
Validation of *Prestauroneis protracta* (Grunow) I.W.Bishop, Minerovic, Q.Liu & Kociolek *comb. nov. et stat. nov.* (Bacillariophyceae)

I.W. Bishop, *Institute of Arctic and Alpine Research (INSTAAR), University of Colorado Boulder, CO 80303, USA (corresponding author: ian.w.bishop@colorado.edu)*

A.D. Minerovic, *Diatom Herbarium, Academy of Natural Sciences of Drexel University, Philadelphia, PA 19103, USA*

J.P. Kociolek, *Museum of Natural History and Department of Ecology and Evolutionary Biology, University of Colorado, Boulder, CO 80309, USA*

Recently, Liu *et al.* (2015: 137) proposed a new combination in the genus *Prestauroneis*, *P. protracta* Q.Liu & Kociolek in Q.Liu *et al.* However, an incorrect basionym, “*Pinnularia protracta* Grunow *ex* Cleve 1895: 87”, was cited. This name does not exist, and is likely an erroneous reference to *Pinnularia integra* Grunow (in Cleve 1895: 87), *nom. illeg.* As a result, the proposed new combination does not meet the requirements of ICN Art. 41.5 (Melbourne Code, McNeill *et al.* 2012) and is thus invalid.

The earliest valid and legitimate description of the basionym of *Prestauroneis protracta* is *Navicula (Crucicula var.?) protracta* Grunow 1880. While the presentation of this name suggests an expression of doubt by Grunow, it is clear from Grunow’s subsequent use of it that he accepted the name as *Navicula crucicula var. protracta* (Grunow in Van Heurck 1882; Grunow 1882), and according to ICN Art. 36.1, subsequent referral of this sort is supportive of taxonomic validity where question marks are found in published names (McNeill *et al.* 2012 “Art. 36.1(a) does not apply to names published with a question mark or other indication of taxonomic doubt, yet accepted by their author.”). We therefore propose the following transfer:

Prestauroneis protracta* (Grunow) I.W.Bishop, Minerovic, Q.Liu & Kociolek, *comb. et stat. nov.

Basionym: *Navicula (Crucicula var.?) protracta* Grunow in Cleve & Grunow, *Kongliga Svenska Vetenskaps-Akademiens Handlingar* 17(2): 35, pl. II: fig. 38, 1880 (‘1879’).

≡ *Parlibellus protracta* (Grunow) Witkowski, Lange-Bertalot & Metzeltin *Iconographia Diatomologica* 7: 324, 2000.

≡ *Navicula protracta* (Grunow) Cleve, *Kongliga Svenska Vetenskaps-Akademiens Handlingar*, 26(2): 140, 1894.

≡ “*Pinnularia protracta* Mayer” *Berichte des naturwissenschaftlichen (früher zoologisch-mineralogischen) Vereins zu Regensburg* 14: pl. XXII [22]: fig. 13, 1913, *nom. inval.* Error of citation: name only appears on the plate legend and then not in full; treated in text as *Navicula protracta*.

≡ *Placoneis protracta* (Grunow) Mereschkowsky *Beihefte zum Botanischen Centralblatt* 15(1): 16, pl. 1: fig. 3, 1903.

Cleve, P.T. (1894). Synopsis of the naviculoid diatoms. Part I. *Kongliga Svenska Vetenskapsakademiens Handlingar* 26(2): 1-194, 5 pls.

Cleve, P.T. (1895). Synopsis of the naviculoid diatoms. Part II. *Kongliga Svenska Vetenskapsakademiens Handlingar* 27(3): 1-219, 5 pls.

Cleve, P.T. & Grunow, A. (1880 ‘1879’). Beiträge zur Kenntniss der arctischen Diatomeen. *Kongliga Svenska Vetenskapsakademiens Handlingar* 17(2): 1-121, 7 pls.

-
- Grunow, A. (1882). Beiträge zur Kenntnis der fossilen Diatomeen Österreich-Ungarns. Band 2/4: 136-159, pls XXIX, XXX. In: *Beiträge zur Paläontologie Österreich-Ungarns und des Orients* (Ed. by Mojsisovics, E. & Neumayer, N.). pp. 1-488. Alfred Holder, Vienna.
- Mayer, A. (1913). Die Bacillariaceen der Regensburger Gewässer. Systematischer Teil. *Berichte des naturwissenschaftlichen (früher zoologisch-mineralogischen) Vereins zu Regensburg* 14: 1-364, 30 pls.
- McNeill, J., Barrie, F.R., Buck, W.R., Demoulin, V., Greuter, W., Hawksworth, D.L., Herendeen, P.S., Knapp, S., Prado, J., Prud'homme van Reine, W.F., Smith, G.F., Wiersema, J.H. & Turland, N.J. (2012). *International Code of Nomenclature for algae, fungi and plants (Melbourne Code)* adopted by the Eighteenth International Botanical Congress Melbourne, Australia, July 2011. *Regnum Vegetabile*, Vol. 154. pp. [i]-xxx, 1-208. Königstein: Koeltz Scientific Books.
- Mereschkowsky, C. (1903). Über *Placoneis*, ein neues Diatomeen-Genus. *Beihefte zum Botanischen Centralblatt* 15(1): 1-30, 1 pl.
- Liu, Q., Kociolek, J.P., Wang, Q.X. & Fu, C.X. (2015). Two new *Prestauroneis* Bruder & Medlin (Bacillariophyceae) species from Zoige Wetland, Sichuan Province, China, and comparison with *Parlibellus* E.J. Cox. *Diatom Research* 30(2): 133-139.
- Van Heurck, H. (1882-1885). *Types de Synopsis de Diatomées de Belgique. Serie I-XXII. 550 slides. Déterminations, notes et diagnoses par M.A. Grunow.* pp. 1-118. Anvers: Édité par l'Auteur.
- Witkowski, A., Lange-Bertalot, H. & Metzeltin, D. (2000). Diatom flora of marine coasts I. *Iconographia Diatomologica* 7: 1-925, 219 pls.