zeitung (Berlin), 10: 635 (1852).

TYPE SPECIES: *W. discolor* (Lindl.) Rchb.f. (*Warrea discolor* Lindl.) selected by Britton & Wilson, Sci. Surv. Porto Rico, 5(2): 214 (1924).

Zeuxine Lindl., Coll. Bot. (Lindl.), App. [n. 18] (1826).

TYPE SPECIES: *Z. stratematica* (L.) Schltr. (*Orchis stratematica* L.) designated by P.J. Cribb, Taxon, 48: 49 (1999).

Zygosepalum Rchb.f., Ned. Kruidk. Arch., 4: 330 (1859).

TYPE SPECIES: *Z. kegelii* (Rchb.f.) Rchb.f. (*Zygopetalum kegelii* Rchb.f.) selected by Pupulin, Gen. Orch., 5: 544 (2009).

Zygotates Lindl., Edwards's Bot. Reg., 23: 1927 (1837)

LECTOTYPE: *Z. lunata* Lindl. designated by Angely, Fl. Analítica São Paulo, 6: 1328 (1973).

LECTOTYPE: *Z. cornuta* Lindl. designated by Toscano, Lindleyana, 16(3): 193 (2001).

Commentary. When using various sources for basic lectotype research we have come across some listings that state the name as being lectotypified, but upon further investigation of the original cited literature find the statement to be untrue. All the taxonomic citations in this paper have been verified with original literature.

There are many names currently listed in *Index Nominum Genericorum* (ING) as being lectotypified. Many of the names are correctly listed, but there are also many names that are not true lectotypes but just various authors listing a name as a type species for a given genus (selected). There are others listed as having lectotypes but upon reading the literature cited find that the authors provided no types or lectotype names¹.

Genus names listed in ING that are just listings of type species for a genus and have NOT been lectotypified:

Aa, *Amphigena*, *Ancistrorhynchus*, *Anochilus*, *Arethusa*, *Blephariglotis*, *Bletia*, *Brownleea*, *Centrostigma*, *Cephalanthera*, *Ceratandropsis*, *Chrysoglossum*, *Cladobium*, *Cleisostoma*, *Comparettia*, *Corysanthes*, *Crepidium*, *Cyrtopera*, *Cyrtosia*, *Cystorchis*, *Dryadorchis*, *Epiblastus*, *Evota*, *Gennaria*, *Gymnadeniopsis*, *Habenaria*, *Kefersteinia*, *Limnorchis*, *Malaxis*, *Oeceoclades*, *Orthopenthea*, *Palmorchis*, *Penthea*, *Physosiphon*, *Physurus*, *Piperia*, *Pleione*, *Pogonia*, *Pterygodium*, *Satyrium*, *Schoenorchis*, *Stauropsis*, *Stenorrhynchus*, *Trichoglottis*, *Triphora*.

These names are listed in ING as lectotypified, which at the time they were not, but have since been lectotypified by various authors in other literature:

Ania, *Barbosella*, *Coelogyne*, *Cypripedium*, *Cyrtochilum*, *Disperis*, *Goodyera*, *Ophrys*, *Orchis*, *Pecteilis*, *Schiedeella*.

These are names listed in ING as lectotypified, but they are NOT:

Capanemia, *Chelonanthera*, *Dendrochilum*, *Diaphananthe*.

The names that Alrich previously published (Selbyana 29(2) 2008) as published by Pfeiffer, are just that a list of type names for various genera and are NOT true lectotypes.

¹ These lists are only current as of March 1 2010.

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