



Validation of some class names in use for algae

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Several class names currently in use in AlgaeBase (Guiry & Guiry 2023) and elsewhere are invalid under the ICN (Turland & al. 2018) and are here validated.

Coleochaetophyceae C.Jeffrey ex Guiry, *class. nov.*

Description: A new automatically typified class name. Multicellular, streptophyte green algae with prostrate and erect branched filaments, prostrate filaments branched often adherent to form coherent discs. Asexual reproduction by biflagellate, scaly zoospores produced singly, eyespots lacking. Sexual reproduction oogamous.

Type: *Coleochaete* Brébisson, 1844, *nom. cons.*

Registration: <http://phycobank.org/104107>

Note: *Coleochaetophyceae* C.Jeffrey, 1982, is an invalid designation (no description), and is here validated.

Klebsormidiophyceae C.Jeffrey ex Guiry, *class. nov.*

Description: A new automatically typified class name. Unbranched filaments, typically with a single pyrenoid for storage of starch reserves, and one or two chloroplasts against the inner side of each cell. Cell division by the formation of a cleavage furrow, but apparently neither a phragmoplast nor a cell plate is formed. Phragmoplast absent. Reproduction by asexual fragmentation, in which the filament fractures into pieces, each of which develops into a new filament. Sexual reproduction unknown.

Type: *Klebsormidium* P.C.Silva, Mattox & W.H.Blackwell, 1972.

Registration: <http://phycobank.org/104108>

Note: *Klebsormiophyceae* C.Jeffrey, 1982 is an invalid designation (no description), and is here validated.

Guiry, M.D. & Guiry, G.M. 2023. *AlgaeBase*. World-wide electronic publication, University of Galway. <https://www.algaebase.org>.

Jeffrey, C. (1982). Kingdoms, codes and classification. *Kew Bulletin* 37: 403-416.

Turland, N.J., Wiersema, J.H., Barrie, F.R., Greuter, W., Hawksworth, D.L., Herendeen, P.S., Knapp, S., Kusber, W.-H., Li, D.-Z., Marhold, K., May, T.W., McNeill, J., Monroe, A.M., Prado, J., Price, M.J. & Smith, G.F., editors (2018). *International Code of Nomenclature for algae, fungi, and plants (Shenzhen Code)* adopted by the Nineteenth International Botanical Congress Shenzhen, China, July 2017. *Regnum Vegetabile*, Vol. 159. pp. [i]–xxxviii, 1–253. Glashütten: Koeltz Botanical Books.