

[Note]

## Validation of the Generic Name *Palisada* (Rhodomelaceae, Rhodophyta)

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The name *Palisada*, which recently was proposed but not validly published for a new genus in the *Laurencia* complex, is validated by the provision of a Latin diagnosis. Relevant nomenclatural changes for several species of *Chondrophyucus* are included.

**Key Words:** *Chondrophyucus*, *Laurencia* complex, Nomenclatural change, *Palisada*, validation

The *Laurencia* complex (Rhodophyta) has been separated into three genera: *Laurencia* Lamouroux, *Chondrophyucus* (Tokida et Saito) Garbary et Harper, and *Osmundea* Stackhouse (Nam *et al.* 1994, Garbary and Harper 1998, Nam 1999). Recently, on the basis of phylogenetic analysis, it was proposed to elevate *Laurencia* sect. *Palisadae* Yamada (1931) to generic level, and several species of *Chondrophyucus* were transferred to the genus (Nam 2006). However, the generic name *Palisada* was not validly published because it was not accompanied by a Latin diagnosis or a reference to a previously published Latin diagnosis. All combinations proposed in Nam (2006) were also invalidly published because the generic name was invalid (ICBN, Art. 43). Therefore, a Latin diagnosis for the genus is now provided to effect valid publication of the generic name. The combinations are given again in Table 1.

### **PALISADA NAM GEN. NOV.**

Cellula apicali depressus apicali ramuli; cortex extense facientes; segmentum axiale omne ramuli cum cellulis pericentralibus duabus; cellula pericentrali primus cum positio infra trichoblasti; spermatangium cum typus trichoblasti; faciens ramuli spermatangium e uam ramuli lateralis dual in cellula suprabasicus trichoblasti; segmentum procarpic cum cellula pericentrali quaterni vel quinque; faciens tetrasporangium e cellula pericentrali peculiaris; segmentum axiale tetrasporangium cum cellulas pericentrales steriles unam; cellula pericentrali

secunda fertiles.

Apical cell always sunk in apical pit of branchlet; central axis recognizable only near apical cell; forming extensive cortex; vegetative axial segments with two pericentral cells; first pericentral cell with underneath position of trichoblast; spermatangial development with trichoblast type (Nam *et al.* 1994); spermatangial branches produced from one of two laterals on suprabasal cell of trichoblasts; procarp-bearing segments with four or five pericentral cells; auxiliary cells normally formed after fertilization; tetrasporangial production from particular pericentral cells; tetrasporangial axis with one sterile pericentral cell and the second pericentral cell being fertile.

Type species: ***Palisada robusta* Nam nom. nov.** (*Laurencia palisada* Yamada)

In transferring *Laurencia palisada* Yamada (1931: 196) to *Palisada*, a new epithet is necessary to avoid tautonymy. The epithet recalls the robust thallus.

Holotype: SAP (13883) (Masuda *et al.* 1998)

Synonym: *Chondrophyucus palisadus* (Yamada) Nam (1999: 463)

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**Table 1.** New combinations in *Palisada*, mainly based on Pacific species***Palisada robusta* nom. nov.**

Holotype: SAP 13883. Replaced name: *Laurencia palisada* Yamada (1931: 196, figs c, d, pl. 4, fig. a). Synonym: *Chondrophyucus palisadus* (Yamada) Nam (1999: 463).

***Palisada capituliformis* (Yamada) comb. nov.**

Holotype: SAP 13880. Basionym: *Laurencia capituliformis* Yamada (1931: 217, pl. 14). Synonym: *Chondrophyucus capituliformis* (Yamada) Garbary et Harper (1998: 194).

***Palisada concreta* (Cribb) comb. nov.**

Holotype: BRIU 877.18, Herb. Dept. Bot. Univ. Queensland, Saint Lucia, Australia. Basionym: *Laurencia concreta* Cribb (1983: 116). Synonym: *Chondrophyucus concretus* (Cribb) Nam (1999: 463).

***Palisada cruciata* (Harvey) comb. nov.**

Type: TCD (Trav. set 209), Herb. Harvey (Saito & Womersley, 1974). Basionym: *Laurencia cruciata* Harvey (1855: 544). Synonym: *Chondrophyucus cruciatus* (Harvey) Nam (1999: 463).

***Palisada dinhii* (Masuda et Kogame) comb. nov.**

Holotype: SAP (062606 ♀). Basionym: *Laurencia dinhii* Masuda et Kogame (1998: 205, figs 8-26). Synonym: *Chondrophyucus dinhii* (Masuda et Kogame) Nam (1999: 463).

***Palisada flagellifera* (J. Agardh) comb. nov.**

Type: No. 36604-36606, Herb. J. Agardh LD (Yamada 1931: 197). Basionym: *Laurencia flagellifera* J. Agardh (1852: 747). Synonym: *Chondrophyucus flagelliferus* (J. Agardh) Nam (1999: 463).

***Palisada gemmifera* (Harvey) comb. nov.**

Holotype: TCD. Basionym: *Laurencia gemmifera* Harvey (1853: 73-74, pl. XVIII, B). Synonym: *Chondrophyucus gemmiferus* (Harvey) Garbary et Harper (1998: 194).

***Palisada intermedia* (Yamada) comb. nov.**

Holotype: SAP 13876. Basionym: *Laurencia intermedia* Yamada (1931: 191, pl. 1, fig. c, pl. 2). Synonym: *Chondrophyucus intermedius* (Yamada) Garbary et Harper (1998: 195).

***Palisada iridescens* (Wynne et Ballantine) comb. nov.**

Holotype: Wynne 8278 (= Ballantine 2675). Basionym: *Laurencia iridescens* Wynne et Ballantine (1991: 395-397, figs 1-11). Synonym: *Chondrophyucus iridescens* (Wynne et Ballantine) Garbary et Harper (1998: 195).

***Palisada jejuna* (C.K. Tseng) comb. nov.**

Holotype: Tseng 2565, Herb. Tseng. Basionym: *Laurencia jejuna* C.K. Tseng (1943: 189, pl. 1, figs 1-3). Synonym: *Chondrophyucus jejunus* (C.K. Tseng) Nam (1999: 463).

***Palisada longicaulis* (C.K. Tseng) comb. nov.**

Holotype: Tseng 2579, Herb. Tseng. Basionym: *Laurencia longicaulis* C.K. Tseng (1943: 194, pl. 2, figs 1, 2). Synonym: *Chondrophyucus longicaulis* (C.K. Tseng) Nam (1999: 463).

***Palisada maris-rubri* (Nam et Saito) comb. nov.**

Holotype: N002(= PHYT227). Basionym: *Laurencia maris-rubri* Nam et Saito (1995: 162, figs 22-29). Synonym: *Chondrophyucus maris-rubri* (Nam et Saito) Garbary et Harper (1998: 195).

***Palisada papillosa* (C. Agardh) comb. nov.**

Holotype: Herb. Forsskal. No. 886. Basionym: *Chondria papillosa* C. Agardh (1822: 344). Synonym: *Chondrophyucus papillosus* (C. Agardh) Garbary et Harper (1998: 195).

***Palisada parvipapillata* (Tseng) comb. nov.**

Holotype: Tseng 2813. Basionym: *Laurencia parvipapillata* Tseng (1943: 204-205, pl. IV). Synonym: *Chondrophyucus parvipapillatus* (Tseng) Garbary et Harper (1998: 195).

***Palisada perforata* (Bory) comb. nov.**

Type: No. ?, Herb. Thuret in Paris (Yamada 1931: 193). Basionym: *Fucus perforatus* Bory (1803: 503, pl. 5, fig. 1). Synonym: *Laurencia perforata* (Bory) Montagne (1840: 155). Synonym: *Chondrophyucus perforatus* (Bory) Nam (1999: 463).

***Palisada poiteaui* (Lamouroux) comb. nov.**

Type: CN. Basionym: *Fucus poiteaui* Lamouroux (1805: 63, pl. xxxi: figs 2, 3). Synonym: *Laurencia poiteaui* (Lamouroux) M.A. Howe (1918: 518). Synonym: *Chondrophyucus poiteaui* (Lamouroux) Nam (1999: 463).

***Palisada surculigera* (C.K. Tseng) comb. nov.**

Holotype: Tseng 293, Herb. Tseng. Basionym: *Laurencia surculigera* C.K. Tseng (1943: 192, pl. 1, figs 4, 5). Synonym: *Chondrophyucus surculigerus* (C.K. Tseng) Nam (1999: 463).

***Palisada tumida* (Saito et Womersley) comb. nov.**

Holotype: ADU A42777. Basionym: *Laurencia tumida* Saito et Womersley (1974: 846, figs 5E, F, 26, 27). Synonym: *Chondrophyucus tumidus* (Saito et Womersley) Garbary et Harper (1998: 195).

***Palisada yamadana* (M.A. Howe) comb. nov.**

Holotype: No. ?, New York Bot. Gard. and United St. Nat. Museum. Basionym: *Laurencia yamadana* M.A. Howe (1934: 37, fig. 4). Synonym: *Chondrophyucus yamadanus* (M.A. Howe) Nam (1999: 463).

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