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## 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. Leaf., 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).

**Ancistrorhynchus** 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. miniatum* (Lindl.) Schltr. (*Saccolabium minitum* 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 Hágsater & 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).

***Blephariglottis*** 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. Leaf., 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-Würt., 21(3): 445 (1989).

**Cheirorchis** Carrière, Gard. Bull. Straits Settle., 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, Górniak & Smiszek Polish Bot. J., 51(1): 57 (2006).

TYPE SPECIES: *C. paulistana* (Hoehne) Szlach., Mytnik, Górniak & 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. Leaf. 28: 330 (1982).

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



TYPE SPECIES: *C. sagittatum* Blume selected by Garay, Bot. Mus. Leaf., 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, Ill. 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. Analítica 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 Calédonie & 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. (*Chrysocynis 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. (*Chrysocynis 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. Leaf., 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 Regiae 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 echinocarpum* 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 Spiranthinæ, 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., Appendix: 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 Spiranthinæ, 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).
- Eltroplectris** 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. prescottiioides* A.Rich. & Galeotti selected by Pfeiffer, Nomencl. Bot. (Pfeiffer), 1(2): 1401 (1872).

LECTOTYPE: *G. prescottiioides* 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. Leaf., 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).

**Hermidium** 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. Analítica 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 recurvum* 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. Analítica 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).

**Maddonaldia** 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. Leaf.*, 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. oestrikerum* (Rchb.f. & Warm.) Szlach., Tamayo & Rutk. (*Spiranthes oestrikerum* 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. Analítica 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. (*Satyrion 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).

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

TYPE SPECIES: *P. muscifera* (Lindl. & Paxton) Rchb.f. (*Cynoches 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. Analítica 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. Analítica 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).

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

LECTOTYPE: *Rhynchophreatia waryana* Schltr. designated by Fosberg & Sachet, 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).

**Roezliella** 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. (*Parlatoria 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. Leaf., 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. Leaf., 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. orchoides* (Sw.) Rich. (*Satyrium orchoides* 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).

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

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

**Taeniophyllum** 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).

**Zygostates** 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 names<sup>1</sup>.

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*, *Satyrrium*, *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.

<sup>1</sup> These lists are only current as of March 1 2010.



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