

GENERA ET SPECIES ORCHIDALIUM. 13. ONCIDIEAE

DARIUSZ L. SZLACHETKO & JOANNA MYTNIK-EJSMONT

Abstract. A new genus – *Anettea* Szlach. & Mytnik, *gen. nov.* – of the tribe Oncidiinae (Vandoideae, Orchidaceae) is described. Taxonomic affinities of the newly proposed taxon is briefly discussed. New binominal combinations are made.

Key words: Orchidaceae – Vandoideae, Oncidiinae, *Anettea*, neotropics

Dariusz L. Szlachetko & Joanna Mytnik-Ejmont*, Department of Plant Taxonomy and Nature Conservation, Gdańsk University, Al. Legionów 9, PL-80-441 Gdańsk, Poland, *e-mail: dokjom@univ.gda.pl

The large subtribe Oncidiinae Benth. (Orchidaceae, Vandoideae) embraces about 60 genera (Szlachetko 1995). The distinguishing features of this subtribe are: pseudobulbs of one internode; furnished callus on lip; clinandrium usually large, spacious, frequently with wing-like projections on each side of the column apex; linear tegula, longer than the pollinia and small viscidium. These mostly epiphytic, neotropical plants are pollinated by bees, bumblebees, wasp, butterflies and in a few cases by hummingbirds. After detailed studies Szlachetko (1995) divided Oncidiinae *sensu* Dressler 1993 into ten subtribes. According to him, the morphology and the anatomy of the rostellum and of the viscidium support the placement of *Oncidium* and related genera into one single group. However, considering the differing structures of clinandrium, position of the anther and rostellum vs. long axis of the column, the different types of pollinarium and the morphology of the stigma, the rank of a tribe with several subtribes seem to be more appropriate. The generic delimitation in Oncidiinae is not clear. While revising liquid preserved materials for the last part of *Gynostemia Orchidaliium* (Szlachetko *et al.*, in prep.) we decided to separate some genera of *Oncidium sensu latissimo*. Although, our studies based mostly on the generative and floral characters, they are also supported by molecular data (Górniak *et al.*, in prep.).

Subtribe *ONCIDIINAE* Benth.

J. Linn. Soc., Bot. **18**: 288. 1881.

1. *Anettea* Szlach. & Mytnik, *gen. nov.*

Oncidium Sw. sect. *Crispa* Rchb.f. ex Pfitz.

Genus novum generibus Waluwea Regel et Kleberella V. P. Castro & Catharino *affine sed a* Waluwea *gynostemio glabro et alis prominentibus recedit et a* Kleberella *tegula plana, isthmo labelli integro et labello permagno recedit.*

GENERIC TYPE: *Anettea crispa* (Lodd.) Szlach. & Mytnik (= *Oncidium crispum* Lodd.).

ETYMOLOGY. Dedicated to Mrs. Anette Mulbauer, the Curator of the Orchid Living Collection in Heidelberg University, who provided us with botanical materials to our various projects.

Pseudobulbs elongate. Inflorescence elongate, multiflowered. Flowers large, showy. Petals and lip larger than sepals. Gynostemium erect or slightly arched, stout, short. Column part slightly longer than anther, winged near the stigma, wings usually well-developed, flabellate or flat, entire or uneven and papillate on the margins. Column foot absent. Anther subventral, incumbent, operculate, ovoid, obscurely 2-chambered, papillate. Connective narrow. Pollinia 2, oblong-obovoid to obovoid, dorsiventrally flattened, hard, unequally and deeply cleft, empty inside. Caudiculae sticky, amorphous. Apical clinan-

drium usually obscure, occasionally forming a narrow collar-like structure surrounding the anther base. Stigma large, elliptic, deeply concave. Rostellum relatively short, conical-digitate in the middle, obtuse. Viscidium single, elliptic, thick, fleshy. Tegula single, oblong to oblong elliptic, flat, sometimes more or less geniculate near the apex, thin, lamellate. Rostellum remnant bi-lobulate at the middle, canaliculate on the dorsal surface.

NOTE. The genus appears to be related to both *Waluwia* Regel and *Kleberliella* V. P. Castro & Catharino. It differs from the former by having glabrous gynostemium with prominent wings, and from the latter by the flat tegula, entire lip isthmus and the very large lip.

The genus embraces about 15 species. The new combinations are made herein:

Anettea crispa (Lodd.) Szlach. & Mytnik, *comb. nov.*

Basionym: *Oncidium crispum* Lodd., Bot. Cab.: 1854. 1832.

Anettea curta (Lindl.) Szlach. & Mytnik, *comb. nov.*

Basionym: *Oncidium curtum* Lindl., Bot. Reg. **33**: t. 68. 1847.

Anettea duveenii (Fowlie) Szlach. & Mytnik, *comb. nov.*

Basionym: *Oncidium duveenii* Fowlie, Orchid Digest **41**(5): 165. 1977.

Anettea enderiana (Cogn.) Szlach. & Mytnik, *comb. nov.*

Basionym: *Oncidium enderianum* Cogn., Gard. Chron. **2**: 75. 1892.

Anettea forbesii (Hook.) Szlach. & Mytnik, *comb. nov.*

Basionym: *Oncidium forbesii* Hook., Bot. Mag. **65**: t. 3705. 1839.

Anettea gardneri (Lindl.) Szlach. & Mytnik, *comb. nov.*

Basionym: *Oncidium gardneri* Lindl., London J. Bot. **2**: 662. 1843.

Anettea gravesiana (Rolfe) Szlach. & Mytnik, *comb. nov.*

Basionym: *Oncidium gravesianum* Rolfe, Gard. Chron. **1**: 650, f. 94. 1892.

Anettea imperatoris-maximiliani (Rchb.f.) Szlach. & Mytnik, *comb. nov.*

Basionym: *Oncidium imperatoris-maximiliani* Rchb.f., Bot. Ergeb. Maxim. Bras. 154.

Anettea marshalliana (Rchb.f.) Szlach. & Mytnik, *comb. nov.*

Basionym: *Oncidium marshallianum* Rchb.f., Gard. Chron. 682. 1866.

Anettea pectoralis (Lindl.) Szlach. & Mytnik, *comb. nov.*

Basionym: *Oncidium pectorale* Lindl., Sert. Orchid.: 39. 1840.

Anettea praetexta (Rchb.f.) Szlach. & Mytnik, *comb. nov.*

Basionym: *Oncidium praetextum* Rchb.f., Gard. Chron. 1206. 1873.

Anettea sarcodes (Lindl.) Szlach. & Mytnik, *comb. nov.*

Basionym: *Oncidium sarcodes* Lindl., J. Hort. Soc., London **4**: 266. 1849.

Anettea zappii (Pabst) Szlach. & Mytnik, *comb. nov.*

Basionym: *Oncidium zappii* Pabst, Bradea **2**(22): 3. 1976.

ACKNOWLEDGMENTS. I am greatly indebted to Professor Mark W. Chase from Jodrell Laboratory, Royal Botanic Gardens, Kew, for providing us with liquid preserved material of *Oncidieae*, to Professor Marcus Koch for access to liquid and living orchids' collections

in Botanical Garden of the University of Heidelberg (HEID), to Professor Ryszard Ochyra for latinization of the diagnoses, and to the anonymous reviewer for valuable comments on the manuscript. This article was prepared at the Heidelberg University thanks to a grant from the Alexander von Humboldt-Stiftung (V-8121/POL/1067782), Polish State Committee for Scientific

Research (KBN grant 510/P04/2004/27) and Gdańsk University (grant BW/14AO-5-0250-5).

REFERENCES

- SZLACHETKO D. L. 1995. Systema Orchidaliium. *Fragm. Florist. Geobot., Suppl.* 3: 1–152.

Received 2 February 2006

