

## NOTES ON THE GENUS *STICHORKIS* (ORCHIDACEAE, MALAXIDINAE) IN MALESIA: NEW COMBINATIONS, SYNONYMS AND LECTOTYPIFICATIONS

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**ABSTRACT.** 41 new combinations, two synonyms and three lectotypifications from the genus *Stichorkis* are proposed. This work aimed to solve taxonomic ambiguity and nomenclatural crisis for Malesian *Stichorkis*.

**KEY WORDS:** Malaxideae, new combinations, Orchidaceae, Philippines, plant Taxonomy, tropical botany

**Introduction.** The orchid genus *Stichorkis* Thouars (nom. & typ. cons.) is represented by approximately 60 species distributed from the Comoro Islands, Mauritius, Reunion to Sri Lanka, India, through Malesia to Fiji with the centre of diversity in New Guinea where 23 species are recorded (Naive *et al.* 2019). In the process of examining all types of orchids in Malesia, in preparation for previous and ongoing revision, it became clear that more names than those published by Cootes (2011) need combination in Philippine *Stichorkis*. In this paper, we transfer five taxa from *Cestichis* Thouars ex Pfitzer and one from *Liparis* Rich., two of which had been overlooked. The other four had an incorrect basionym when previously transferred, therefore making the names either invalid or illegitimate (Article 41.6; Turland *et al.* 2018). Thus, the opportunity to emend the nomenclature is taken here. We also use the occasion to lectotypify these names, which is why type data are cited here. Furthermore, nine new combinations from West Malesia and 26 new combinations from East Malesia are proposed.

### NEW COMBINATIONS AND A NEW SYNONYM FROM THE PHILIPPINES

***Stichorkis elmeri* (Ames) Naive & Ormerod, *comb. nov.***  
Basionym: *Cestichis elmeri* Ames, Orchidaceae 1: 10.  
1905.

Synonym: *Liparis elmeri* (Ames) Schltr., Repert. Sp. Nov. Regni Veg., Beih. 1: 210. 1911.

*Disticholiparis elmeri* (Ames) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 178. 2004.

**TYPE:** PHILIPPINES. Luzon: Mt. Santo Tomas, Prov. Benguet, “forming colonies on trees”, 1 July 1904, A.D.E. Elmer 6553 (holotype: AMES00106597!; isotypes: K, US, NY). FIG. 1B.

**DISTRIBUTION:** This Philippine endemic species is only recorded and observed in the provinces of Benguet and Quezon of Luzon island (Pelser *et al.* 2011).

Among the Malaxidinae herbarium specimens, especially at AMES, we found plants preliminarily called *Cestichis elmeri*. The plants are without any doubt representative of the genus *Stichorkis* and is therefore recognized here as a new combination. According to Ames (1905), this species is closely similar to *S. merrillii* (Ames) Naive & Ormerod by having an orbicular-apiculate labellum, non-emarginate anther, and laxer inflorescence. This taxon is not to be confused with *Liparis elmeri* Ames, described in 1912 and renamed *L. dumaguetensis* Ames. The latter is a terrestrial species with convolute leaves, unrelated to the genus *Stichorkis*.

***Stichorkis gibbosa* (Finet) J.J.Wood, Orchids Mount Kinabalu 2: 531. 2011.**

Basionym: *Liparis gibbosa* Finet, Bull. Soc. Bot. France 342. 1908. *Disticholiparis gibbosa* (Finet) Marg. & Szlach., Orchidee (Hamburg) 55: 178, 2004.

**TYPE:** INDONESIA. Java, without locality, Blume s.n. (holotype: P-image!).

*Liparis quadribullata* Schltr., Repert. Spec. Nov. Regni Veg. 10: 29. 1911. TYPE: INDONESIA. Sulawesi, Toli-Toli District, upper Lampasiao River, 150 m, January 1910, Schlechter 20668 (holotype: B, destroyed; isotypes: AMES, K), *syn. nov.*

DISTRIBUTION: Myanmar, Vietnam, Cambodia, Laos, Thailand, Peninsular Malaysia, Sumatra, Java, Borneo, Indonesia, New Guinea, Pacific Islands, Philippines.

*Stichorkis gracilis* (Ames) Naive & Ormerod, *comb. nov.*

Basionym: *Cestichis gracilis* Ames, Orchidaceae 2: 136. 1908.

Synonyms: *Liparis amesiana* Schltr., Repert. Sp. Nov. Regni Veg., Beih. 1: 210. 1911. *Disticholiparis gracilis* (Ames) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 178. 2004. *Stichorkis amesiana* (Schltr.) Cootes, Philipp. Nat. Orch. Sp.: 245. 2011, *nom. illeg.*

TYPE: PHILIPPINES. Luzon, Bataan Prov., Mt. Mariveles, 31 January 1904, *E.B. Copeland* 274 (lectotype, here designated: AMES8217!); isolectotypes: K, US); Rizal Prov., Mt. San Isidro, 10 January 1907, *M. Ramos* 1782 (syntype: AMES-image!); isosyntype: K). FIG. 1C.

DISTRIBUTION: Endemic to the Philippines. Recorded in the provinces of Bataan, Rizal, Mindoro, Bukidnon, and Davao.

Because of the earlier *Liparis gracilis* J.D. Hook. of 1890 (= *L. elegans* Lindl.) and *L. gracilis* Rolfe of 1891 (= *L. gracilenta* Dandy), Schlechter renamed *Cestichis gracilis* Ames as *Liparis amesiana* when he moved the plant to *Liparis*. Since the name *Cestichis gracilis* is the oldest and the epithet is still available, it is the one that must be used when treating the plant in *Stichorkis*. We have chosen *Copeland* 274 as lectotype since this has a copy of the original illustration appended to it by Ames.

*Stichorkis merrillii* (Ames) Naive & Ormerod, *comb. nov.*

Basionym: *Cestichis merrillii* Ames, Orchidaceae 1: 11. 1905.

Synonyms: *Liparis merrillii* (Ames) Schltr., Repert. Sp. Nov. Regni Veg., Beih. 1: 210. 1911. *Disticholiparis merrillii* (Ames) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 178. 2004.

TYPE: PHILIPPINES, Luzon, Bataan Prov., Mt. Mariveles, 1200 m, 1 January 1905, *E.D. Merrill* 3736 (holotype: AMES00106604!; isotype: US 00093468). FIG. 1D.

DISTRIBUTION: Endemic to the Philippines. Recorded in the provinces of Bataan, Ifugao, Mountain Province, Nueva Ecija, Nueva Vizcaya, Quezon, Rizal, Mindoro, Leyte, Misamis, Zamboanga.

Though Ames (1905) listed two collections when he published this species, he implied in his notes that Merrill 3736 was the type, and that H.N. Whitford 317 (AMES) was a second collection, i.e. a paratype. Jim Cootes transferred this taxon to *Stichorkis* in 2011, but unfortunately cited the incorrect basionym (*Liparis merrillii*), thus making the proposal invalid.

*Stichorkis nutans* (Ames) Naive & Ormerod, *comb. nov.*

Basionym: *Cestichis nutans* Ames, Philipp. J. Sci., C 4: 597. 1909.

Synonym: *Liparis nutans* (Ames) Ames, Orchidaceae 5: 81. 1915.

TYPES: PHILIPPINES. Mindanao, Lake Lanao, Camp Keithley, May 1907, *M.S. Clemens* s.n. (lectotype, here designated: AMES00106605!); Surigao Prov., 6 April 1906, *P.H. Bolster* 289 (syntype: AMES-image!); Palawan, Mt. Victoria, March 1906, *F.W. Foxworthy* s.n. (= BS 638) (syntype: AMES-image!). FIG. 1E.

DISTRIBUTION: Endemic to the Philippines. Recorded in the provinces of Palawan, Agusan, Bukidnon, Lanao, Misamis Oriental, Surigao.

Like *S. merrillii* above this taxon had been transferred to *Stichorkis* but by incorrectly citing the later name in *Liparis*, making the proposal invalid. This species closely resembles *S. davidlohmanii* (Fig. 1A), however, it differs significantly in having a pyriform pseudobulb (vs. obovoid pseudobulb) and cuneate, non-canaliculate, conduplicate labellum (vs. obovate, canaliculate, non-conduplicate labellum).

*Stichorkis philippinensis* (Ames) Naive & Ormerod, *comb. nov.*

Basionym: *Cestichis philippinensis* Ames, Orchidaceae 1: 7. 1905.

Synonym: *Liparis philippinensis* (Ames) Schltr., Repert. Sp. Nov. Regni Veg., Beih. 1: 210. 1904.  
*Disticholiparis philippinensis* (Ames) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 178. 2004.

**TYPES:** PHILIPPINES, Luzon, Bataan Prov., Mt. Mariveles, 25 May 1904, T.E. Borden 799 (lectotype, here designated: AMES5966!; isolectotype: US-image!); Mt. Mariveles, 8 August 1904, E.D. Merrill 3856 (syntype: AMES!; isosyntypes: K-image!, NY-image!); Mt. Mariveles, 9 August 1904, T.E. Borden 1597 (syntype: AMES-image!). FIG. 1F.

**DISTRIBUTION:** Endemic to the Philippines. Recorded in the provinces of Abra, Bataan, Benguet, Cagayan, Laguna, Mountain Province, Nueva Vizcaya, Pampanga, Rizal, Mindoro, Panay, Leyte, Negros, Agusan, Bukidnon, Cotabato.

Again, as in some of the above names, the incorrect basionym was cited when transferring this taxon to *Stichorkis*, rendering the combination invalid.

***Stichorkis propinqua* (Ames) Naive & Ormerod, comb. nov.**

Basionym: *Liparis propinqua* Ames, Orchidaceae 7: 110. 1922

Synonym: *Disticholiparis propinqua* (Ames) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 179. 2004.

**TYPE:** PHILIPPINES, Bancalan Island, sea level, 14 October 1916, C.M. Weber 011 (holotype: AMES00100960!; isotypes: K, NY, S, SING!, US).

**DISTRIBUTION:** Endemic to the Philippines. Recorded in the provinces of Bancalan Island, Davao, Laguna, Mindoro, Palawan, Quezon and Rizal.

#### NEW COMBINATIONS AND A NEW SYNONYM FROM WEST MALESIAN TAXA

***Stichorkis anopheles* (J.J.Wood) Naive & Ormerod, comb. nov.**

Basionym: *Liparis anopheles* J.J.Wood, Nord. J. Bot. 11, 1: 85. 1991.

Synonym: *Disticholiparis anopheles* (J.J.Wood) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 176. 2004.

**TYPE:** MALAYSIA. Sabah, Tambunan District, Mt. Trus Madi, above Kidukarok, 1560 m, 15 June 1988, Surat in J.J. wood 871 (holotype: K).

**DISTRIBUTION:** Malaysia (Sabah).

***Stichorkis araneola* (Ridl.) Naive & Ormerod, comb. nov.**

Basionym: *Liparis araneola* Ridl., J. Linn. Soc., Bot. 31: 265. 1896.

Synonym: *Disticholiparis araneola* (Ridl.) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 176. 2004.

**TYPE:** INDONESIA. Kalimantan, Pontianak, cult. Bot. Gard. Singapore s.n. (holotype: SING!).

**DISTRIBUTION:** Indonesia (Kalimantan).

***Stichorkis bibullata* (J.J.Sm.) Naive & Ormerod, comb. nov.**

Basionym: *Liparis bibullata* J.J.Sm., Bull. Jard. Bot. Buitenzorg, sér. 3, 9: 143. 1927.

Synonym: *Disticholiparis bibullata* (J.J.Sm.) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 176. 2004.

**TYPE:** SUMATRA. Aceh, Gajo Loees, Leg. Van Daalen, cult. Hort. Bogor 200 (holotype: BO).

**DISTRIBUTION:** Indonesia (Sumatra)

***Stichorkis biglobulifera* (J.J.Sm.) Naive & Ormerod, comb. nov.**

Basionym: *Liparis biglobulifera* J.J.Sm., Bull. Jard. Bot. Buitenzorg, sér. 3, 9: 143, 1927.

Synonym: *Disticholiparis biglobulifera* (J.J.Sm.) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 176. 2004.

**TYPE:** SUMATRA. Gunung Singgalang, 1900 m, Leg. Groeneveldt, cult. Hort. Jacobson 1322 (holotype: BO).

**DISTRIBUTION:** Indonesia (Sumatra).

***Stichorkis kemulensis* (J.J.Sm.) Naive & Ormerod, comb. nov.**

Basionym: *Liparis kemulensis* J.J.Sm., Bull. Jard. Bot. Buitenzorg, sér. 3, 12: 149. 1932.

Synonym: *Liparis amesiana* J.J.Sm., Bull. Jard. Bot. Buitenzorg, sér. 3, 11: 124. 1931 nom. illeg. (non Schltr. 1911).

**TYPE:** INDONESIA. Kalimantan, West Koetai, Gunung Kemoel, 1500 m, 15 October 1925, Endert 4167 (holotype: L).

**DISTRIBUTION:** Indonesia (Kalimantan).

***Stichorkis kerintjiensis* (J.J.Sm.) Naive & Ormerod, comb. nov.**

Basionym: *Liparis kerintjiensis* J.J.Sm., Bull. Jard. Bot. Buitenzorg, sér. 3, 10: 50. 1928.

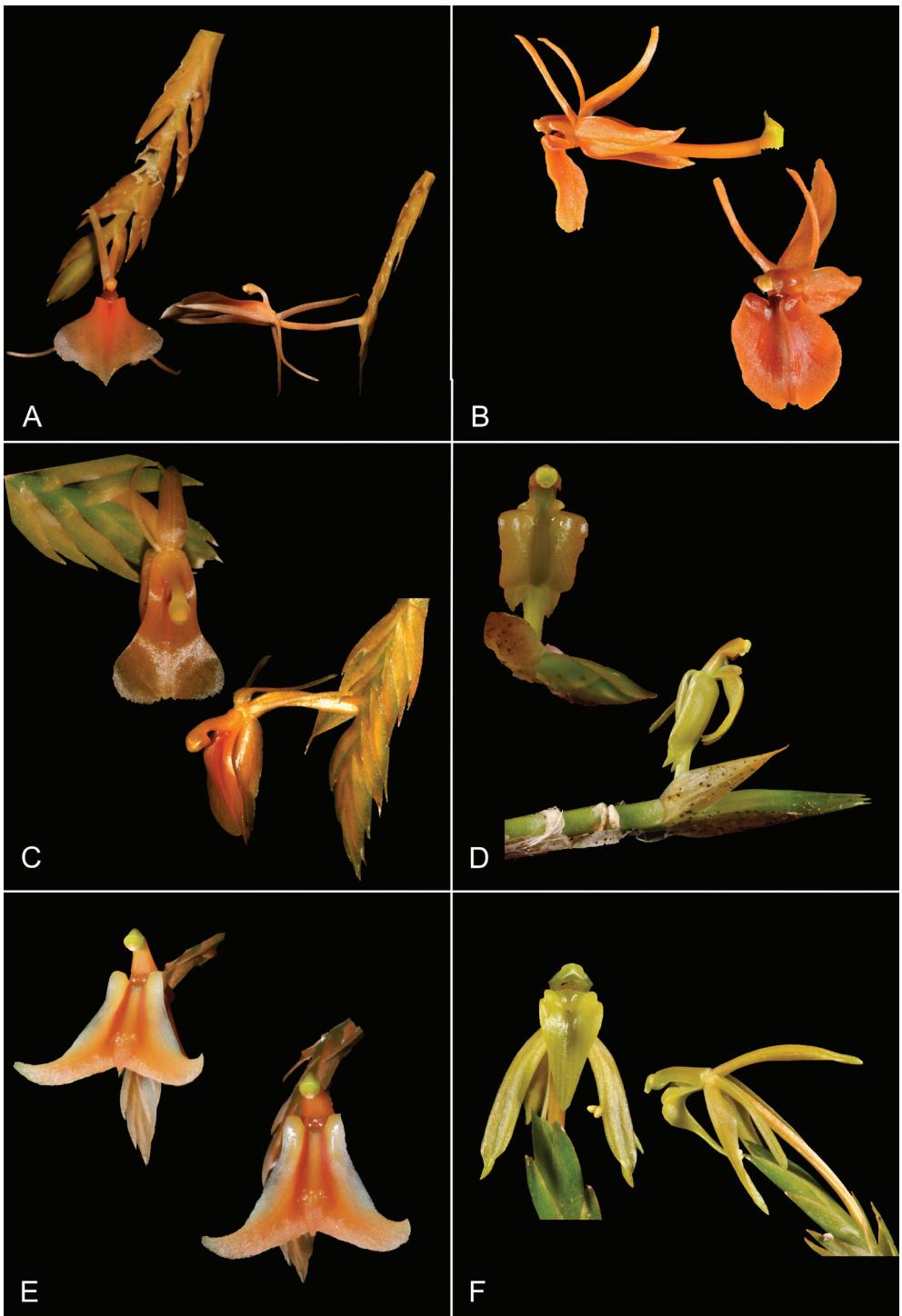


FIGURE 1. Selected Philippine *Stichorkis* species **A.** *S. davidlohmanii* **B.** *S. elmeri* **C.** *S. gracilis* **D.** *S. merrillii* **E.** *S. nutans* **F.** *S. philippinensis*. Photographs by: M. A. K. Naive (A, E), Ravan Schneider (C), Pieter Pelser & Julie Barcelona (B, D, F).

Synonym: *Disticholiparis kerintjiensis* (J.J.Sm.) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 178. 2004.

**TYPES:** INDONESIA. Sumatra, Gunung Kerintji, 1200 m, 8 March 1920, *Bünnemeijer* 8600 (syntype: BO); Gunung Kerintji, 1700 m, 16 March 1920, *Bünnemeijer* 8911 (syntype: BO; isosyntypes: AMES!, K, L); Gunung Kerintji, 1200 m, 17 March 1920, *Bünnemeijer* 8955 (syntype: BO; isosyntype: AMES!).

**DISTRIBUTION:** Indonesia (Sumatra).

*Stichorkis lycopodioides* (J.J.Sm.) Naive & Ormerod, **comb. nov.**

Basionym: *Liparis lycopodioides* J.J.Sm., Bull. Jard. Bot. Buitenzorg, sér. 3, 11: 121. 1931.

**TYPE:** INDONESIA. Kalimantan, West Koetai, Long Petak, 450 m, 20 September 1925, *Endert* 3492 (holotype: L).

**DISTRIBUTION:** Indonesia (Kalimantan).

*Stichorkis mucronata* (Blume) J.J.Wood, Orchids Mount Kinabalu 2: 532. 2011.

Basionym: *Malaxis mucronata* Blume, Bijdr. Fl. Ned. Ind.: 391. 1825. *Liparis mucronata* (Blume) Lindl., Gen. Sp. Orchid. Pl.: 32. 1830. **TYPE:** INDONESIA. Java, mountain of Bantam Province and Buitenzorg Province, *H. Kuhl & J.C. van Hasselt* s.n. (holotype: L-image!).

*Liparis celebica* Schltr., Repert. Sp. Nov. Regni Veg. 10: 28. 1911. **TYPE:** INDONESIA. Sulawesi, Minahassa Peninsula, Mt. Masarang, 1200 m, November 1909, *Schlechter* 20668 (holotype: B, destroyed; isotypes: AMES!, G, K, L, NSW!, S), **syn. nov.**

**DISTRIBUTION:** Borneo, Jawa, Lesser Sunda Is., Sulawesi, and Sumatera.

*Stichorkis togensis* (J.J.Sm.) Naive & Ormerod, **comb. nov.**

Basionym: *Liparis togensis* J.J.Sm., Bull. Jard. Bot. Buitenzorg, sér. 3, 9: 457. 1928.

**TYPE:** INDONESIA. Maluku Prov., Buru, Gunung Toga, 1900 m, February 1912, *Stresemann* 572 (holotype: L).

**DISTRIBUTION:** Indonesia (Maluku Prov., Buru Island).

*Stichorkis trullifera* (Ames & C.Schweinf.) Naive & Ormerod, **comb. nov.**

Basionym: *Liparis trullifera* Ames & C.Schweinf., Contr. Arn. Arb. 8: 26. 1934.

Synonym: *Disticholiparis trullifera* (Ames & C.Schweinf.) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 179. 2004.

**TYPE:** INDONESIA. Sumatra, Kabajakan to Trebet trail, 1065-1525 m, 13 January 1932, *Bangham* 867 (holotype: AMES!; isotype: AMES!).

**DISTRIBUTION:** Indonesia (Sumatra).

#### NEW COMBINATIONS FOR EAST MALESIAN TAXA

*Stichorkis anceps* (Schltr.) Ormerod & Naive, **comb. nov.**

Basionym: *Liparis anceps* Schltr., Bot. Jahrb. Syst. 58: 65. 1922.

**TYPE:** PAPUA NEW GUINEA. Sepik District, Hunstein Peak, 1300 m, March 1913, *Ledermann* 11310 (holotype: B, destroyed).

**DISTRIBUTION:** Papua New Guinea.

*Stichorkis anemophila* (Schltr.) Ormerod & Naive, **comb. nov.**

Basionym: *Liparis anemophila* Schltr., Repert. Sp. Nov. Regni Veg., Beih. 1: 214. 1911.

Synonym: *Disticholiparis anemophila* (Schltr.) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 176. 2004.

**TYPE:** PAPUA NEW GUINEA. Ibo Range, 110 m, December 1917, *Schlechter* 17100 (syntype: B, destroyed; isosyntypes: AMES!, BO, E, G 00354754, GH 00100778, K 000943205, L, MO, NSW!); Bismarck Range, 1400 m, November 1909, *Schlechter* 18592 (syntype: B, destroyed; isosyntypes: G, L, S).

**DISTRIBUTION:** Papua New Guinea.

*Stichorkis apiculata* (Schltr.) Ormerod & Naive, **comb. nov.**

Basionym: *Liparis apiculata* Schltr., Repert. Sp. Nov. Regni Veg., Beih. 1: 216. 1911.

Synonym: *Disticholiparis apiculata* (Schltr.) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 176. 2004.

**TYPE:** PAPUA NEW GUINEA. Kani Range, 1000 m, September 1909, *Schlechter* 16552 (holotype: B, destroyed; isosyntypes: BM, BO, K, L, NSW!, S).

**DISTRIBUTION:** Papua New Guinea.

- Stichorkis arrigens* (J.J.Sm.) Ormerod & Naive, comb. nov.**  
 Basionym: *Liparis arrigens* J.J.Sm., Nova Guinea 18: 25. 1935.  
 TYPE: INDONESIA. Papua Prov., Nassau Mts., Exploration Bivouac, 700 m, October 1926, *Docters van Leeuwen* 10524 (holotype: BO; isotypes: BO, L).  
 DISTRIBUTION: Indonesia (Papua Prov.).
- Stichorkis brunnescens* (Schltr.) Ormerod & Naive, comb. nov.**  
 Basionym: *Liparis brunnescens* Schltr., Repert. Sp. Nov. Regni Veg., Beih. 1: 213. 1911.  
 Synonym: *Disticholiparis brunnescens* (Schltr.) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 176. 2004.  
 TYPE: PAPUA NEW GUINEA. Finisterre Range, 1300 m, January 1909, *Schlechter* 19102 (holotype: B, destroyed).  
 DISTRIBUTION: Papua New Guinea.
- Stichorkis cyclostele* (Schltr.) Ormerod & Naive, comb. nov.**  
 Basionym: *Liparis cyclostele* Schltr., Repert. Sp. Nov. Regni Veg., Beih. 1: 212. 1911.  
 Synonym: *Disticholiparis cyclostele* (Schltr.) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 178. 2004.  
 TYPE: PAPUA NEW GUINEA. Waria River, near Jaduna, 300 m, April 1909, *Schlechter* 19301 (syntype: B, destroyed; isosyntypes: AMES!, BO, G, L, NSW!, S); Waria River, near Pema, May 1909, *Schlechter* s.n. (syntype: B, destroyed)  
 DISTRIBUTION: Papua New Guinea.
- Stichorkis finetiana* (Schltr.) Ormerod & Naive, comb. nov.**  
 Basionym: *Liparis finetiana* Schltr., Repert. Sp. Nov. Regni Veg. 10: 29. 1911.  
 Synonym: *Liparis disticha* auct. non (Thouars) Lindl.: Schltr., Bot. Jahrb. Syst. 39: 60. 1906.  
 TYPE: NEW CALEDONIA. Near Paita, 200 m, October 1902, *Schlechter* 14858 (syntype: B, destroyed; isosyntypes: AMES! 00600518, K! 000943536, P, PR, WRSL); Mt. Iguambi, near Oubatche, 800 m, December 1902, *Schlechter* 15489 (syntype: B, destroyed; isosyntype: P).  
 DISTRIBUTION: New Caledonia; Fiji.
- Stichorkis gautierensis* (J.J.Sm.) Ormerod & Naive, comb. nov.**  
 Basionym: *Liparis gautierensis* J.J.Sm., Repert. Sp. Nov. Regni Veg. 11: 136. 1912.  
 TYPE: INDONESIA. Papua Prov., Gautier River, 700 m, November 1911, *Gjellerup* 875 (holotype: BO; isotype: L).  
 DISTRIBUTION: Indonesia (Papua Prov.).
- Stichorkis geelvinkensis* (J.J.Sm.) Ormerod & Naive, comb. nov.**  
 Basionym: *Liparis geelvinkensis* J.J.Sm., Repert. Sp. Nov. Regni Veg. 12: 395. 1913.  
 Synonym: *Disticholiparis geelvinkensis* (Schltr.) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 178. 2004.  
 TYPE: INDONESIA. Papua Prov., Geelvink Bay, Giriwo River, July 1912, *Janowsky* 100 (holotype: BO; isotype: L).  
 DISTRIBUTION: Indonesia (Papua Prov.).
- Stichorkis gjellerupii* (J.J.Sm.) Ormerod & Naive, comb. nov.**  
 Basionym: *Liparis gjellerupii* J.J.Sm., Repert. Sp. Nov. Regni Veg. 11: 557. 1912.  
 TYPE: INDONESIA. Papua Prov., Gautier Range, 400 m, November 1911, *Gjellerup* 881 (holotype: BO).  
 DISTRIBUTION: Indonesia (Papua Prov.).
- Stichorkis glumacea* (Schltr.) Ormerod & Naive, comb. nov.**  
 Basionym: *Liparis glumacea* Schltr., Repert. Sp. Nov. Regni Veg., Beih. 1: 219. 1911.  
 Synonym: *Disticholiparis glumacea* (Schltr.) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 178. 2004.  
 TYPE: PAPUA NEW GUINEA. Maboro Range, Govidjoa Creek, 1200 m, June 1909, *Schlechter* 19805 (holotype: B, destroyed).  
 DISTRIBUTION: Papua New Guinea.
- Stichorkis govidjoae* (Schltr.) Ormerod & Naive, comb. nov.**  
 Basionym: *Liparis govidjoae* Schltr., Repert. Sp. Nov. Regni Veg., Beih. 1: 218. 1911.  
 Synonym: *Disticholiparis govidjoae* (Schltr.) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 178. 2004.  
 TYPE: PAPUA NEW GUINEA. Govidjoa Creek,

1200 m, June 1909, Schlechter 19083 (holotype: B, destroyed).

DISTRIBUTION: Papua New Guinea.

*Stichorkis graciliscapa* (Schltr.) Ormerod & Naive, *comb. nov.*

Basionym: *Liparis graciliscapa* Schltr., Repert. Sp. Nov. Regni Veg., Beih. 1: 211. 1911.

Synonym: *Disticholiparis graciliscapa* (Schltr.) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 178. 2004.

TYPE: PAPUA NEW GUINEA. Djamu Gorge, 450 m, November 1907, Schlechter 16807 (holotype: B, destroyed; isotypes: L, NSW!, S).

DISTRIBUTION: Papua New Guinea.

*Stichorkis inamoena* (Schltr.) Ormerod & Naive, *comb. nov.*

Basionym: *Liparis inamoena* Schltr., Repert. Sp. Nov. Regni Veg., Beih. 1: 216. 1911.

Synonym: *Disticholiparis inamoena* (Schltr.) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 178. 2004.

TYPE: PAPUA NEW GUINEA. Bismarck Range, 1600 m, November 1908, Schlechter 18784 (holotype: B, destroyed).

DISTRIBUTION: Papua New Guinea.

*Stichorkis janowskyi* (J.J.Sm.) Ormerod & Naive, *comb. nov.*

Basionym: *Liparis janowskyi* J.J.Sm., Repert. Sp. Nov. Regni Veg. 12: 395. 1913 (as 'janowskii', corrected by Smith in Nova Guinea 12(3): 230. 1915).

TYPE: INDONESIA. Papua Prov., Giriwo River, July 1912, Janowsky 210 (holotype: BO).

DISTRIBUTION: Indonesia (Papua Prov.).

*Stichorkis lamproglossa* (Schltr.) Ormerod & Naive, *comb. nov.*

Basionym: *Liparis lamproglossa* Schltr., Repert. Sp. Nov. Regni Veg., Beih. 1: 220. 1911.

Synonym: *Disticholiparis lamproglossa* (Schltr.) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 178. 2004.

TYPE: PAPUA NEW GUINEA. Finisterre Range, 1100 m, November 1908, Schlechter 18625 (holotype: B, destroyed; isotypes: AMES!, BO, G, L, NSW!, S).

DISTRIBUTION: Papua New Guinea.

*Stichorkis loliacea* (Ridl.) Ormerod & Naive, *comb. nov.*

Basionym: *Liparis loliacea* Ridl., Trans. Linn. Soc. s.2, Bot. 9: 164. 1916.

TYPE: INDONESIA. Papua Prov., W bank of Tsingarong River, Camp 6A, 945 m, January 1913, Kloss s.n. (holotype: BM).

DISTRIBUTION: Indonesia (Papua Prov.).

*Stichorkis miniata* (Schltr.) Ormerod & Naive, *comb. nov.*

Basionym: *Liparis miniata* Schltr., Repert. Sp. Nov. Regni Veg., Beih. 1: 218. 1911.

Synonym: *Disticholiparis miniata* (Schltr.) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 178. 2004.

TYPE: PAPUA NEW GUINEA. Govidjoa Creek, 1000 m, June 1909, Schlechter 19838 (holotype: B, destroyed).

DISTRIBUTION: Papua New Guinea.

*Stichorkis murkelensis* (J.J.Sm.) Naive & Ormerod, *comb. nov.*

Basionym: *Liparis murkelensis* J.J.Sm., Bull. Jard. Bot. Buitenzorg, sér. 3, 10: 127. 1928.

TYPE: INDONESIA. Maluku Prov., Seram, Gunung Moerkele, 2000-2500 m, 1 July 1918, Rutten 1483 (syntype: L); Gunung Moerkele, 2000-2500m, 1 July 1918, Rutten 1491 (syntype: L).

DISTRIBUTION: Indonesia (Maluku Prov., Seram Island).

*Stichorkis nebuligera* (Schltr.) Ormerod & Naive, *comb. nov.*

Basionym: *Liparis nebuligera* Schltr., Repert. Sp. Nov. Regni Veg., Beih. 1: 212. 1911.

Synonym: *Disticholiparis nebuligera* (Schltr.) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 178. 2004.

TYPE: PAPUA NEW GUINEA. Torricelli Range, near Akur, 700 m, September 1909, Schlechter 20112 (syntype: B!); Kani Range, 1000 m, December 1907, Schlechter 16961 (syntype: B, destroyed; isosyntypes: AMES!, BO, E, G, GH, K, L, MO, NSW, S); Maboro Range, 1300 m, May 1909, Schlechter 19514 (syntype: B, destroyed).

DISTRIBUTION: Papua New Guinea.

*Stichorkis ochrantha* (Schltr.) Ormerod & Naive, *comb. nov.*

Basionym: *Liparis ochrantha* Schltr., Repert. Sp. Nov. Regni Veg., Beih. 1: 214. 1911.

Synonym: *Disticholiparis ochrantha* (Schltr.) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 178. 2004.

TYPE: PAPUA NEW GUINEA. Minjem Valley, Kelel, 400 m, July 1907, Schlechter 16308 (syntype: Bl.; isosyntypes: AMES!, BM, G, K, L, NSW, S); near Ambo, 500 m, September 1908, Schlechter 18260 (syntype: B, destroyed; isosyntypes: AMES!, BM, BO, E, GM, K, L, NSW!, S).

DISTRIBUTION: Papua New Guinea.

***Stichorkis pandaneti* (J.J.Sm.) Ormerod & Naive, comb. nov.**

Basionym: *Liparis pandaneti* J.J.Sm., Nova Guin. 12: 16. 1913.

TYPE: INDONESIA. Papua Prov., Noord River, September 1907, Versteeg 1743 (syntype: BO); same area, September 1909, von Roemer 156 (syntype: BO); same area, October 1911, von Roemer 440 (syntype: BO).

DISTRIBUTION: Indonesia (Papua Prov.).

***Stichorkis pseudodisticha* (Schltr.) Ormerod & Naive, comb. nov.**

Basionym: *Liparis pseudodisticha* Schltr., in Schum. & Laut., Fl. Deutsch. Schutzgeb. Südsee, Nachtr. 2: 106. 1905.

Synonym: *Disticholiparis pseudodisticha* (Schltr.) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 179. 2004.

TYPE: PAPUA NEW GUINEA. Bismarck Range, 1200 m, January 1902, Schlechter 14064 (holotype: B, destroyed; isotypes: BM, BRI, K, P).

DISTRIBUTION: Indonesia (Papua Prov.); Papua New Guinea.

***Stichorkis trachyglossa* (Schltr.) Ormerod & Naive, comb. nov.**

Basionym: *Liparis trachyglossa* Schltr., Repert. Sp. Nov. Regni Veg., Beih. 1: 217. 1911.

Synonym: *Disticholiparis trachyglossa* (Schltr.) Marg. & Szlach., Orchidee (Hamburg) 55, 2: 179. 2004.

TYPE: PAPUA NEW GUINEA. Torricelli Range, 800 m, September 1909, Schlechter 20338 (holotype: B, destroyed; isotypes: BM, BO, K, L, NSW!, S).

DISTRIBUTION: Papua New Guinea.

***Stichorkis triticea* (Ridl.) Ormerod & Naive, comb. nov.**

Basionym: *Liparis triticea* Ridl., Trans. Linn. Soc. s.2, Bot. 9: 164. 1916.

TYPE: INDONESIA. Papua Prov., Camp 1, 215 m, November/December 1912, Kloss s.n. (syntype: BM); W bank of Tsingarong River, Camp 6A, 945 m, 15 January 1913, Kloss s.n. (syntype: BM).

DISTRIBUTION: Indonesia (Papua Prov.).

***Stichorkis togensis* (J.J.Sm.) Naive & Ormerod, comb. nov.**

Basionym: *Liparis togensis* J.J.Sm., Bull. Jard. Bot. Buitenzorg, sér. 3, 9: 457. 1928.

TYPE: INDONESIA. Maluku Prov., Buru, Gunung Toga, 1900 m, February 1912, Stresemann 572 (holotype: L).

DISTRIBUTION: Indonesia (Maluku Prov., Buru Island).

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