

Phycoflabellina nomen novum (Delesseriaceae, Rhodophyta), a replacement name for *Flabellina* Selivanova & Zhigadalova (2016), nom. illeg., non Korde (1986)

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Flabellina avachensis, a new genus and species of Delesseriaceae (Ceramiaceae, Rhodophyta), was described by Selivanova & Zhigadalova (2016), with a type locality of Besymyannaya Inlet (growing at a depth 12-14 m), Avacha Bay, Avacha Gulf, Kamchatka, Russia, north-western Pacific Ocean. This generic name *Flabellina*, however, was validated earlier by Korde (1986) for a Lower Cambrian fossil alga from the right bank of the Dzhida River of E. Sajon, Russia. That fossil algal species was *F. multiformis* K.B.Korde and was thought to be either Rhodophyceae or Phaeophyceae affinities. The family name Flabellinaceae was also proposed by Korde (1986). Although Korde's descriptions of the new genus and new family lacked both Latin and English descriptions, a Latin or English description or diagnosis was not a requirement of the Code for a new fossil-taxon prior to 1 January 1996 (Art. 43.1, Melbourne Code, McNeill *et al.* 2012). It should be noted that Mankiewicz (1992) later included *Flabellina* in a category of "dubiofossils" (i.e., objects unlikely to be of biological origin).

The following replacement name is therefore proposed:

***Phycoflabellina* M.J.Wynne & C.W.Schneider nomen novum pro *Flabellina* Selivanova & Zhigadalova nom. illeg., *Marine Biology, Nauka* 42(3): 182, 2016, non *Flabellina* Korde, *New algal species of the early Paleozoic...*, 106).**

Generitype (designated here): ***Phycoflabellina avachensis* (Selivanova & Zhigadalova) M.J.Wynne & C.W.Schneider comb. nov.**

Basionym: *Flabellina avachensis* Selivanova & Zhigadalova, *Marine Biology, Nauka* 42(3): 183, figs 1-5, 2016.

Selivanova & Zhigadalova (2016) compared their new genus with several other related Delesseriacean genera, namely, *Haraldiophyllum*, *Hideophyllum* and *Myriogramme*. These genera are all currently placed in the tribe *Myriogrammeae* (Hommersand & Fredericq 1997; Wynne 2014). An additional related genus, *Neoharaldiophyllum*, has recently been described by Kang *et al.* (2017), with *Neoharaldiophyllum udoense* (M.S.Kim & J.C.Kang) J.C.Kang & M.S.Kim designated as generitype. *Haraldiophyllum* and *Neoharaldiophyllum* can be distinguished from *Phycoflabellina* in that both produce carposporangia as solitary structures terminating gonimoblast filaments (Zinova 1981; Maggs & Hommersand 1993). As in *Hideophyllum* and *Myriogramme*, carposporangia in *Phycoflabellina* are produced in short chains terminating gonimoblast filaments. *Phycoflabellina* can be separated from *Hideophyllum* by the number of layers in the blade, the much smaller size of the thallus, the solitary blades with smooth margins and lacking serrations and proliferations, and the presence of veins that do not reach the blade margin (Selivanova & Zhigadalova 2016). In both *Myriogramme* and *Phycoflabellina* a central cell of the blade cuts off two pairs of pericentral cells opposite one another on each side of the thallus. The first of each pair of cells forms a sterile vegetative cell (= the cover cell) and the second forms the procarp. *Myriogramme* is distinguished by its procarp consisting of a carpogonial branch and a 1- or 2-celled lateral sterile cell group and a one-celled basal sterile cell group (Hommersand & Fredericq 1997, for *Myriogramme livida*, the generitype), whereas the procarp of *Phycoflabellina* consists of a carpogonial branch and two groups of sterile cells (the first group contains up to three cells and the second group up to two cells) (Selivanova & Zhigadalova 2016, as *Flabellina avachensis*). It is

clear that there needs to be a molecular phylogenetic assessment of these closely related genera, but for now, we have validated a replacement for the illegitimate generic name introduced by Selivanova & Zhigadalova (2016).

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