

The Taxonomicon

Systema Naturae 2000

Classification of
Class *Coccinodiscophyceae*
(algae)
down to Family

Compiled by Drs. S.J. Brands
Universal Taxonomic Services

18 Apr 2017

Systema Naturae 2000

- Class *Coscinodiscophyceae* -

[Kingdom *Chromista*: Phylum *Ochrophyta* - algae]

Class *Coscinodiscophyceae* Round & R.M. Crawford (1990) [paraphyletic] - radial centrics

- 1 Order *Paraliales* R.M. Crawford (1990)
 - 1 Family *Paraliaceae** R.M. Crawford (1988)
- 2.1 Subclass *Coscinodiscophycidae** Round & R.M. Crawford (1990)
 - 1 Order *Chrysanthemodiscales* Round (1990)
 - 1 Family *Chrysanthemodiscaceae** Round (1978)
 - 2.1 Order *Melosirales* R.M. Crawford (1990)
 - 1 Family *Melosiraceae** Kütz. (1844)
 - 2 Family *Stephanopyxidaceae* Nikolaev (1984)
 - 3 Family *Endictyaceae* R.M. Crawford (1990)
 - 4 Family *Hyalodiscaceae* R.M. Crawford (1990)
 - 2.2 Order *Aulacoseirales* R.M. Crawford (1990)
 - 1 Family *Aulacoseiraceae** R.M. Crawford (1990)
 - 3 Order *Orthoseirales* R.M. Crawford (1990)
 - 1 Family *Orthoseiraceae** R.M. Crawford (1990)
 - 4 Order *Coscinodiscales** Round & R.M. Crawford (1990)
 - 1 Family *Coscinodiscaceae** Kütz. (1844)
 - 2 Family *Rocellaceae* Round & R.M. Crawford (1990)
 - 3 Family *Aulacodiscaceae* (Schütt) Lemmerm. (1903)
 - 4 Family *Gossleriellaceae* Round (1990)
 - 5 Family *Hemidiscaceae* Hendey (1937)
 - 6 Family *Heliopeltaceae* H.L. Sm. (1872)
 - 5 Order *Ethmodiscales* Round (1990)
 - 1 Family *Ethmodiscaceae** Round (1990)
 - 6 Order *Stictocyclales* Round (1990)
 - 1 Family *Stictocyclaceae** Round (1978)
 - 7 Order *Asterolamprales* Round & R.M. Crawford (1990)
 - 1 Family *Asterolampraceae** H.L. Sm. (1872)
 - 8 Order *Arachnoidiscales* Round (1990)
 - 1 Family *Arachnoidiscaceae** Round (1990)
 - 9 Order *Stictodiscales* Round & R.M. Crawford (1990)
 - 1 Family *Stictodiscaceae** (Schütt) Simonsen (1972)
 - 2.2.1 Subclass *Rhizosoleniophycidae* Round & R.M. Crawford (1990)
 - 1 Order *Rhizosoleniales** P.C. Silva (1962)
 - 1 Family *Rhizosoleniaceae** De Toni (1890)
 - 2 Family *Pyxillaceae* (Schütt) Simonsen (1972)
 - 2 Order *Leptocylindrales* Round & R.M. Crawford (1990)
 - 1 Family *Leptocylindraceae** M. Lebour (1930)
 - 2.2.2 Subclass *Corethrophycidae* Round & R.M. Crawford (1990)
 - 1 Order *Corethrales** Round & R.M. Crawford (1990)
 - 1 Family *Corethraceae** M. Lebour (1930)

Citation: Brands, S.J. (ed.), 2017. Classification of Class *Coscinodiscophyceae* (algae) down to Family. In *Systema Naturae 2000. The Taxonomicon*. Universal Taxonomic Services, Zwaag, The Netherlands, 18 Apr 2017.

<<http://taxonomicon.taxonomy.nl/TaxonTree.aspx?src=0&id=75430>>

Sources

Medlin, L.K. 2016. Opinion: Can coalescent models explain deep divergences in the diatoms and argue for the acceptance of paraphyletic taxa at all taxonomic hierarchies?. *Nova Hedwigia* **102** (1-2), Feb 2016: 107-128.

Medlin, L.K. & Kaczmarska, I. 2004. Evolution of the diatoms: V. Morphological and cytological support for the major clades and a taxonomic revision. *Phycologia* **43** (3), 28 May 2004: 245-270.

Round, F.E., Crawford, R.M. & Mann, D.G. 1990. *The Diatoms - Biology & Morphology of the genera*. Cambridge University Press.

DISCLAIMER: This document is not published for nomenclatural purposes within the meaning of the International Code of Nomenclature for algae, fungi, and plants (ICN).