

Ann. Naturhist. Mus. Wien	109 B	203 - 206	Wien, März 2008
---------------------------	-------	-----------	-----------------

Malaxidinae index nominum – *Tamayorkis* SZLACH. (Orchidaceae)

H. B. Margońska*

Zusammenfassung

Für die Gattung *Tamayorkis* SZLACH. (Orchidaceae) wird eine Liste der publizierten Namen und ihrer Synonyme präsentiert. Diese gibt auch die aktuelle Position der Taxa.

Abstract

For *Tamayorkis* SZLACH. (Orchidaceae) a taxonomic checklist is presented. This list gives all published names of this genus with their synonyms and the actual position of these taxa.

Key-words: Orchidaceae, Malaxidinae, *Achroanthes*, *Malaxis*, *Microstylis*, *Tamayorkis*, taxonomy.

Introduction

The Malaxidinae index nominalis series presents data gathered at different scientific institutions and libraries, using diverse kinds of materials: herbarium sheets, liquid collections (always referring to the type-specimens), living plants, iconography, bibliography (original description), etc. To each taxon are added information about its author(s), place of first publication and annotation about their actual position. This part of the series treats the genus *Tamayorkis* SZLACH.

Results and Discussion

Tamayorkis was proposed by SZLACHETKO (1995) with only sole species - *T. platyglossa* (basionym: *Microstylis platyglossa* ROB. & GREENM.). Later two other species: *T. hintonii* and *wendetii* have been transferred into this genus (R. GONZALES & SZLACHETKO 1998). Recently, on base of the comparison of type-specimens and original descriptions the status was reviewed and new species recognized (MARGOŃSKA 2006). Specimens gathered by Schmitz in Mexico, representing plants with several specific characters, particularly different form their lip leaded to the description of *T. reichenbachii* MARG. (MARGOŃSKA 2006). In result, nowadays the genus contains 5 species.

Representatives of *Tamayorkis* are characterized by very homogeneous habit: underground pseudobulbs, single leaf, positioned about half of plant length, elongated inflorescence with many small flowers. Very important is the form of flower, particularly shape and character of lip, e.g.: its basal structures, presence and arrangement of pilosity (R. GONZALES & SZLACHETKO 1998, MARGOŃSKA 2006).

Hanna B. Margońska, Department of Plant Taxonomy and Nature Conservation, Gdańsk University,
Al. Legionów 9, PL -80-441 Gdańsk, Poland, e-mail: dokhbm@univ.gda.pl

The genus can be easily recognized also by specific morphology of generative structures: gynostemium short, erect and slightly sigmoid, with column longer than anther; staminodes positioned near stigma, distinctly developed, fan-shaped; anther erect, transversally elliptic, dorsiventrally flattened, with locules opening almost apically; connective wide, thin, concaved, almost flat, forming characteristic, prominent roof above locules; pollinia 4, in pairs, apically distinctly concaved, nearly unique in shape and size; caudiculae absent; clinandrium apical and spacious; stigma ventral, ovate, deeply concaved; rostellum erect, more or less pressed between locules; viscidia 2, small, separated, membranous, semiliquid (SZLACHETKO, MARGOŃSKA 2002, changed).

Representatives of *Tamayorkis* are occurring commonly at higher elevation up to 3.700 m in North and Central Americas – from southern states of United States to Mexico and Guatemala.

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.

***Tamayorkis* index nominum**

Tamayorkis SZLACH., Fragm. Flor. Geobot., Suppl. 3: 122 (1995).

Type species: *Tamayorkis ehrenbergii* (RCHB.f.) R.GONZALES & SZLACH.

Tamayorkis ehrenbergii (RCHB.f.) R.GONZALES & SZLACH., Ann. Bot. Fen. 35: 22 (1998).

≡ *Microstylis ehrenbergii* RCHB.f., Linnaea 22: 835 (1849).

≡ *Malaxis ehrenbergii* (RCHB.f.) KUNTZE, Rev. Gen. 2: 673 (1891).

Type: Mexico, Hidalgo, Real del Monte, Ehrenberg s.n. (holotype: W-Rchb.Orch. 40867! left sample and icon, AMES-101638! icon, AMES-101639! icon).

= *Microstylis purpurea* S.WATS., Proc. Am. Acad. 18: 195. 1883. – WILLIAMS 1950: 187.
non *Microstylis purpurea* LINDL. – see note below.

≡ *Malaxis purpurea* (S.WATS.) KUNTZE, Rev. Gen. 2: 673 (1891).

non *Malaxis purpurea* (LINDL.) SEIDENF. – see note below.

≡ *Achroanthes purpurea* (S.WATS.) GREENE, Pittonia 2: 184 (1891).

≡ *Microstylis porphyrea* RIDL., J. Linn. Soc. 24: 320 (1888), nom. nov.

≡ *Malaxis porphyrea* (RIDL.) KUNTZE, Rev. Gen. 2: 673 (1891).

≡ *Achroanthes porphyrea* (RIDL.) WOOTON & STANDLEY, Contrib. US. Nat. Herb. 16: 116 (1913).

Type: USA, Arizona State, Southwestern, Huachuca Mountains, Cochise Co., Tanner's Canion, near forth "Howarth", 07.1882., J.G. & S.P. Lemmon 2881 [holotype: AMES-101744!, iso: W s.n.!, GH-62181!, K! photo of the holotype].

Note: RIDLEY (1888) changed the name of *Microstylis purpurea* S.WATS. into *Microstylis porphyrea* RIDL. because of an older homonym within *Microstylis*: *Microstylis purpurea* LINDL. ≡ *Malaxis purpu-*

- rea* (LINDL.) SEIDENF. ≡ *Crepidium purpureum* (LINDL.) SZLACH., Fragm. Flor. Geobot., Suppl. 3: 131 (1995)]
- = *Microstylis arachnifera* RIDL., J. Linn. Soc., Bot. 24: 320 (1888) – WILLIAMS 1950: 187.
 ≡ *Malaxis arachnifera* (RIDL.) KUNTZE, Rev. Gen. 2: 673. 1891.
 Type: Mexico, Capt. Lyon s.n. (syntype: BM 000088210!); NW Mexico, Sierra Madre, B.C. Seemann 1957 (syntype: BM not found, B, AMES only sample).
- = *Microstylis minutiflora* SCHLTR., Bull. Herb. Boiss. 7: 540 (1899) – AMES in AMES & SCHWEINFURTH 1935: 116.
 ≡ *Malaxis minutiflora* (SCHLTR.) AMES, Proc. Biol. Soc. Wash. 35: 84 (1922).
 Type: Guatemala, Huehuetenango, in planitie inter Todos Los Santos et Chiantla, 3000 m, 09., E. Seler 2347 (holotype: B+, AMES-101716! icon).
- Tamayorkis hintonii* (TODZIA) R. GONZALES & SZLACH.**, Ann. Bot. Fen. 35: 22 (1998).
 ≡ *Malaxis hintonii* TODZIA, Orquidea (Mex.) 13 (1-2): 121-124 (1993).
 Type: Mexico Northeast, Nuevo León, Mpio. Galeana, Agua Blanca, San Miguel, 28.08.1951., G.B. Hinton et. al. 21284 (holotype: TEX, drawing!).
- Tamayorkis platyglossa* (B.L.ROB. & GREENM.) SZLACH.**, Fragm. Flor. Geobot., Suppl. 3: 122 (1995).
 ≡ *Malaxis ehrenbergii* var. *platyglossa* (B.L.ROB. & GREENM.) L.O.WILLIAMS, Ceiba 1: 187 (1950).
 ≡ *Malaxis platyglossa* (B.L.ROB. & GREENM.) AMES, Proc. Biol. Soc. Wash. 35: 84 (1922).
 ≡ *Microstylis platyglossa* B.L.ROB. & GREENM., Proc. Am. Acad. 32: 35 (1896).
 Type: Mexico, Oaxaca State, Sierra de San Felipe, 10 000' (3043m), 08.1894., C.G. Pringle 5614 (syntype: AMES-101739! only left upper photocopy), 5614a (syntype: AMES-101740!, AMES-101739! only left below photocopy); E.W. Nelson 1140 (syntype: GH).
- Tamayorkis reichenbachii* MARG.**, Richardiana. 4(3): 123-129 (2006).
 Type: Mexico, *sine prec. loc.*, Schmitz 669 (holotype: W-Rchb.Orch. 115424!).
 Paratypes: Mexico, below Paraje Provincial, Popocatepetl, 31.07.1938., E.K. Balls B5161 (BM!, K!); Federal District, Desierto de los Leones, 23.07.1938., E.K. Balls et all. B5215 (K!).
- Tamayorkis wendetii* (SALAZAR) R. GONZALES & SZLACH.**, Ann. Bot. Fen. 35: 22 (1998).
 ≡ *Malaxis wendetii* SALAZAR, Orquidea (Mex.) 13 (1-2): 281-284 (1993).
 Type: Mexico, Northeast, Coahuila, Sierra de la Madre, Municipios Cuatro Cienegas and Ocampo, Crest of Range near head of draining Canon de la Hacienda, 27°01'53"N 102°25'00", S-facing slopes along S-exposure of ridgeline, 2710 m, 16.08.1975., T. Wendt & E.J. Lott 1157 (holotype: LL, drawing!).

Index of referable names:

Achroanthes porphyrea = ***T. ehrenbergii***

Achroanthes purpurea (S. WATS.) = ***T. ehrenbergii***

Malaxis arachnifera = ***T. ehrenbergii***

Malaxis ehrenbergii ≡ **T. ehrenbergii**

Malaxis ehrenbergii var. *platyglossa* ≡ **T. platyglossa**

Malaxis hintonii ≡ **T. hintonii**

Malaxis minutiflora = **T. ehrenbergii**

Malaxis platyglossa ≡ **T. platyglossa**

Malaxis porphyrea = **T. ehrenbergii**

Malaxis purpurea (LINDL.) ≡ **C. purpureum** (LINDL.)

Malaxis purpurea (S. WATS.) = **T. ehrenbergii**

Malaxis wendetii ≡ **T. wendetii**

Microstylis arachnifera = **T. ehrenbergii**

Microstylis ehrenbergii ≡ **T. ehrenbergii**

Microstylis minutiflora = **T. ehrenbergii**

Microstylis platyglossa ≡ **T. platyglossa**

Microstylis porphyrea = **T. ehrenbergii**

Microstylis purpurea LINDL. ≡ **C. purpureum** (LINDL.)

Microstylis purpurea S. WATS. = **T. ehrenbergii**

Tamayorkis

Tamayorkis platyglossa

Tamayorkis ehrenbergii

Tamayorkis hintonii

Tamayorkis wendetii

Tamayorkis reichenbachii

Acknowledgments

I am especially grateful to Dr Robert Stangl (Head of Botanical Library of Vienna University), also the Curators of AMES, B, BM, C, FI, G, GB, K, US, W, WU, for the loan of herbarium specimens and/or their hospitality during my personal visits. Special thanks for Mrs. M.G. Kortylewska-Margońska and Mr. M. Margoński for help during my researches. The studies were conducted also with using digital database - *Archivum Orchidaleum*. This article was prepared thanks to KBN (Polish Committee for Scientific Research) grant No. 3PO4C-082-24.

References

- AMES O. & SCHWEINFURTH C, 1935: Nomenclatorial studies in *Malaxis* and *Spiranthes*. – Bot. Mus. Leafl. Harvard Univ. 3: 113-132.
- GONZALES TAMAYO R. & SZLACHETKO D.L., 1998: A new definition of the genus *Tamayorkis*. – Ann. Bot. Fen. 35: 21-27.
- MARGOŃSKA H.B., 2000: Notes about genus *Tamayorkis* SZLACH. with description of new species (Orchidales, Malaxidinae). – Richardiana. 4(3): 123-129.
- SZLACHETKO D.L., 1995: *Systema Orchidaleum*. – Fragn. Flor. Geobot., Suppl. 3: 1-152
- SZLACHETKO, D.L. & Margońska H.B., 2002: *Gynostemia Orchidaleum*. Vol. 2. Orchidaceae (Epidendroidea). – Ann. Bot. Fen. 173: 197pp+287 figs.
- WILLIAMS L.O., 1950: New noteworthy orchids. – Ceiba 1: 187.

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Annalen des Naturhistorischen Museums in Wien](#)

Jahr/Year: 2007

Band/Volume: [109B](#)

Autor(en)/Author(s): Margonska Hanna B.

Artikel/Article: [Malaxidinae index nominum - Tamayorkis Szlach. \(Orchidaceae\). 203-206](#)