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Malaxidinae index nominum – *Pseudoliparis* section *Oistochilus* (Orchidaceae)

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Zusammenfassung

Für *Pseudoliparis* (FINET) SZLACH. section *Oistochilus* (SCHLTR.) MARG., (Orchidaceae) wird eine Liste der publizierten Namen und ihrer Synonyme präsentiert. Diese gibt auch die Typusbelege und die aktuelle Position der Taxa. Zusätzlich wird ein neues Synonym in der Gattung *Crepidium* festgestellt.

Abstract

Following a brief description of the genus *Pseudoliparis* FINET *emend.* SZLACH. & MARG. and of section *Oistochilus* (SCHLTR.) MARG., a list of published taxa is given including complete citations and types.. Additionally, one new synonym within genus *Crepidium* is proposed.

Key-words: Orchidaceae, Malaxidinae, *Crepidium*, *Malaxis*, *Microstylis*, *Pseudoliparis*, section *Oistochilus*, taxonomy.

Introduction

Specimens of *Pseudoliparis* are rather poorly known and badly represented in herbaria or liquid collections. The plants are very rarely cultivated, too. However *Pseudoliparis* is a since long time known genus (FINET 1907), but approximately 1/5 of the species have been described recently. Some more new species can be expected in future. The centre of biodiversity of the genus is in rather badly documented areas, e.g. New Guinea.

Species of *Pseudoliparis* occur only in South East Asia, from Taiwan, Macronesia (particularly New Guinea) to Micronesia (e.g. Solomon Archipelago).

Representatives of section *Oistochilus* characterize by absence of any appendages or convexity at the dorsal portion of gynostemium.

Results and Discussion

FINET described genus *Pseudoliparis* in 1907, but later the taxon was commonly treated only as section within genera *Microstylis* (NUTT.) EATON or *Malaxis* SOL. ex SW. (J.J. SMITH 1909, SCHLECHTER 1914, SEIDENFADEN, 1978-79 etc.) or as subgenus in genus *Crepidium* BL. (SZLACHETKO 1995). *Pseudoliparis* was restituated and redefined again

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as separate genus in 1999 (SZLACHETKO & MARGOŃSKA). Recently the infrageneric division and taxonomic revision of the genus has been investigated (MARGOŃSKA 2003a, 2003b, 2005, in prep.).

Pseudoliparis are defined by the following characters: small plants, with creeping rhizome and erect or ascending stems. Inflorescence at least slightly elongated with age, with many, relatively small and somewhat fleshy flowers. Petals often broad or sometimes narrow. The most characteristic features for the genus are: unlobed or only obscurely 3-lobed lip, always with entire margins, auriculate, flat (without basal cavity), ornamented at central portion by parallel calli, lamellae or only obscure convexity; elongate, dorsiventrally flattened, slightly arched gynostemium; erect, linear to ovate anther, firmly fused with the column apex, with a basally thickened connective; 4, narrowly to broadly clavate pollinia, with tiny, apical caudicles; distinct, ribbon-, horn-, or wing-like staminodes, often with minutely papillose surface, usually dark-coloured and distinctly folded back from the anther; erect, narrowly triangular to triangular rostellum, acute to apiculate at apex and adnate apically to the anther apex; and small, ovate, deeply concave stigma (SZLACHETKO & MARGOŃSKA 2002; MARGOŃSKA 2003a; completed).

Most of the species of the genus belong to the type-section and can be easily recognized by horn-like appendages or explicit convexity along the dorsal part of column (MARGOŃSKA 2005, in prep.), which is absent at all in section *Oistochilus* (MARGOŃSKA 2003).

Most species of section *Oistochilus* have lip sagittate in outline, with mid-lobe distinctly separated from lateral lobes by shallow indentation. Only few species have horseshoe-shaped to nearly cordate lip, with mid-lobe not distinctly separate from lateral lobes, grading turn into lateral lobes (MARGOŃSKA, 2003b). Within the section can also be recognized two forms of gynostemium: 1) distinctly papillose, with staminodes elongated, rostellum distinctly shorter than staminodes and narrow anther (the most species, slightly connected to representatives of type-section), 2) very minutely papillose, with staminodes abbreviated, shorter than rostellum and relatively broad anther (MARGOŃSKA 2003b).

The names in the index are given as:

bold Italic – current name,

Italic – published name;

≡ homotypic taxon (based on the same type-specimens),

= heterotypic taxon (based on different type-collections); following – the citation is given, where the taxon was put into this synonymy first time.

Illegitimate and misunderstood names ("sensu") are given in normal letters. Herbaria are given with their abbreviations in Index Herbariorum.

Pseudoliparis FINET, Bull. Soc. Bot. France 54: 536 (1907) emend. SZLACH. & MARG., *Adansonia* ser.3, 21 (2): 275-282 (1999)

≡ ***Crepidium*** BL. emend. SZLACH. subgenus ***Pseudoliparis*** (FINET) SZLACH., *Fragm. Flor. Geobot.*, Suppl. 3: 123 (1995)

≡ *Malaxis* SOL. ex SW. section *Pseudoliparis* (FINET) SEIDENF., *Bot. Tid.* 73, 2: 97-104 (1978-79).

≡ *Microstylis* (NUTT.) EATON section *Pseudoliparis* (Finet) J. J. Sm., *Bull. Dept. Agri. Ind. Neerl.* 22: 22. (1909).

Note: SEIDENFADEN well understood the separating characters of the species and transferred section *Pseudoliparis* into genus *Malaxis*. Although, unfortunately, at first, he included to this section *Malaxis crenulata* (RIDL.) KUNTZE, which later, correctly and with his acceptance found place within genus *Seidenfia* (*Seidenfia crenulata* (RIDL.) SZLACH., 1995; MARGOŃSKA, in press).

Pseudoliparis (FINET) SZLACH. section *Oistochilus* (SCHLTR.) MARG., Ann. Bot. Fen. 40(1): 66. 2003.

≡ *Microstylis* (NUTT.) EATON section *Oistochilus* SCHLTR., Repert. Spec. Nov. Regni Veg., Beih. 1: 120. (1911) 1914.

≡ *Malaxis* SOL. ex SW., section *Oistochilus* (SCHLTR.) KORES, Allertonia 5(1): 46. 1989. Lectotype species: *Pseudoliparis graminifolia* (SCHLTR.) SZLACH. & MARG. – MARGOŃSKA (2003: 66).

Pseudoliparis atro-brachiata (RIDL.) MARG., Ann. Bot. Fen. 40(1): 63 (2003)

≡ *Microstylis atro-brachiata* RIDL., Trans. Linn. Soc., Bot. 9 (1): 160 (1916)

≡ *Malaxis atrobrachiata* (RIDL.) HUNT., Kew Bull. 24: 78 (1970)

≡ *Crepidium atrobrachiatum* (RIDL.) SZLACH., Fragm. Flor. Geobot., Suppl. 3: 124 (1995).

Type: Indonesia, Dutch New Guinea, Irian Jaya, Camp IVA, 13.01.1913., C. Boden-Kloss s.n. [holotype: BM-000082906!]

Pseudoliparis graminifolia (SCHLTR.) SZLACH. & MARG., Adansonia ser.3, 21 (2): 277 (1999)

≡ *Microstylis graminifolia* SCHLTR., Repert. Spec. Nov. Regni Veg., Beih. 1 (1911): 121 (1914)

≡ *Malaxis graminifolia* (SCHLTR.) HUNT, Kew Bull. 24: 80 (1970)

≡ *Crepidium graminifolium* (SCHLTR.) SZLACH., Fragm. Flor. Geobot., Suppl. 3: 126 (1995).

Type: Papua New Guinea, Kaiser-Wilhelms-Land, Mount Gomadjidi, on Waria River, 05.1909., Schlechter 19352 [holotype: B+, lectotype (MARGOŃSKA, 2005): L-0063692!, isotypes: AMES-101651!, BO].

Pseudoliparis hippocrepiformis (J.J.WOOD) MARG., Ann. Bot. Fen. 40 (4): 357-372 (2003)

≡ *Malaxis hippocrepiformis* J.J.WOOD, Orchid Rev. 89 (1053): 209 (1981)

≡ *Crepidium hippocrepiformis* (J.J.WOOD) MARG., Pol. Bot. J. 46 (1): 69 (2001).

Type: Papua New Guinea, Eastern Highlands Prov., Kainantu Sub-prov., above Habi'ina Villages, slopes of Mt. Piora, 7.09.1975., Sands, Pattison & J.J. Wood 1740 [holotype: K!, isotype: K-spir.coll.!].

Pseudoliparis moluccana (J.J.SM.) MARG., Ann. Bot. Fen. 40(1): 63 (2003)

≡ *Microstylis moluccana* J.J.SM., Bull. Inst. Bot. Buitenz. 7: 2 (1900)

≡ *Malaxis moluccana* (J.J.SM.) AMES & C. SCHWEINF., Orchidaceae 6: 73 (1920).

Types: Indonesia, Moluccas Archipelago, Ambon Island, J.J.Smith s.n., cult.in Hort. Bog. s.n. [syntype: BO]; Ternate Island, J.J.Smith s.n., cult. in Hort. Bog. s.n. [syntype: BO, isotype: L-0063823!].

Note: Despite clear differences, particularly complete absent of any appendage at gynostemium column, the species is often erroneously determined as e.g. *Malaxis ramosii* AMES (TSAN-PIO LIN, 1970) or *Malaxis latipetala* (J.J.SM.) MARG. & SZLACH. (e.g. LEWIS & CRIBB, 1991).

= *Microstylis moluccana* J.J.SM., var. *glaucescens* J.J.SM., unpubl. (name at specimen)
Specimen: Indonesia, s. prec. loc., s.coll. & n., cult. in Hort. Bog. s.n. [BO, BO spir.
coll.].

Pseudoliparis raciborskii SZLACH. & MARG., *Adansonia* ser.3, 21(2): 279-282 (1999).
Type: Indonesia, Dutch New Guinea, Irian Jaya, Vogelkop Peninsula, W Kebar Valley,
10.09.1961., van Royen & Sleumer 7306 [holotype: L!].

Paratype: Papua New Guinea, D'entre Casteaux Islans, Normanby Island, mountains
behind Waikaiuna Bay, 23.04.1956., Brass 25567 [L 957 295-044!].

Pseudoliparis wappeana (J.J.SM.) MARG., *Ann. Bot. Fen.* 40(1): 64 (2002)

≡ *Microstylis wappeana* J.J.SM., *Meded. Herb. Leid.* 23: 3 (1915)

≡ *Malaxis wappeana* (J.J.SM.) HUNT, *Kew Bull.* 24: 85 (1970)

≡ *Crepidium wappeanum* (J.J.SM.) SZLACH., *Fragm. Flor. Geobot., Suppl.* 3: 133
(1995).

Type: Indonesia, Dutch New Guinea, Irian Jaya, Vogelkop Peninsula, Geelvink-Bai,
Jabi Mountain, 26.05.1913., Janowski 317 [holotype: L 915 12-26 / 0063644!, iso-
type: BO, BO-spir.coll.].

Pseudoliparis van-royenii SZLACH. & MARG., *Adansonia* ser.3, 21(2): 281-282 (1999).

Type: Indonesia, Dutch New Guinea, Irian Jaya, Vogelkop Peninsula, Aifat River
Valley, 6.10.1961., van Royen & Sleumer 7505 [holotype: L!].

Pseudoliparis zippelii (J.J.SM.) MARG., *Ann. Bot. Fen.* 40(1): 64 (2003)

≡ *Microstylis moluccana* J.J.SM. var. *sagittata* J.J.SM., *Nova Guinea* 8: 32 (1909)

≡ *Microstylis zippelii* J.J.SM., *Bull. Dep. Agric. Indes Neerl.* 39: 17 (1910)

≡ *Malaxis moluccana* (J.J.SM.) HUNT var. *sagittata* (J.J.SM.) AMES & C. SCHWEINF.,
Orchidaceae 6: 73 (1920)

≡ *Malaxis zippelii* (J.J.SM.) HUNT, *Kew Bull.* 24: 86 (1970)

≡ *Crepidium zippelii* (J.J.SM.) SZLACH., *Fragm. Flor. Geobot., Suppl.* 3: 133 (1995).

Types: Indonesia, Dutch New Guinea, Irian Jaya, Fundortsangabe, Zippelius s.n. [syn-
type: L 904 85-190!]; B. Sijep, Wichmann's Expedition (1903), Djibdja 140 [not
located]; Noord River near Mundung and Reiger Rivers, 06.1907., Versteeg 1207
[syntype: BO, isotypes: BO-spir.coll, L 909 502-87 / 0063645!].

= *Microstylis platycheila* sensu KRAENZL., in SCHUM. et LAUT., *Fl. Dtsch. Schutzg.*
Suds., 24 (1901). – SCHLECHTER 1914: 121.

Note: similar in species name *Microstylis platychila* RCHB.f., which based on comparison of
protologue and type-collection, has to be treated as cleistogamic form and synonym of
Crepidium latisepalum (ROLFE) CLEM.&JONES.

Crepidium latisepalum (ROLFE) CLEM.&JONES. *Lasianthera* 1: 39. 1996.

≡ *Microstylis platychila* RCHB.F., *Seem. Fl. Vit.* 302. 1868. **syn. n.**

≡ *Malaxis platycheila* (RCHB.F.) KUNTZE, *Rev. Gen. Pl.* 2: 673 (1891)

≡ *Crepidium platychilum* (RCHB.F) CLEM.&JONES. *Lasianthera* 1: 39. 1996.

Type: Fiji Island, Taveuni and Kadavu, Somosomo, 1860., Seemann 590 [holotype-W-
40910! Photo at AMES!, isotype: AMES101741!, BM000088136!, K!, P].

Notes: KUNTZE (1891: 673) probably by mistake, used wrong form of species epithet "platycheila"
instead correct one for REICHENBACH f. taxon "platychila"

Index of referable names:

- Crepidium* sect. *Pseudoliparis* ≡ ***Pseudoliparis***
Crepidium atrobrachiatum ≡ ***Pseudoliparis atro-brachiata***
Crepidium graminifolium ≡ ***Pseudoliparis graminifolia***
Crepidium hippocrepiformis ≡ ***Pseudoliparis hippocrepiformis***
Crepidium platycheilum (RCHB.F.) CLEM.&JONES = ***Crepidium latisepalum***
Crepidium wappeanum ≡ ***Pseudoliparis wappeana***
Crepidium zippelii ≡ ***Pseudoliparis zippelii***
Malaxis atrobrachiata ≡ ***Pseudoliparis atro-brachiata***
Malaxis graminifolia ≡ ***Pseudoliparis graminifolia***
Malaxis hippocrepiformis ≡ ***Pseudoliparis hippocrepiformis***
Malaxis moluccana ≡ ***Pseudoliparis moluccana***
Malaxis moluccana var. *sagittata* ≡ ***Pseudoliparis zippelii***
Microstylis platycheila (RCHB.F.) KUNTZE = ***Crepidium latisepalum***
Malaxis wappeana ≡ ***Pseudoliparis wappeana***
Malaxis zippelii ≡ ***Pseudoliparis zippelii***
Malaxis sect. *Oistochilus* ≡ ***Pseudoliparis* sect. *Oistochilus***
Malaxis sect. *Pseudoliparis* ≡ ***Pseudoliparis***
Microstylis atro-brachiata ≡ ***Pseudoliparis atro-brachiata***
Microstylis graminifolia ≡ ***Pseudoliparis graminifolia***
Microstylis moluccana ≡ ***Pseudoliparis moluccana***
Microstylis moluccana var. *glaucescens* ≡ ***Pseudoliparis moluccana***
Microstylis moluccana var. *sagittata* ≡ ***Pseudoliparis zippelii***
Microstylis platycheila sensu KRAENZL. = ***Pseudoliparis zippelii***
Microstylis platycheila RCHB.F. = ***Crepidium latisepalum***
Microstylis wappeana ≡ ***Pseudoliparis wappeana***
Microstylis zippelii ≡ ***Pseudoliparis zippelii***
Microstylis sect. *Oistochilus* ≡ ***Pseudoliparis* sect. *Oistochilus***
Microstylis sect. *Pseudoliparis* ≡ ***Pseudoliparis***
Pseudoliparis
Pseudoliparis* sect. *Oistochilus
Pseudoliparis atrobrachiata
Pseudoliparis graminifolia
Pseudoliparis hippocrepiformis
Pseudoliparis moluccana
Pseudoliparis raciborskii
Pseudoliparis van-royenii
Pseudoliparis wappeana
Pseudoliparis zippelii

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