

Bryophyte flora of the Huon Peninsula, Papua New Guinea. LXXIV. *Cololejeunea* (Lejeuneaceae, Hepaticae)

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Together with the previously reported nine *Aphanolejeunea* A. Evans species, 63 species (69 taxa) of *Cololejeunea* (Spruce) Schiffn. are now reported from Western Melanesia (New Guinea and Solomon Islands), of which 12 taxa are new to science: *C. altimontana* Pócs, *C. flavovittata* Pócs, *C. kolombangarae* Pócs and its subsp. *sepikense* Pócs, *C. magnifica* Pócs, *C. stellaris* Pócs, *C. streimannii* Pócs and its subsp. *solomonensis* Pócs, *C. subalpina* Pócs, *C. timoi* Pócs, *C. touwii* Pócs, and *C. zantenorum* Pócs. The *Cololejeunea trichomanis* (Gottsche) Steph. – *C. cordiflora* Steph. complex is clarified and the new combinations of *Cololejeunea angustibracteata* (Schiffn.) Pócs and *C. trichomanis* subsp. *cordiflora* (Steph.) Pócs are made. *C. androphylla* E.W. Jones is synonymised with *C. wightii* Steph., *C. arfakiana* Eggers & Pócs with *C. quadridentata* (S. Hatt.) Grolle, *C. floccosa* (Lehm. & Lindenb.) Schiffn. var. *auriculata* Tixier with *C. floccosa* (Lehm. & Lindenb.) Schiffn. var. *aurita* Benedix, *C. indica* Pandé & Misra and *C. spinosa* (Horik.) Pandé & Misra with *C. haskarliana* (Lehm. & Lindenb.) Schiffn., *C. inuena* (Steph.) Hatt. with *C. obliqua* (Nees & Mont.) Schiffn. and *C. serrulata* Steph. with *C. trichomanis* (Gottsche) Steph. subsp. *cordiflora* (Steph.) Pócs. Two new subgenera of the genus *Cololejeunea* are introduced: *Metzgeriopsis* (K. I. Goebel) Pócs and *Incalejeunea* Tixier ex Pócs. Most of the new species occur in the high altitude montane rain forests, moss forests or even at tree line forests. Five species are new for Western Melanesia, 20 taxa (30,4 %) endemic to Western Melanesia. The taxa fall into nine distribution types, of which endemics are the largest group, followed by SE Asian element with 15 taxa (21,7 %), Palearctic with nine taxa (11,6 %), Asian-Oceanian with eight taxa (11,6 %), and Malesian and Palearctic with six taxa (8,7 % each). Illustrations are provided for the new taxa as well as for some few other critical taxa. Altitudinal ranges of 17 taxa on the Huon Peninsula are mapped.

Key words: *Aphanolejeunea*, *Chondriolejeunea*, *Cololejeunea*, Huon Peninsula, Indonesia, *Metzgeriopsis*, new taxa, Papua New Guinea, Solomon Islands, Western Melanesia