

**Validation of the designation “*Neolyngbya regalis*”, *nom. inval.* (Oscillatoriaceae, Cyanobacteria)**

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Lefler & al. (2021) described, illustrated and presented molecular evidence for the recognition of five taxa of marine homocytous filamentous cyanobacteria from South Florida (USA), including a new genus, two new species, and two new combinations. It has come to our attention that one of the proposed new combinations, “*Neolyngbya regalis* (Curren & Leong) Lefler, D.E.Berthold & Laughinghouse” is invalid since the basionym, “*Lyngbya regalis* Curren & Leong”, is an invalid designation as the authors designated a living culture as type, thus rendering the name invalid (ICN Art. 8.4; Turland & al. 2018). Art. 40.7 further specifies that only validly published names can serve as basionyms, thus “*Neolyngbya regalis*” as proposed by Lefler & al. (2021) is also an invalid designation.

We propose to rectify this as follows:

***Neolyngbya regalis*** Lefler, D.E.Berthold & Laughinghouse, *sp. nov.*

Replaced binary designations: “*Neolyngbya regalis* Lefler, D.E.Berthold & Laughinghouse” *nom. inval.*, in Lefler & al. *Journal of Phycology* 57: 101, pl. 15: fig. 8 A–G, 2021. “*Lyngbya regalis* Curren & Leong” *nom. inval.*, in Curren & Leong *Phytotaxa* 367: 122, pl. 4: fig 1 A–F; pl. 5: fig 2 A–K; pl. 6: fig 3 A–F.

Description and representative illustrations: Lefler & al. (2021: 101, pl. 15: fig 8 A–G).

Type locality: USA: Florida: Hollywood Beach, 26.035860, -80.115845. Epipsammic and epilithic mats in shallow marine waters.

Type: US 227641, preserved material in a metabolically inactive state of strain BLCC-M54.

Reference strain: BLCC-M54 (University of Florida/IFAS, FLREC, Davie, FL, USA) and ULC586 (Université de Liège, Liège, Belgium).

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Curren, E. & Leong, S. C. Y. (2018). *Lyngbya regalis* sp. nov. (Oscillatoriales, Cyanophyceae), a new tropical marine cyanobacterium. *Phytotaxa* 367: 120–132.

Lefler, F.W., Berthold, D.E. & Laughinghouse IV, H.D. (2021). The occurrence of *Affixifilum* gen. nov. and *Neolyngbya* (Oscillatoriaceae) in South Florida (USA), with the description of *A. floridanum* sp. nov. and *N. biscaynensis* sp. nov. *Journal of Phycology* 57: 92–110.

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., Monro, 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.