

***Gloeocapsa cordae* Guiry, a new name for *Gloeocapsa violacea* (Corda) Rabenhorst, *nom. illeg.* (*non Gloeocapsa violacea* Kützing)**

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The name *Protococcus violaceus* was introduced by Corda in Sturm's *Deutschlands Flora*, Abtheilung ii, *Cryptogamie*, Band 5, Heft 18, Species 2 (March/April 1829) for material collected from plaster walls in moist rooms at an un-named locality, perhaps Prague in the Czech Republic, as Corda was studying surveying at the University of Prague at this time*.

In the "Register" at the beginning of Band 5 (ii) of the Sturm *Flora*, the spelling "*violaceus*" is used but in the heading of the text the spelling "*violasceus*" is employed, whilst on the unnumbered plate the spelling "*violaceus*" is engraved (apparently by Sturm). Later authors have variously adopted "*violaceus*" and "*violasceus*" for this species. However, it is clear that *violaceus* is the correct name and that "*violasceus*" was an error. There is no such Latin word *violasceus* to my knowledge.

Protococcus violaceus was referred to the genus *Gloeocapsa* by Rabenhorst (1865: 41, as "*violacea*"), a generic placement it has since occupied. However, in Komárek & Anagnostidis (1999: 246) the spelling "*violascea*" was resurrected, and perhaps for this reason, the name *Gloeocapsa violacea* (Corda) Rabenhorst was not recognised as an illegitimate later homonym of *Gloeocapsa violacea* Kützing (Kützing 1847: 25, pl. 36: fig. IX; described from material collected by L. A. de Brébisson from tree-bark in the Paris area). Accordingly, a new name is required for the Corda species if it is to continue to be included in the genus *Gloeocapsa*.

***Gloeocapsa cordae* Guiry, *nom. nov. pro Gloeocapsa violacea* (Corda) Rabenhorst, *Fl. Europ. Alg.* II, 1865: 41, *nom. illeg., non Gloeocapsa violacea* Kützing, *Tab. Phyc.* 1, 25, pl. 36: fig. IZ, 1847.**

As no type material appears to have survived (Komárek & Anagnostidis 1999: 246, "typus = ?"), the name *Protococcus violaceus* Corda (and thus *Gloeocapsa cordae* Guiry as a replacement name) is here lectotypified by the illustrations in Sturm's unnumbered plate engraved from an illustration provided by Corda ('Corda *pinx.*'). It is likely that epitypification of gene-sequenced material will also be taxonomically advantageous.

Gloeocapsa cordae is found growing aerophytically on walls and rocks in Central Europe; reports from other areas require confirmation (Komárek & Anagnostidis 1999: 246).

Komárek, J. & Anagnostidis, K. (1999). Cyanoprokaryota. 1. Chroococcales. In: *Süßwasserflora von Mitteleuropa. Begründet von A. Pascher. Band 19/1.* (Ettl, H., Gärtner, G., Heynig, H. & Mollenhauer, D. Eds), pp. 1-548. Heidelberg & Berlin: Spektrum, Akademischer Verlag.

Kützing, F.T. (1847). *Tabulae phycologicae; oder, Abbildungen der Tange.* Vol. I, fasc. 3-5, pp. 27-36, pls 21-50. Nordhausen: Gedruckt auf kosten des Verfassers (in commission bei W. Köhne).

* https://en.wikipedia.org/wiki/August_Carl_Joseph_Corda

Rabenhorst, L. (1865). *Flora europaea algarum aquae dulcis et submarinae*. Sectio II. Algas phycochromaceas complectens. pp. 1-319, 71 figs. Lipsiae [Leipzig]: Apud Eduardum Kummerum.

Sturm, J. (1829). *Deutschlands flora in Abbildungen nach der Natur mit Beschreibungen*. II. Abtheilung. *Cryptogamie* Bd 5. Heft 18, Species 2, no page numbers, unnumbered coloured plates. Nürnberg: Gedruckt auf kosten des Herausgebers.