

Notes on the epitype of *Scenedesmus praetervisus* and validation of *Desmodesmus praetervisus* (*Scenedesmaceae*, *Chlorophyceae*)

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It has come to our attention that the treatment of “*Desmodesmus praetervisus*” in Jang & al. (2025: 178) had some issues with regard to specific provisions of the ICN (Madrid Code, Turland & al. 2025). The reference to the basionym in Jang & al. (2025) was not full and direct (Art. 41.5, Note 1), and the intended epitype was not formally linked to a type. Chodat (1926: 196, fig. 92) did not explicitly published a type; thus we here designate a lectotype for which an epitype is designated here (Art. 9.9).

Desmodesmus praetervisus (Chodat) Y.J.Jang, H.S.Cho, J.H.Kim, C.S.Lee, S.W.Nam & J.M.Lee, *comb. nov.*

Basionym: *Scenedesmus praetervisus* Chodat, *Zeitschrift für Hydrologie* 3: 196, fig. 92, 1926.

Lectotype locality: Indonesia, Central Java, overflowed rice paddy field “Sawa, Mipitan”.

Lectotype (**designated here**): [icon!]: fig. 92, upper illustration in Chodat (1926) redrawn from Wołoszyńska (1912: pl. XXXVI: fig. 7), see our Figures 1A, D.

Epitype locality: Gian Reservoir at 69-6, Baeyang-dong, Hwaseong-si, Gyeonggi-do, Republic of Korea (Geo reference: 37° 13' 13.4" N, 126° 59' 25.5" E)

Epitype (**designated here** by Y.J. Jang & J.M. Lee): Permanent slide NNIBR-CL24126 prepared from strain FBCC-A0724, deposited in NNIBR (Sangju, Republic of Korea). Strain illustrated in Jang & al. (2025; fig. 5), representative DNA sequences are given in Jang & al. (2025: 178).

Representative DNA sequences (INSDC) according to Jang & al. (2025): 18S rRNA partial: PV580260, ITS (ITS-1, 5.8S, ITS-2): PV580260, 28S rRNA partial: PV580260, *rbcL*: PV640535, *tufA*: PV640542.

Registration (name): <http://phycobank.org/106627> (types): <http://phycobank.org/106628>

Notes: Robert Hippolyte Chodat (1865–1934) was a Swiss botanist at Genève (Stafleu & Cowan 1976: 496). Chodat (1926: 71) mostly used living algal cultures “*cultures pures*” for his studies and compared them with data and published images from the literature. Hegewald & Silva (1988: 402) indicated that no type of *Scenedesmus praetervisus* had been indicated by Chodat (1926) and cited two syntype localities, namely Lac de Champes, Switzerland and Java.

According to Koster (1969) Chodat’s algae collections are lost, and, thus, only the published images in Chodat (1926) are currently available from his original material. The Switzerland locality should be linked to his own observations of cultures whereas the images were redrawn from the publication of Wołoszyńska (1912) from Java. Nothing is known of the collections of Jadwiga Wołoszyńska (1882–1951) according to Chodat (1926), Koster (1969) and Stafleu & Cowan (1988: 431) and studies from the past such as from Chodat (1926) as well as current studies (e.g. Şahin & al. 2026) have to be satisfied with her published images. As Chodat (1926) had reworked Wołoszyńska’s illustrations (see our Fig. 1 A, B), her published figures are also part of Chodat’s original material, and worth reproducing here (see our Fig. 1 C, D). However, the illustrations are not sufficient to ascertain the identity of this taxon unequivocally (as



previously noted by Jang & al. 2025), thus an epitype is here chosen for further usage of the taxon name in taxonomy, phylogenetic research and monitoring.

Hyeon Shik Cho, Jee Hwan Kim, Chang Soo Lee and Seung Won Nam contributed to the evaluation and recombination of *Desmodesmus praetervisus*.

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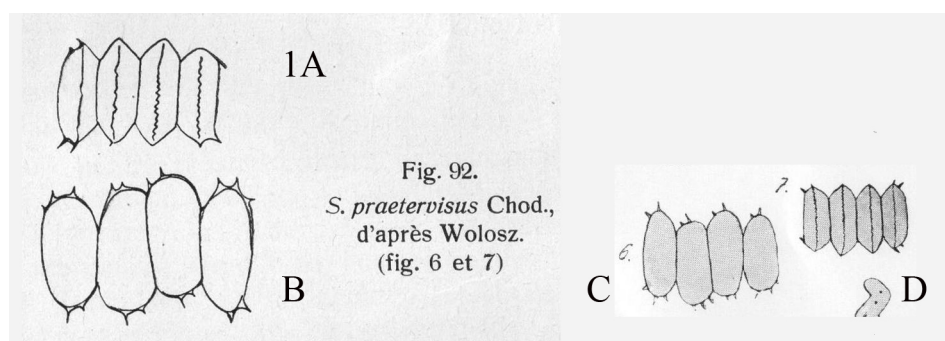


Fig. 1. Original material of *Scenedesmus praetervisus* Chodat. **A. Designated lectotype:** R. Chodat's fig. 92 upper part, published in R. Chodat (1926) with reference to Wołoszyńska (1912: pl. 36: fig. 7) **B.** Further illustration: R. Chodat's fig. 92 lower part, published in Chodat (1926) with reference to Wołoszyńska (1912: pl. 36: fig. 6). **C.** *Scenedesmus praetervisus*, identified as *S. denticulatus* in Wołoszyńska (1912: pl. XXXVI [36]: fig. 6, 7) from Java material. **D.** *Scenedesmus praetervisus* Chodat, identified as *S. hystrix* in Wołoszyńska (1912: pl. XXXVI [36]: fig. 7) from Java material.