

Family Trichocoleaceae (Hepaticae) and genus *Neckeropsis* (Musci) new to Hong Kong^{*}

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Abstract The family Trichocoleaceae (Hepaticae) and genus *Neckeropsis* (Musci) are reported as new additions to the bryophyte flora of Hong Kong, based on the species *Trichocolea tomentella* (Ehrh.) Dum. s. lat. and *Neckeropsis obtusata* (Mont.) Fleisch. in Broth.

Key words *Trichocolea tomentella*. s. lat.; *Neckeropsis obtusata*; new records; Hong Kong

A detailed study on part of collections made by the authors and Mr. Choi Kin-hung in a joint investigation organized by the South China Institute of Botany, Chinese Academy of Sciences and the Kadoorie Farm & Botanic Garden in 1995 in Hong Kong has yielded two new records, the family Trichocoleaceae (Hepaticae) and genus *Neckeropsis* (Musci), based on the species *Trichocolea tomentella* (Ehrh.) Dum. s. lat. and *Neckeropsis obtusata* (Mont.) Fleisch. in Broth.. These taxa are believed to be new to Hong Kong as they are not listed in the updated checklist of bryophytes of Hong Kong (Zhang & Lin 1997) and So & Iwatsuki (1996) and So & Zhu (1996a, 1996b, 1997). The collectors, Pang-juan Lin, Li Zhang, Lawrence Chau, Wicky Lee and Choi Kin-hung, are abbreviated as LZCLT. The studied specimens are deposited in the herbarium of the South China Institute of Botany, Chinese Academy of Sciences, Guangzhou (IBSC) and the herbarium of the Kadoorie Farm & Botanic Garden, Hong Kong (KFBG).

1. Trichocoleaceae Nakai (Hepaticae)

The family Trichocoleaceae was erected by Nakai in 1943. Grolle (1983) included three genera in it, i. e. *Eotrichocolea*, *Leiomitra* and *Trichocolea*, and only the latter one occurred in China. Gao & Cao (1988) recognized 3 species, i. e. *T. merrilliana* Steph., *T. pluma* (Reinw. et al.) Mont. and *T. tomentella* (Ehrh.) Dum. from China. Piippo (1984) combined *T. pluma* with *T. tomentella* s. lat. and she (1990) included *T. tomentella* s. lat. and *T. merrilliana* in her Chinese catalogue. Here we follow the treatment of Piippo (1984, 1990) and report *T. tomentella* s. lat. new to Hong Kong as well as the genus *Trichocolea* and the fam-

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ily Trichocoleaceae.

Trichocolea tomentella (Ehrh.) Dumort. *s. lat.* Sylloge Jung. Europ. Indig. 67. 1831.

Plant medium-sized, slightly greenish to whitish, regularly bi- or tri-pinnate branched, more or less flattened, forming loose turfs. Leaf insertion succubously transverse. Lamina (the basal undivided portion) 1~4 cells high, thick- or thin-walled, oblong to rectangular. Cilia patent from lamina, somewhat erect, 3~5 lobed near the base, 5~8 lobed in the end. Cells of cilia cylindrical or linear, thin-walled, hyaline. Without cilia on the surface of lamina.

Specimens examined: Tai Mo Shan, LZCLT 2034 (on humus of tree base in forest, alt. 680 m), LZCLT 2064 (on rocks in forest, alt. 550 m). A patch of the plant has been cultivated in the greenhouse of the Kadoorie Farm & Botanic Garden.

Distribution: Chiuu (Anhui, Guizhou, Hainan, Heilongjiang, Hong Kong, Shaanxi, Taiwan, Xinjing, Xizang, Yunnan, Zhejiang); Bhutan, West Irian, Papua New Guinea, Caroline Is., Samoa, Fiji, Europe, Japan, Indonesia, Australia and North America.

2. *Neckeropsis* Reichdt.

Neckeropsis, a genus of the family Neckeraceae, mainly distributed in subtropical and tropical areas, with about 30 species worldwide. According to Redfeam, Jr. et al. (1996), 9 species occurred in China. Here we report *Neckeropsis obtusata* as well as the genus from Hong Kong for the first time.

Neckeropsis obtusata (Mont.) Fleisch. in Broth., Nat. Pfl. ed. 2, 11: 187. 1925.

Plant medium-sized, slightly dark green, frequently irregular branched, leaf apex rounded or occasionally rounded-truncate, not acuminate, lamina usually asymmetrically shallow lingulate, undulations 2~4, costa reach mid-leaf, margins nearly smooth, auricles lacking.

Specimens examined: Kadoorie Farm, vicinity of the Main Offices, LZCLT 400 (on rocks in forest, alt. 170 m), LZCLT 715 (on rocks by stream in forest, alt. 160 m), LZCLT 721 (on rocks in forest, alt. 190 m), LZCLT 722 (on rocks in forest, alt. 190 m).

Distribution: China (Guangdong, Guizhou, Hong Kong, Taiwan, Zhejiang); Japan; Vietnam.

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References

- 1 Gao C-H, Cao T. A study of *Trichocolea* Dum., *Trichocoleopsis* Okam. and *Neotrichocolea* Hatt. (Hepaticae) in China. *Invest. Stud. Nat.*, 1988, **8**: 24~37
- 2 Piippo S. Bryophyte flora of the Huon Peninsula, Papua New Guinea. III. *Ann. Bot. Fennici*, 1984, **21**: 21~48
- 3 Piippo S. Annotated catalogue of Chinese Hepaticae and Anthocerotae. *J. Hattori Bot. Lab.*, 1990, **68**: 1~192
- 4 So M L, Iwatsuki Z. *Luisierella barbula* (Pottiaceae) new to Hong Kong. *Hikobia*, 1996, **12**: 23~24
- 5 So M L, Zhu R L. Studies on Hong Kong *Cheilolejeunea* with two species new to China. *Trop. Bryol.* 1996, **12**: 5~10
- 6 So M L, Zhu R L. Studies on Hong Kong Hepatics II. Notes on some newly recorded Liverworts from Hong Kong. *Trop. Bryol.*, 1996, **12**: 11~19
- 7 So M L, Zhu R L. *Cylindrocolea tagawae* (Kitag.) Schust. and *Plagiochila tjibodensis* Schiffn., newly found in Hong Kong. *Lindbergia*, 1997, **22**: 47~48
- 8 Zhang L, Lin P J. A checklist of bryophytes from Hong Kong. *J. Hattori Bot. Lab.*, 1997, **81**: 307~326

香港苔藓植物新纪录——绒苔科和拟平藓属

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摘 要 研究了部分中国科学院华南植物研究所和香港嘉道理农场暨植物园于 1995 年两次联合采集的标本, 本文报道了绒苔科和拟平藓属为香港苔藓植物新纪录, 分别基于绒苔(广义)和钝叶拟平藓。

关键词 绒苔(广义); 钝叶拟平藓; 新纪录; 香港