New combinations in Neopyropia J.Brodie & L.-E.Yang (Bangiaceae, Rhodophyta) from Japan

Norio Kikuchi, Coastal Branch of Natural History Museum and Institute, Chiba, Katsuura, Chiba, 299-5242, Japan (correspondence: kikuchin@chiba-muse.or.jp)

Kyosuke Niwa, Department of Marine Biosciences, Tokyo University of Marine Science and Technology, Minato, Tokyo, 108-8477, Japan

Recently, Yang et al. (2020) proposed four new genera and the resurrection of Porphyrella with species transferred from the genus Pyropia (Bangiales). Two commercially important species Pyropia tenera (Kjellman) N.Kikuchi, Miyata, M.S.Hwang & H.G.Choi and P. yezoensis (Ueda) M.S.Hwang & H.G.Chi used for Nori cultivation in Japan were transferred to the genus Neopyropia J.Brodie & L.-E.Yang in this publication. However, two vigorously growing infraspecific taxa with elongated blades, P. tenera var. tamatsuensis (A.Miura) N.Kikuchi, Niwa & Nakada and P. yezoensis f. narawaensis N.Kikuchi, Niwa & Nakada were not transferred to Neopyropia.

In the same article, Pyropia kuniedae (Kurogi) M.S.Hwang & H.G.Chi was not transferred although it clearly is referable to Neopyropia (Clade III) based on the phylogenetic trees in Sutherland et al. (2011) and Yang et al. (2020).

Accordingly, we propose the following new combinations:

Neopyropia tenera var. tamatsuensis (A.Miura) N.Kikuchi & Niwa, comb. nov.
Lectotype: Miura 2035 (Fig. 1), Herbarium of Miura, Tokyo University of Marine Science and Technology, designated by Kikuchi et al. (2015: 381, fig. 1, individual on left, selected from syntypes).

Neopyropia yezoensis f. narawaensis (N.Kikuchi, Niwa & Nakada) N.Kikuchi & Niwa, comb. nov.
Holotype: Miura 2665 (Fig. 2), Herbarium of Miura, Tokyo University of Marine Science and Technology (Kikuchi et al. 2015: 381, fig. 2).

Neopyropia kuniedae (Kurogi) N.Kikuchi & Niwa, comb. nov.
Holotype: SAP 044803 (Fig. 3, Yoshida 1998: 444-445).
Remarks: Sutherland et al. (2011, p. 1144) described ‘Holotype: SAP 044803, collected by M. Kurogi, 22 Dec. 1952, Ishihama-Katsurajima, Matsushima Bay, Miyagi Pref., Japan.’ The collection date written in the label on the holotype sheet is ‘Dec. 22, 1952’. However, the date written on the small sheet on which the holotype specimen is mounted is ‘Dec. 24, 1952’. The same specimen with the holotype is listed in Kurogi (1961) as fig. A of plate IX with the caption ‘A Dec. 24, 1952 at Ishihama’. Therefore, the correct date of collection of the holotype specimen is 24 Dec. 1952.

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28. [in Japanese]
Fig.1. Lectotype (left individual) of *Neopyropia tenera* var. *tamatsuensis* (A.Miura) N.Kikuchi & Niwa. Miura 2035, Herbarium of Miura, Tokyo University of Marine Science and Technology.
Fig. 2 Holotype of *Neopyropia yezoensis* f. *narawaensis* (N.Kikuchi, Niwa & Nakada) N.Kikuchi & Niwa. Miura 2665, Herbarium of Miura, Tokyo University of Marine Science and Technology.
Fig. 3. Holotype (below individual) of *Neopyropia kuniedae* (Kurogi) N.Kikuchi & Niwa, SAP 044803.