

VALIDATION OF THE GENUS *SIEPMANNIA* (MUCORACEAE) AND ITS FOUR SPECIES

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Kwaśna and Nirenberg (2008) described *Siepmannia*, a new genus in the Mucoraceae, and two new species within *Siepmannia*, e.g. *Siepmannia pineti* Kwaśna & Nirenberg and *S. lariceti* Nirenberg & Kwaśna. The molecular analysis showed a close relationship of both fungi to *Absidia parricida* Renner & Muskat *ex* Hesseltine & J. J. Ellis (strain CBS174.67) and *A. zychae* Hesseltine & J. J. Ellis (strain CBS104.35). The inclusion of *A. parricida* and *A. zychae* in the *Siepmannia* genus and the creation of two new combinations, e.g. *Siepmannia parricida* and *Siepmannia zychae* were proposed (Kwaśna & Nirenberg 2008).

However, in this paper the type species of the genus *Siepmannia* was not designated, rendering all nomenclatural novelties invalid (ICBN, Arts 37.1, 43.1 and 33.4). Therefore, the following validations are necessary.

Siepmannia Nirenberg & Kwaśna, *gen. nov.*

Coloniae in agarō PDA dicto moderate vel lentissime crescentes, paulo lanosae usque funiculosae vel gelatinosae postea pulverulosae. Mycelio aërio albo vel pallide ochraceo usque subfusco. Mycelium filamentosum e hyphis tenuitunicatis, ramosis vel cellulis inflatis, magnis, globosis compositum. Sporangiphora recta vel circinata, monopodialiter vel sympodialiter ramosa. Rami unum sporangium terminale ferentes, septo subsporangiodivisi. Sporangia singularia, minuta, globosa, multispóra; tunica partim deliquescentia. Columellae hemisphaericae vel globosae, collarium distinctum praebentes. Sporangiosporae minutae, unicellulares, hyalinae, leves, globosae vel ovulares vel subcylindricae. Stolones et rhizoides saepe presentes. Zygosporae etiam

saepe presentes, in mycelio aërio formatae, brunneolae; suspensores aequales, nonnumquam appendicibus carentes. Gemmae absunt. Mycotrophicae.

TYPE SPECIES: *Siepmannia pineti* Kwaśna & Nirenberg, *sp. nov.*

ETYMOLOGY. The genus name *Siepmannia* was given in recognition of Rolf Siepmann who, as a mycologist specializing in Zygomycetes, worked at the Federal Biological Research Centre for Agriculture and Forestry, Institute of Forest Plant Protection in Hann.-Münden, 1966–1988, and was a co-author of the book *Mucorales – eine Beschreibung aller Gattungen und Arten dieser Pilzgruppe* published in 1969 by J. Cramer Verlag, Lehre.

Colonies on PDA moderately to slow growing, loosely cottony to funiculose or gelatinous, later powdery, with white to ochraceous aerial mycelium. Mycelium composed of filamentous, thin-walled and branched hyphae or of swollen hyphae and large, round cells. Sporangiphores erect or circinate, monopodially or sympodially branched, usually with a septum under the sporangium. Sporangia single, terminal, small, globose, many-spored with a partly deliquescent sporangial wall. Columella hemispherical to globose, mostly with a well-defined collar. Sporangiospores minute, one-celled, hyaline, smooth, globose to oval or cylindrical. Stolons and rhizoids may occur. Zygosporae, if present, borne in the aerial mycelium, brownish, warty. Suspensores equal in size. Appendages usually prominent.

Siepmannia pineti* Kwańska & Nirenberg, *sp. nov.

LATIN DESCRIPTION: Kwańska & Nirenberg, *Mycologia* **100**(2): 261. 2008.

HOLOTYPE: IMI 393564 CABI Bioscience UK Centre, dried culture of No KFL S11 on SNA. Isolated from soil of *Betula pendula*, Zielonka, Poznań, Poland, 17°10'E/52°50'N, Nov. 2002, *H. Kwańska* (EMBL No. AJ748134).

Detailed description, illustrations, iso- and paratypes in Kwańska and Nirenberg (2008).

Siepmannia lariceti* Nirenberg & Kwańska, *sp. nov.

LATIN DESCRIPTION: Kwańska & Nirenberg, *Mycologia* **100**(2): 261. 2008.

HOLOTYPE: IMI 393565 CABI Bioscience UK Centre, dried culture of No KFL S13 on SNA. Isolated from soil of *Larix decidua*, Zielonka, Poznań, Poland, 17°10'E/52°50'N, Nov. 2002, *H. Kwańska* (EMBL No. AJ748857).

Detailed description, illustrations, iso- and paratypes in Kwańska and Nirenberg (2008).

Siepmannia parricida* (Renner & Muskat ex Hesselt. & J. J. Ellis) Kwańska & Nirenberg, *comb. nov.

BASIONYM: *Absidia parricida* Renner & Muskat ex Hesselt. & J. J. Ellis, *Mycologia* **56**: 577. 1964.

Siepmannia zychnae* (Hesselt. & J. J. Ellis) Nirenberg & Kwańska, *comb. nov.

BASIONYM: *Absidia zychnae* Hesselt. & J. J. Ellis, *Mycologia* **58**: 768. 1966.

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