

UNPUBLISHED ISOTYPES OF ORCHIDACEAE CONSERVED AT THE MARIE SELBY BOTANICAL GARDENS (SEL)

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ABSTRACT Previously unpublished isotypes of Orchidaceae conserved at The Marie Selby Botanical Gardens (SEL) are enumerated. These are largely derived from the personal herbarium of L. O. Williams.

Every herbarium includes specific sets of specimens that are important as a collection. These may represent material from one collector, floristic region, or researcher or may be historically significant in and of themselves. Occasionally these collections warrant exhaustive cataloging and description (e.g., Dandy, 1958). More commonly special collections merit simple mention as a signal to researchers such as the "Important Collections" category in the *Index Herbariorum* (Holmgren et al., 1981). One collection of herbarium material conserved at SEL deserves moderate description because of the number of previously unpublished isotypes of Orchidaceae it contains; the personal herbarium of Louis O. Williams.

In 1976 the personal herbarium and library of L. O. Williams was purchased by The Marie Selby Botanical Gardens. Williams' library of 193 books and many pamphlets were used to fill gaps in the Gardens' extensive holdings; his manuscript notes and unpublished data were incorporated in the Gardens' archives; and his reprint collection (more than 4,000 reprints) was distributed among the species folders of the Orchid Identification Center (O.I.C.) and in the Gardens' reprint collection. Surplus reprints have been distributed to orchid researchers and have been made available to the general public through the Gardens' bookshop. Williams' personal herbarium, numbering approximately 2,000 mounted sheets, was incorporated into the orchid herbarium and has been freely available to researchers.

The orchid herbarium at The Marie Selby Botanical Gardens numbers more than 25,000 specimens, either dried or preserved in an alcohol solution. Of that number more than 1,100 have been identified as types. The vast majority of these represent Andean (esp. Ecuadorian) taxa and (or) members of the Pleurothallidinae. Most of these types represent taxa published by the Gardens' staff and were cited in species descriptions in the Gardens' publications, *Selbyana* and *Icones Plantarum Tropicarum*. In addition some taxa were published elsewhere, notably in *Phytologia*. In 1986, cognizant of the Gardens' pre-

carious location in a hurricane zone, all types were removed from the general and orchid herbaria and moved to temporary housing in the Gardens' tissue culture laboratory, the Eric Young Micropropagation Centre. The concrete-block construction of the Centre is regarded as "hurricane proof" and provides greater protection than the wood-framed buildings currently housing the herbaria.

In the process of identifying and verifying type material at SEL many previously unpublished isotypes were revealed, largely contained in Williams' herbarium. A list of these is presented here as an aide to monographers and contributors to the Orchidaceae for *Flora Mesoamericana* and other neotropical monographic/floristic accounts.

ISOTYPES

- Bletia nagelii* L. O. Wms., Bot. Mus. Leaf. Harv. Univ. 247. 1946. ISOTYPE: Mexico, Oaxaca, *Conzatti & Nagel 7113*, SEL! (012378).
- Cryptophoranthus lepidotus* L. O. Wms., Ann Missouri Bot. Gard. 29: 340, t. 30. 1942. ISOTYPE: Panama, Cocle, *Allen 2718*, SEL! (012218).
- This species was synonymized to *Zootrophion hypodiscus* (Reichb. f.) Luer by Luer (1982).
- Cyrtopodium broadwayi* Ames, Orchid. 7: 81. 1922. ISOTYPE: Trinidad, *Broadway 2343*, SEL! (012231).
- This species has been reduced to *C. parviflorum* Lindl. by authors (q.v., *Dunsterville & Garay*, 1965).
- Epidendrum eximium* L. O. Wms., Amer. Orch. Soc. Bull. 10: 103, t. 4. 1941. ISOTYPE: Mexico, Chiapas, *Nagel 5709*, SEL! (009670).
- Epidendrum mariae* Ames, Bot. Mus. Leaf. Harv. Univ. 5: 36. 1937. ISOTYPE: Mexico, San Luis Potosi, *Nagel 5103*, SEL! (009905).
- This showy species was transferred to *Encyclia* by Hoehne (1952).
- Epidendrum nagelii* L. O. Wms., Amer. Orch.

- Soc. Bull. 10: 103, t. 4. 1941. ISOTYPE: Mexico, Guerrero, *Nagel 1909*, SEL! (012327).
- Liparis cordiformis* C. Schweinf., Bot. Mus. Leaf. Harv. Univ. 4: 110. 1937. ISOTYPE: Mexico, Michoacan, *Nagel 3135*, SEL! (012652).
- Williams (1950) reduced this species to a variety of *L. fantastica* to which it is allied.
- Masdevallia allenii* L. O. Wms., Ann. Missouri Bot. Gard. 27: 273, pl. 31. 1940. ISOTYPE: Panama, Cocle, *Allen 1230*, SEL! (010203).
- This species was synonymized to *Trisetella tri-dactylites* (Reichb. f.) Luer by Luer (1980).
- Masdevallia borucana* Allen, Ceiba 3: 147. 1952. ISOTYPE: Costa Rica, Puntarenas, *Allen 5361*, SEL! (010208).
- This species is generally considered a synonym of *M. lata* Reichb. f. (q.v., Luer, 1988).
- Neowilliamsia epidendroides* Garay, Orchid Dig. 41: 20. 1977. ISOTYPE: Costa Rica, Cartago, *Lent 1390*, SEL! (010358).
- Odontoglossum johnsonorum* L. O. Wms., Ceiba 4: 191. 1954. ISOTYPES: (1) Mexico, Chiapas, *Johnson 1250-7*, SEL! (010400); (2) composite sheet; Mexico, Chiapas, *Johnson 1250-7, -16, -17, -30*, SEL! (010403).
- Pleurothallis carnosilabia* Heller & Hawkes, Phytologia 9: 26. 1966. ISOTYPE: Nicaragua, Chontales, *Heller 6537*, SEL! (010596).
- Pleurothallis eximia* L. O. Wms., Amer. Orch. Soc. Bull. 11: 168, t. 5. 1942. ISOTYPE: Mexico, Oaxaca, *Nagel & Juan G. 6067*, SEL! (010642).
- Pleurothallis nigriflora* L. O. Wms., Amer. Orch. Soc. Bull. 11: 166, t. 5. 1942. ISOTYPE: Mexico, Morelos, *Oestlund 6016*, SEL! (058463).
- Pleurothallis rowleei* Ames, Sched. Orch. 1: 11. 1922. ISOTYPE: Costa Rica, La Palma, *W. & H. E. Rowlee 236*, SEL! (010686).
- Ponera exilis* Dressl., An. Inst. Biol. Univ. Nac. Auton. Mex., Bot. 39(1): 120. 1971. ISOTYPE: Mexico, State of Mexico, *Hinton 2346*, SEL! (010743).
- Ponera glomerata* Correll, Bot. Mus. Leaf. Harv. Univ. 9: 132. 1941. ISOTYPE: Mexico, Chiapas, *Nagel 5654*, SEL! (010741).
- Ponera longipetala* Correll, Bot. Mus. Leaf. Harv. Univ. 9: 135. 1941. ISOTYPE: Mexico, Guerrero, *Nagel 3252*, SEL! (010746).
- Scaphyglottis pachyphylla* L. O. Wms., Bot. Mus. Leaf. Harv. Univ. 12: 244. 1946. ISOTYPE: Mexico, State of Mexico, *Hinton 1691*, SEL! (010823).
- This species was transferred to *Homalopetalum* by Dressler (1964).
- Scaphyglottis pumila* Ames, Amer. Orch. Soc. Bull. 10: 49, t. 2. 1941. ISOTYPE: Mexico, San Luis Potosi, *Juan G. & Nagel 4791*, SEL! (010825).
- This species was transferred to *Homalopetalum* by Dressler (1964).
- Sigmatostalix mexicana* L. O. Wms., Amer. Orch. Soc. Bull. 10: 239, t. 8. 1942. ISOTYPE: Mexico, Guerrero, *Nagel 1987*, SEL! (010837).
- Spiranthes falcata* L. O. Wms., Bot. Mus. Leaf. Harv. Univ. 12: 228. 1946. ISOTYPE: Mexico, Durango, *Juan G. 5023*, SEL! (010980).
- This species was transferred to *Deiregyne* by Garay (1980) and to *Schiedeella* by Burns-Balogh (1981).
- Spiranthes gonzalezii* L. O. Wms., Bot. Mus. Leaf. Harv. Univ. 12: 229. 1946. ISOTYPE: Mexico, Nayarit, *Juan G. 5077*, SEL! (010983).
- This species was transferred to *Physogyne* by Garay (1980) and to *Pseudogodyera* by Burns-Balogh (1986).
- Spiranthes nagelii* L. O. Wms., Bot. Mus. Leaf. Harv. Univ. 12: 230, t. 32. 1946. ISOTYPE: Mexico, San Luis Potosi, *Nagel & Dino 6187*, SEL! (011017).
- This species was transferred to *Schiedeella* by Garay (1980) and maintained in that genus by Burns-Balogh (1981).
- Spiranthes pseudogodyerioides* L. O. Wms., Bot. Mus. Leaf. Harv. Univ. 12: 235, t. 33. 1946. ISOTYPE: Mexico, San Luis Potosi, *Dino & Nagel 5222*, SEL! (011040).
- This species has been referred to *Pseudogodyera wrightii* (Reichb. f.) Schltr. by both Burns-Balogh (1986) and Garay (1980).
- Spiranthes tenuissima* L. O. Wms., Bot. Mus. Leaf. Harv. Univ. 12: 235, t. 33. 1946. ISOTYPE: Mexico, Morelos, *Juan G. 3669*, SEL! (011061).
- This species has been referred to *Mesadenus* by Garay (1980) and to *Brachystele* by Burns-Balogh (1986).
- Spiranthes umbraticola* L. O. Wms., Phytologia 26(6): 435. 1973. ISOTYPE: Guatemala, Peten, *Ortiz 3*, SEL! (011068).
- This species has been referred to *Mesadenella petensis* (L. O. Wms.) Garay by Garay (1980), a species accepted as a *Stenorrhynchos* by Burns-Balogh & Greenwood (Burns-Balogh, 1986).
- Tropidia eatonii* Ames, Contr. Orch. S. Fla. 14. 1904. ISOTYPE: U.S.A., Florida, *Eaton s.n.*, SEL! (011353).

This name is generally considered a synonym of *T. polystachya* (Sw.) Ames.

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