

New combinations in *Chara*, *Lychnothamnus*, and *Nitella* (Characeae, Charophyceae)

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Wood (1965) proposed new combinations and species ranks for *Chara diaphana* (Meyen) R.D.Wood, *C. drouetii* (R.D.Wood) R.D.Wood, *Lychnothamnus fasciculatus* (Imahori & R.D.Wood) R.D.Wood, *Nitella caroliniana* (Imahori & R.D.Wood) R.D.Wood, *N. macilenta* (A.Braun) R.D.Wood, *N. setchellii* (R.D.Wood) R.D.Wood, and *N. zollingeri* (A.Braun) R.D.Wood in the “Microspecies appendix” without referring to the places of valid publications of the basionyms (ICN Art. 41.5 of the Shenzhen Code, Turland & al. 2018), and without citations of basionyms rendering his nomenclatural acts invalid. Thus, these combinations and species statuses are validated here, thus fulfilling the intent of Wood.

Chara diaphana (Meyen ex Kützing) R.E.Romanov *stat. et comb. nov.*

Basionym: *Chara armata* [var.] *β. diaphana* Meyen ex Kützing 1857: 30, pl. 75, b, b', b''

≡ *Chara zeylanica* f. *diaphana* (Meyen) Zaneveld 1940: 211

≡ *Chara zeylanica* var. *diaphana* (Meyen) R.D.Wood 1962: 12

Lectotype (designated by Wood 1965: 246): USA: Sandwich Islands [Hawaiian Islands, probably Oahu], May 1831, Meyen (L).

Registration (of name): <http://phycobank.org/105570>

Chara drouetii (R.D.Wood) R.E.Romanov *stat. et comb. nov.*

Basionym: *Chara zeylanica* [var. *sejuncta*] f. *drouetii* R.D.Wood 1962: 12

Holotype (Wood 1962: 12): Brazil: Brazil, Ceará, Fortaleza Mun., Urubu, in shallow water of pond at base of dunes, 1 August 1935, F.[E.] Drouet 1351 (NY 00887661).

Registration (of name): <http://phycobank.org/105572>

Note: *Chara drouetii* was accepted as a species by several authors (e.g. Bicudo 1974, Alix & Scribailo 2011, Bueno & Bicudo 2021).

Lychnothamnus fasciculatus (Imahori & R.D.Wood) R.E.Romanov *stat. et comb. nov.*

Basionym: *Lychnothamnus barbatus* f. *fasciculatus* Imahori & R.D.Wood (in Wood 1962: 15)

Holotype (Wood 1962: 15): India: Oudh, Gonda, shallow lake: 1 ft., 9 February 1923, G.O. Allen, No. 32. Herb. G.O. Allen (NY 01089195).

Isotype: India: Oudh, Gonda, shallow lake: 1 ft., 9 February 1923, G.O. Allen, No. 32. Herb. G.O. Allen (NY 02318187, in fluid).

Registration (of name): <http://phycobank.org/105574>

Note: Long non-contiguous primary tubes of stem cortex extending over nearly whole internodes, and well-developed spine-cells, up to 2 mm length and in clusters of 1–3 (Wood 1962) are good evidence for keeping this taxon as a species, because populations of *Lychnothamnus barbatus* (Meyen) Leonhardi in Europe, Asia, Australia, and North America consist of plants with rudimentary stem cortex, and rudimentary solitary spine-cells only (Wood 1965, Han & Li 1994, Naz & al. 2011, Karol & al. 2017, Casanova & Karol 2023, Schubert & al. 2024, Efimov & al. 2025).

Nitella caroliniana (Imahori & R.D.Wood) R.E.Romanov *stat. et comb. nov.*

Basionym: *Nitella translucens* [var. *axillaris*] f. *caroliniana* Imahori & R.D.Wood (in Wood 1962: 22)

Holotype (Wood 1962: 22): USA: Florida, near Gainesville, Bouleware Spring, September 1958, [E.S. Ford, D. Ward and] E. West (Herbarium of R.D. Wood NY 00887750). The cited collectors are E.S. Ford, D. Ward & E. West, but only E. West is indicated on the label (Algae Herbarium Portal 2025).

Isotype (?): USA: Florida, near Gainesville, Boulware Spring, September 1958, E.S. Ford, D. Ward and E. West (NY 02285996, stored in fluid). This specimen is not given a name according to the Algae Herbarium Portal (2025).

Registration (of name): <http://phycobank.org/105576>

Nitella macilenta (A.Braun) R.E.Romanov stat. et comb. nov.

Basionym: *Nitella tricuspis* [var.] γ. *macilenta* A.Braun 1868: 878

Type: not designated.

Registration (of name): <http://phycobank.org/105578>

Nitella setchellii (R.D.Wood) R.E.Romanov stat. et comb. nov.

Basionym: *Nitella tricellularis* f. *setchellii* R.D.Wood 1962: 22

Holotype (Wood 1962: 22): New Zealand: N. Zealand, [1883], H. Hamilton, No. 40a. T. F. Allen, Char. Amer. Exs. (NY).

Isotype (Wood 1962: 22): New Zealand: N. Zealand, 1883, H. Hamilton, No. 40a. T. F. Allen, Char. Amer. Exs. (L 4096651).

Registration (of name): <http://phycobank.org/105580>

Nitella zollingeri (A.Braun) R.E.Romanov stat. et comb. nov.

Basionym: *Nitella polyglochis* [var.] β. *zollingeri* A.Braun (in A.Braun & Nordstedt) 1882: 74

≡ *Nitella furcata* var. *zollingeri* (A.Braun) Zaneveld 1940: 93

Holotype (Braun & Nordstedt 1882: 74): Indonesia: im Flusse Utan auf der Insel Sumbawa (eine Insel zwischen Java und Timor), [August 1847], *Zollinger plant. Javan. No. 3386* (B? not located, probably lost).

Lectotype: (here designated): Indonesia: in fl. Utan insl. Sumbawa a fl. Noewans, [August 1847], [Zollinger] *Pl. Jav. Zoll. n. 3386* (L 4104544).

Registration (of name): <http://phycobank.org/105583>

Registration (of type): <http://phycobank.org/105582>

Note: The holotype of *N. zollingeri* appears to be lost. Zaneveld (1940: 94) cited a part of original material stored in L. It is designated here as a lectotype.

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