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Reinstatement of *Ceramothamnion* H.Richards (1901), a replacement name for the newly described *Stirkia* (Ceramiaceae, Rhodophyta)

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An exhaustive phylogenetic study of the Ceramiaceae (Ceramiiales) involving both morphological and molecular evidence was published recently by Barros-Barreto & al. (2023a; 2023b, a corrigendum). Some new genera (namely, *Pseudoceramium*, *Stirkia* and *Yoneshiguela*) were described, and some old names were reinstated (*Celaceras* and *Reinboldiella*). New circumscriptions were offered for the genera *Ceramium*, *Carpoblepharis*, *Herpochondria*, *Campylaephora*, and *Celaceras*.

One of the species assigned to the new genus *Stirkia* Barros-Barreto & Maggs in Barros-Barreto & al. 2023a: 27 was *S. codii* (H.Richards) Barros-Barreto & Maggs in Barros-Barreto & al. 2023b: [2], ≡ *Ceramothamnion codii* H.Richards, the generitype of the genus *Ceramothamnion* H.Richards (Richards 1901). As *Ceramothamnion* H.Richards is valid, legitimate, and available, and because of its nomenclatural priority, *Ceramothamnion* renders the genus *Stirkia* superfluous as currently circumscribed. Hence, species recently assigned to *Stirkia* by Barros-Barreto & Maggs (in Barros-Barreto & al. 2023a, b) now require transfer to *Ceramothamnion*. Should further phylogenetic studies show that *Ceramothamnion codii* H.Richards is unique from the type of *Stirkia*, *S. fujiana* (Barros-Barreto & Maggs) Barros-Barreto & Maggs [= *Ceramium fujianum* Barros-Barreto & Maggs], *Stirkia* remains available for use.

The type locality listed for *Ceramothamnion codii* by Barros-Barreto & Maggs in Barros-Barreto & al. 2023b: [2], Cooper's Island, Bermuda, was incorrect. Barros-Barreto & Maggs in Barros-Barreto & al. 2023b: [2] also cited a topotype in the exsiccata *Phycotheca Boreali-Americana* (*P.B.-A.*) no. 1899, Collins & al. (1912). Richards (1901: 265) cited only for the type material, "Collected in February on the south shore of the main island of Bermuda". It appears that authentic type material of *C. codii* was distributed as no. 845 in *P.B.-A.* Fasc. XVII (Collins & al. 1901, coll. H.M. Richards, Harris Bay, Bermuda, Feb. 1889, on *Codium tomentosum* Stackhouse [actually *C. decorticatum* (Woodward) M.Howe]).

Ceramothamnion brasiliensis (A.B.Joly) M.J.Wynne & C.W.Schneider, *comb. nov.*

Phycobank registration: <http://phycobank.org/103999>

Basionym: *Ceramium brasiliense* A.B.Joly 1957: 148–150, pl. 18: figs 1, 1a, 1b, 1c, 1d.

Homotypic synonym: *Stirkia brasiliensis* (A.B.Joly) Barros-Barreto & Maggs in Barros-Barreto & al. 2023a: 28.

Ceramothamnion codicola (J.Agardh) M.J.Wynne & C.W.Schneider, *comb. nov.*

Phycobank registration: <http://phycobank.org/104000>

Basionym: *Ceramium codicola* J.Agardh 1894: 23.

Homotypic synonym: *Stirkia codicola* (J.Agardh) Barros-Barreto & Maggs in Barros-Barreto & al. 2023a: 28.

Ceramothamnion coulteri (Harvey) M.J.Wynne & C.W.Schneider, *comb. nov.*

Phycobank registration: <http://phycobank.org/104001>

Basionym: *Microcladia coulteri* Harvey 1853: 209, pl. XXXIII [33]: fig. A.

Homotypic synonym: *Stirikia coulteri* (Harvey) Barros-Barreto & Maggs in Barros-Barreto & al. 2023a: 28.

Ceramothamnion dumosertum (R.E.Norris & I.A.Abbott) M.J.Wynne & C.W.Schneider, *comb. nov.*

Phycobank registration: <http://phycobank.org/104002>

Basionym: *Ceramium dumosertum* R.E.Norris & I.A.Abbott 1992: 456, figs 5–9.

Homotypic synonym: *Stirikia dumoserta* (R.E.Norris & I.A.Abbott) Barros-Barreto & Maggs in Barros-Barreto & al. 2023a: 28

Ceramothamnion fujianum (Barros-Barreto & Maggs) M.J.Wynne & C.W.Schneider, *comb. nov.*

Phycobank registration: <http://phycobank.org/104003>

Basionym: *Ceramium fujianum* Barros-Barreto & Maggs in Barros-Barreto & al., 2006: 915, figs 9, 10 (as ‘*fujianum*’).

Homotypic synonym: *Stirikia fujiana* (Barros-Barreto & Maggs) Barros-Barreto & Maggs in Barros-Barreto & al. 2023: 27 (as ‘*fujiana*’).

Ceramothamnion horridulum (P.C.Silva) M.J.Wynne & C.W.Schneider, *comb. nov.*

Phycobank registration: <http://phycobank.org/104004>

Basionym: *Ceramium horridulum* P.C.Silva 1972: 204.

Homotypic synonym: *Stirikia horridula* (P.C.Silva) Barros-Barreto & Maggs in Barros-Barreto & al. 2023b: [2].

Ceramothamnion inconspicuum (Zanardini) M.J.Wynne & C.W.Schneider, *comb. nov.*

Phycobank registration: <http://phycobank.org/104005>

Basionym: *Ceramium inconspicuum* Zanardini 1840: 136.

Homotypic synonym: *Stirikia inconspicua* (Zanardini) Barros-Barreto & Maggs in Barros-Barreto & al. 2023b: [2].

Ceramothamnion interruptum (Barros-Barreto & Maggs) M.J.Wynne & C.W.Schneider, *comb. nov.*

Phycobank registration: <http://phycobank.org/104006>

Basionym: *Stirikia interrupta* Barros-Barreto & Maggs in Barros-Barreto & al. 2023b: [2]

Homotypic synonym: *Ceramium interruptum* Setchell & N.L.Gardner 1924: 775, 776, pl. 27, fig. 58, *nom. illeg.*, non (J.E.Smith) C.Agardh (1817).

Ceramothamnion japonicum (Okamura) M.J.Wynne & C.W.Schneider, *comb. nov.*

Phycobank registration: <http://phycobank.org/104007>

Basionym: *Ceramium japonicum* Okamura 1896: 38, pl. 3: figs 24–28.

Homotypic synonym: *Stirikia japonica* (Okamura) Barros-Barreto & Maggs in Barros-Barreto & al. 2023a: 28.

Ceramothamnion julieae (A.Millar & P.G.Richards) M.J.Wynne & C.W.Schneider, *comb. nov.*

Phycobank registration: <http://phycobank.org/104008>

Basionym: *Ceramium julieae* A.Millar & P.G.Richards in Millar 2002: 494, figs 1–12 (as ‘*julieae*’).

Homotypic synonym: *Stirikia julieae* (A.Millar & P.G.Richards) (as A.Millar) Barros-Barreto & Maggs in Barros-Barreto & al. 2023b: [2].

Ceramothamnion pacificum (Collins) M.J.Wynne & C.W.Schneider, *comb. nov.*



Phycobank registration: <http://phycobank.org/104009>

Basionym: *Ceramium rubrum* var. *pacificum* Collins 1913: 125.

Homotypic synonym: *Stirikia pacifica* (Collins) Barros-Barreto & Maggs in Barros-Barreto & al. 2023a: 28.

Ceramothamnion riosmenae (B.Y.Won & T.O.Cho) M.J.Wynne & C.W.Schneider, *comb. nov.*

Phycobank registration: <http://phycobank.org/104010>

Basionym: *Ceramium riosmenae* B.Y.Won & T.O.Cho 2011: 290, figs 1–4.

Homotypic synonym: *Stirikia riosmenae* (B.Y.Won & T.O.Cho) Barros-Barreto & Maggs in Barros-Barreto & al. 2023b: [2].

Ceramothamnion sinicola (Setchell & N.L.Gardner) M.J.Wynne & C.W.Schneider, *comb. nov.*

Phycobank registration: <http://phycobank.org/104011>

Basionym: *Ceramium sinicola* Setchell & N.L.Gardner 1924: 773, pl. 25: figs 40, 41; pl. 75.

Homotypic synonym: *Stirikia sinicola* (Setchell & N.L.Gardner) Barros-Barreto & Maggs in Barros-Barreto & al. 2023a: 29.

Ceramothamnion vagans (P.C.Silva) M.J.Wynne & C.W.Schneider, *comb. nov.*

Phycobank registration: <http://phycobank.org/104012>

Basionym: *Ceramium vagans* P.C.Silva in Silva & al. 1987: 56.

Homotypic synonym: *Stirikia vagans* (P.C.Silva) Barros-Barreto & Maggs in Barros-Barreto & al. 2023a: 29 (as ‘vaga’).

Agardh, C.A. (1817). *Synopsis algarum Scandinaviae*. Adjuncta dispositione universali algarum. pp. [i]-xl + 135 pp. Lundae [Lund]: Ex officina Berlingiana.

Agardh, J.G. (1894). *Analecta algologica. Continuatio II. Lunds Universitets ÅrsSkrift, Andra Afdelningen, Kongl. Fysiografiska Sällskapets i Lund Handlingar* 30(7): 1–99, 1 pl.

Barros-Barreto, M.B., Jaramillo, M.A., Hommersand, M.H., Ferreira, P.C.G. & Maggs, C.A. (2023a). Phylogenetic analysis of the red algal tribe Ceramieae reveals multiple morphological homoplasies but defines new genera. *Cryptogamie, Algologie* 44(2): 13–33 [Appendices 34–58]. Published on 4 May 2023.

Barros-Barreto, M.B., Jaramillo, M.A., Hommersand, M.H., Ferreira, P.C.G. & Maggs, C.A. (2023b). *Cryptogamie, Algologie* 44 (2): 13-58. Corrigendum. Phylogenetic analysis of the red algal tribe Ceramieae reveals multiple morphological homoplasies but defines new genera [1–3]. Published on 29 August 2023.

Barros-Barreto, M.B., McIvor, L., Maggs, C.A. & Ferreira, P.C.G. (2006). Molecular systematics of *Ceramium* and *Centroceras* (Ceramieae, Rhodophyta) from Brazil. *Journal of Phycology* 42: 905–921.

Collins, F.S. (1913). The marine algae of Vancouver Island. *Bulletin of the Victoria Memorial Museum* 1: 99–137.

Collins, F.S. & Hervey, A.B. (1917). The algae of Bermuda. *Proceedings of the American Academy of Arts & Sciences* 53: 1–195.

Collins, F.S., Holden, I. & Setchell, W.A. (1901). *Phycotheca Boreali-Americana* (Exsiccata), *Algae of North America*. Fasc. XVII. Nos. 801–850. Malden, Massachusetts.

Collins, F.S., Holden, I. & Setchell, W.A. (1912). *Phycotheca Boreali-Americana* (Exsiccata), *Algae of North America*. Fasc. XXXVIII. Algae of Bermuda. Nos. 1851–1900. Malden, Massachusetts.

Harvey, W.H. (1853). *Nereis boreali-americana*: or, contributions towards a history of the marine algae of North America. Part II. Rhodospermeae. *Smithsonian Contributions to Knowledge* 5(5): [i–ii], [1]–258, pls XIII–XXXVI.



- Joly, A.B. (1957). Contribuição ao conhecimento da flora ficológica marinha da Baía de Santos e Arredores. *Boletim da Faculdade de Filosofia, Ciências e Letras da Universidade de São Paulo, Botânica* 14: 3–199, 3 figs, 19 plates, map, graph.
- Mazoyer, G. (1938). Les Céramiacées de l'Afrique du Nord. *Bulletin de la Société de l'Histoire naturelle de l'Afrique du Nord* 29: 317–331.
- Millar, A.J.K. (2002). *Ceramium juliae* [sic] (Ceramiaceae, Ceramiales), a new red algal species with distinctive spines from eastern Australia. *Australian Systematic Botany* 15: 493–500, 12 figs, 1 table.
- Norris, R.E. & Abbott, I.A. (1992). New taxa of Ceramiaceae (Rhodophyta) from Hawai'i. *Pacific Science* 46(4): 453–465.
- Okamura, K. (1896). Contribution to knowledge of the marine algae of Japan, II. *Botanical Magazine, Tokyo* 10(110, 111): 21–28, 33–40.
- Richards, H.M. (1901). *Ceramothamnion codii*, a new rhodophyceous alga. *Bulletin of the Torrey Botanical Club* 28: 257–265, pls 21, 22.
- Setchell, W.A. & Gardner, N.L. (1924). XXIX Expedition of the California Academy of Sciences to the Gulf of California in 1921. The marine algae. *Proceedings of the California Academy of Science, Fourth Series* 12(29): 695–949, pls 12–88, map
- Silva, P.C. (1972). Remarks on algal nomenclature. V. *Taxon* 21: 199–205.
- Silva, P.C., Meñez, E.G. & Moe, R.L. (1987). Catalog of the benthic marine algae of the Philippines. *Smithsonian Contributions to Marine Sciences* 27: [i–ii] iii–iv, 1–179, 2 figs, 1 table.
- Won, B.Y. & Cho, T.O. (2011). *Ceramium riosmenae* sp. nov. (Ceramiaceae, Rhodophyta): a new complete corticated species on *Gracilaria* from Baja California Sur, Mexico. *Algae* 26(4): 289–297.
- Zanardini, G. (1840) ['1839']. [Lettera] Alla direzione della Biblioteca Italiana. Species Algaram novae vel minus cognitae. *Biblioteca Italiana* 96: 131–137.