
Typification and validation of some names in *Synuropsis* J.Schiller, 1929 (*Chromulinaceae*, *Chrysophyceae*)

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The genus name *Synuropsis* J.Schiller was introduced by Schiller (1929: 443) for two new freshwater chrysophycean species, *S. danubensis* J.Schiller and *S. globosa* J.Schiller, without specifying a type. While *Synuropsis danubiensis* J.Schiller was named by Wujek & Thompson (2001: 88) as type, it was not formally designated as required after 1 January 2001 by ICN Art. 7.11 (Turland *et al.* 2018). Additionally, a number of new combinations made by Wujek & Thompson (2001: 88) were nomenclaturally invalid as “a full and direct reference given to its author and place of valid publication, with page or plate reference and date” (ICN Art. 41.5) was not provided. We here rectify these nomenclatural issues.

Synuropsis J.Schiller, *Archiv für Protistenkunde* Vol. 66, p. 443, 1929.

Lectotype (here designated): *Synuropsis danubensis* J.Schiller, 1929.

Note: prior to 1 January 1958, a name may be validly published without indicating a type (ICN Art. 40.1), so the original name was not invalid.

Synuropsis elaeochrus (F.W.Jane) Wujek & R.H.Thompson, *comb. nov.*

Basionym: *Synochromonas elaeochrus* F.W.Jane, *Proceedings of the Linnean Society of London*, Vol. 152, p. 307, fig. 3, 1940.

Note: “*Syncrypta elaeochrus* Bourrelly” *nom. inval.* (Bourrelly 1957: 149), supposedly based on *Synochromonas elaeochrus* F.W.Jane, is invalid as it also does not meet the requirements of ICN Art. 41.5.

Synuropsis gracilis (Korshikov) Wujek & R.H.Thompson, *comb. nov.*

Basionym: *Synochromonas gracilis* Korshikov, *Archiv für Protistenkunde* Vol. 95, p. 30, fig. 6, 1941.

Note: “*Uroglena gracilis* Bourrelly” *nom. inval.* (Bourrelly 1957: 153), supposedly based on *Synochromonas gracilis* Korshikov, is invalid as it does not meet the requirements of ICN Art. 41.5.

Synuropsis janei (Bourrelly) Wujek & R.H.Thompson, *comb. nov.*

Basionym: *Syncrypta janei* Bourrelly *Revue Algologique: Mémoire Hors-Série* Vol. 1: p. 149, fig. J 16 [p. 59]; pl. I: figs. 23, 24, 1957.

Note: While the original description of *Syncrypta janei* Bourrelly is only in French, for algae, Latin was a requirement only from 1 January 1958 through to 31 December 2011 (ICN Art. 44.1).

Synuropsis pallida (Korshikov) Wujek & R.H.Thompson, *comb. nov.*

Basionym: *Synochromonas pallida* Korshikov, *Archiv für Protistenkunde* 67, p. 273, pl. 9: figs 9-12; pl. 10: fig. 24, 1929

Note: “*Syncrypta pallida* Bourrelly” (Bourrelly 1957: 149), supposedly based on *Synochromonas pallida* Korshikov, is invalid as it does not meet the requirements of ICN Art. 41.5.

Synuropsis perlata (Skuja) Wujek & R.H.Thompson, *comb. nov.*

Basionym: *Synochromonas perlata* Skuja, *Nova Acta Regiae Societatis Scientiarum Upsaliensis, Series IV* 16(3): 285, pl. XLIX [49]: figs 5-8, 1956

Note: “*Syncrypta perlata* Bourrelly” *nom. inval.* (Bourrelly 1957: 149), supposedly based on *Synochromonas perlata* Skuja, is invalid as it does not meet the requirements of ICN Art. 41.5.

Bourrelly, P. (1957). Recherches sur les Chrysophycées. Morphologie, phylogénie, systématique. *Revue Algologique: Mémoire Hors-Série* 1: [1]-412. Note: this publication was based on a thesis presented in 1954 but apparently not published at this time.

Jane, F.W. (1940). Two new chrysophycean flagellates *Cyclonexis erinus* and *Synochromonas elaeochrus*. *Proceedings of the Linnean Society of London* 152(3): 298-309.

Korshikov, A.A. (1929). Studies on the Chrysoomonads I. *Archiv für Protistenkunde* 67: 253-290, pls 8-11.

Korshikov, A.A. (1941). On some new or little known flagellates. *Archiv für Protistenkunde* 95: 22-44.

Schiller, J. (1929). Neue Chryso- und Cryptomonaden aus Altwässern der Donau bei Wien. *Archiv für Protistenkunde* 66: 436-458.

Skuja, H. (1956). Taxonomische und biologische Studien über das Phytoplankton schwedischer Binnengewässer. *Nova Acta Regiae Societatis Scientiarum Upsaliensis, Series IV* 16(3): 1-404, + 63 pls.

Wujek, D.E. & Thompson, R.H. (2001). The chrysophyte genera *Synuopsis* Schiller, *Volvochrysis* Schiller, *Synochromonas* Korshikov, *Pseudosynura* Kisselew, *Chrysomoron* Skuja and *Syncrypta* Ehrenberg. *Transactions of the Kansas Academy of Science* 104: 79-91, 14 figs.