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ABSTRACTS

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THE LICHEN BIOTA OF THE POLISH CARPATHIANS – GENERAL CHARACTERISTIC

URSZULA BIELCZYK

Abstract. Current knowledge of the Polish Carpathian lichens is reviewed and the lichenological characteristics of the area are analysed on the basis of ecological requirements of selected species. The following aspects are discussed: i) altitudinal elements: mountain species – montane species, subalpine species, high moun-

tain species; multizonal mountain species; non-mountain species, ii) edaphic elements, iii) geographical elements. Maps of selected lichen species representing various distribution pat-terns are presented. Different aspects of the anthropogenic changes, endangerment and conservation of lichens in the area are also discussed.

Key words: lichens, lichen conservation, biodiversity, Carpathians, Poland

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HIERACIA BALCANICA III. A NEW SPECIES IN *HIERACIUM* SECT. *CERNUA* (ASTERACEAE) FROM BULGARIA

ZBIGNIEW SZELĄG

Abstract. *Hieracium werneri* Szeląg, *sp. nov.* from the Rhodope Mountains in southern Bulgaria is described and illustrated. This has previously been confused with *H. grisebachii* A. Kern., which also has naked involucres and semi-amplexicaul cauline leaves. The new species is triploid (2n = 27) and reproduces apomictically. Its distribution, ecology and a morphological relationships to the most closely species in *H.* sect. *Cernua* are given.

Key words: Asteraceae, *Hieracium*, taxonomy, chromosome number, Balkan Peninsula, Rhodope Mts

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GENERA ET SPECIES ORCHIDALIUM. 8. ZYGOPETALEAE

DARIUSZ L. SZLACHETKO, JOANNA MYTNIK-EJSMONT & MARCIN GÓRNIAK

Abstract. A new genus of the subfamily Vandoideae (Orchidaceae) – *Andinorchis* Szlach., Mytnik & Górniak, *gen. nov*. – is described. Its taxonomic position is briefly discussed. Two new combinations at the species level are validated.

Key words: Orchidaceae, Vandoideae, Zygopetaleae, *Andinorchis*, neotropics

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GENERA ET SPECIES ORCHIDALIUM. 9. ZYGOPETALEAE

DARIUSZ L. SZLACHETKO

Abstract. A new genus of the subfamily Vandoideae (Orchidaceae) – *Polycycnopsis* Szlach., *gen. nov*. – is described. New combinations in the genus *Jennyella* Lückel & Fessel are proposed. Taxonomic position of both taxa is briefly discussed.

Key words: Orchidaceae – Vandoideae, Zygopetaleae, *Polycycnopsis, Jennyella,* neotropics

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GENERA ET SPECIES ORCHIDALIUM. 10. ORNITHOCEPHALEAE

DARIUSZ L. SZLACHETKO

Abstract. A new monotypic genus *Phymatidiopsis* Szlach., *gen. nov.* (Vandoideae, Orchidaceae) is described. Its relationships with the closely related *Phymatidium* Lindl. are discussed. One new combination is made.

Key words: Orchidaceae, Vandoideae, Ornithocephaleae, *Phymatidiopsis*, neotropics

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GENERA ET SPECIES ORCHIDALIUM. 11. ONCIDIEAE

DARIUSZ L. SZLACHETKO

Abstract. Three new genera *Diadeniopsis* Szlach., *gen. nov*., *Rhinocerotidium* Szlach., *gen. nov.*, and *Stacyella* Szlach., *gen. nov* of the neotropical tribe Oncidieae (Vandoideae, Orchidaceae) are described and their taxonomic affinities briefly discussed. The necessary new combinations are validated.

Key words: Orchidaceae, Vandoideae, Oncidieaea, *Diadeniopsis, Rhinocerotidium, Stacyella*, neotropics

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GENERA ET SPECIES ORCHIDALIUM. 12. ONCIDIEAE

AGNIESZKA ROMOWICZ & DARIUSZ L. SZLACHETKO

Abstract. Three new genera of the tribe Oncidieae (Vandoideae, Orchidaceae) are described: *Aurinocidium* Romowicz & Szlach., *gen. nov*., *Concocidium* Romowicz & Szlach., *gen. nov.* and *Vitekorchis* Romowicz & Szlach., *gen. nov.* Taxonomic affinities of new taxa are briefly discussed and new combinations at the species level are proposed.

Key words: Orchidaceae, Vandoideae, Oncidieaea, *Aurinocidium, Concocidium, Vitekorchis,* neotropics

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GENERA ET SPECIES ORCHIDALIUM. 13. ONCIDIEAE

DARIUSZ L. SZLACHETKO & JOANNA MYTNIK-EJSMONT

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

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

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GENERA ET SPECIES ORCHIDALIUM. 14. ONCIDIEAE

DARIUSZ L. SZLACHETKO, JOANNA MYTNIK-EJSMONT & AGNIESZKA ROMOWICZ

Abstract. *Lophiarella* Szlach., Mytnik & Romowicz, *gen. nov.* and *Heteranthocidium* Szlach., Mytnik & Romowicz, *gen. nov.* (Orchidaceae, Vandoideae, On-

cidieae) are described as new genera. Their taxonomic relationships are briefly discussed. New binominal combinations in these two new genera are validated.

Key words: Orchidaceae, Vandoideae, Oncidieae, *Lophiarella, Heteranthocidium*, neotropics

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GENERA ET SPECIES ORCHIDALIUM. 15. MAXILLARIEAE

DARIUSZ L. SZLACHETKO, JOANNA MYTNIK-EJSMONT, MARCIN GÓRNIAK & MAGDALENA ŚMISZEK

Abstract. A new genus of the subfamily Vandoideae (Orchidaceae) – *Christensonella* Szlach., Mytnik, Górniak & Śmiszek, *gen. nov*. – is described. Its taxonomic position is briefly discussed and 16 new combinations are made.

Key words: Orchidaceae, Vandoideae, Maxillarieae, *Christensonella*, neotropics

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STOMATOCYSTS OF THE DOLINA GĄSIENICOWA VALLEY IN THE TATRA MTS (POLAND). 1. CZARNY STAW GĄSIENICOWY AND ZMARZŁY STAW GĄSIENICOWY LAKES

JOLANTA PIĄTEK

Abstract. Nineteen morphotypes of chrysophyte stomatocysts are reported from Czarny Staw Gąsienicowy and Zmarzły Staw Gąsienicowy lakes in the Dolina Gąsienicowa valley, Tatra National Park, Poland. Of these, four morphotypes are new to science, one is new to Europe, three are new to Poland and one is new to the Tatra Mts. All stomatocysts are documented by original descriptions, SEM micrographs, and information on their Polish and world distribution. The autecology of some stomatocysts found during the present study is reviewed and discussed.

Key words: Stomatocysts, chrysophytes, new morphotypes, taxonomy, autecology, Tatra National Park, Poland

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JAMESDICKSONIA IRREGULARIS, NEWLY RECOGNIZED IN POLAND, WITH A NOTE ON THE GENUS *JAMESDICKSONIA* (USTILAGINOMYCETES)

MARCIN PIĄTEK & MARIA PROŃCZUK

Abstract. *Jamesdicksonia irregularis* (Johanson) R. Bauer, Begerow, A. Nagler & Oberw. collected in Poland is described, illustrated and discussed. The grass disease caused by this fungus is also briefly described. This is the first report of *Jamesdicksonia irregularis* in the country. The genus *Jamesdicksonia* Thirum., Pavgi & Payak *emend*. R. Bauer, Begerow, A. Nagler & Oberw. is briefly reviewed and discussed. The sixteen species included in the genus, including two newly added, *J. brizae* (Unamuno & Cif.) M. Piątek & Vánky, *comb. nov.* and *J. parva* (Davis) M. Piątek & Vánky, *comb. nov.*, are enumerated together with their taxonomic synonyms, host plants and geographical distribution.

Key words: *Jamesdicksonia*, Georgefisheriales, Ustilaginomycetes, blister smut, Poland

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NEW DISTRIBUTION AND HOST RECORDS FOR *PUCCINIA ATROFUSCA* AND OTHER NOTABLE *PUCCINIA* SPECIES (UREDINALES) FROM CENTRAL ASIA

ANDRZEJ CHLEBICKI & M. CATHERINE AIME

Abstract. Several species of *Puccinia* were recently collected in the Himalayan region of Central Asia from Kazakhstan and Tibet. *Puccinia atrofusca* (Dudley & C. H. Thomps.) Holw. is reported for the first time from India, in the Ladakh Mountains (West Tibet, Kashmir and Jammu provinces). The first record of a rust pathogenic on *Polygonum songoricum* Schrenk is recorded for *Puccinia nitidula* Tranzschel in Tranzschel & Serebrian. in Kazakhstan. *Puccinia saxifragae* Schltdl. and *P. allii* (DC.) F. Rudolphi are also newly reported from Kazakhstan. These species are described, illustrated and discussed.

Key words: Uredinales, *Allium*, *Kobresia*, *Polygonum*, *Saxifraga*, Tibet, Thian Shan, Asia

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BOTANICAL NOTES

DIPLOPHYLLUM ALBICANS (HEPATICOPSIDA, SCAPANIACEAE) IN THE POLISH CARPATHIANS

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