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Radiaticorollarus, a new replacement name for *Actinostephanus* (Gesneriaceae, Didymocarpoideae)

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Abstract: *Actinostephanus* F. Wen, Y. G. Wei & L. F. Fu is a monotypic genus in Gesneriaceae endemic to Guangdong, China. It is named for its radiate corolla lobes, the relatively rare character among Gesneriaceae. Some scholars have suggested that the name *Actinostephanus* is easily confused with the generic name of the extinct fossil phytoplankton *Actinostephanos* Khursevich, and proposed that *Actinostephanus* should be treated as a later homonym of *Actinostephanos*. According to the *International Code of Nomenclature of Algae, Fungi and Plants (Shenzhen Code)* (2018), we here propose a new name *Radiaticorollarus* Y. G. Wei, F. Wen & Lei Cai for the later homonym *Actinostephanus* F. Wen, Y. G. Wei & L. F. Fu, and treat *Actinostephanus enpingensis* F. Wen, Y. G. Wei & Z. B. Xin as a synonym of the new combination *Radiaticorollarus enpingensis* (F. Wen, Y. G. Wei & Z. B. Xin) F. Wen, Y. G. Wei & Lei Cai.

Key words: *Actinostephanus*, *Actinostephanus enpingensis*, Gesneriaceae, new name, new combination

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辐冠苣苔属 (苦苣苔科) 一新替代名称 ——*Radiaticorollarus* Y. G. Wei, F. Wen & Lei Cai

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摘要: 辐冠苣苔属为中国广东特有苦苣苔科单型属,因其具有苦苣苔科中相对比较罕见的辐射状花冠裂片而得名。有学者提出因其属名 *Actinostephanus* F. Wen, Y. G. Wei & L. F. Fu 和已灭绝的化石浮游植物属名 *Actinostephanos* Khursevich 极其相似而易于混淆,应处理为晚出同名。依据 2018 年《国际藻类、菌物和植物命名法规(深圳法规)》,该文为该晚出同名拟定了一个新名称,即 *Radiaticorollarius* Y. G. Wei, F. Wen & Lei Cai,并将其属下辐冠苣苔 *Actinostephanus enpingensis* F. Wen, Y. G. Wei & Z. B. Xin 处理为新组合 *Radiaticorollarius enpingensis* (F. Wen, Y. G. Wei & Z. B. Xin) F. Wen, Y. G. Wei & Lei Cai 的异名。

关键词: 辐冠苣苔属, 辐冠苣苔, 苦苣苔科, 新名称, 新组合

The genus *Actinostephanus* F. Wen, Y. G. Wei & L. F. Fu was named for its radiate corolla lobes, the relatively rare character among Gesneriaceae. It includes a single species, *A. enpingensis* F. Wen, Y. G. Wei & Z. B. Xin. The genus name, “*Actinostephanus*”, is derived from Greek, with the prefix “*Actino-*” coming from ἀκτίς (*Aktís*, meaning “ray” or “radiate”) and “*stephanus*” from Στέφανος (*Stéphanos*, meaning “crown”). This type of corolla characteristic is rare in Chinese Gesneriaceae. Before the discovery of this new genus, only three species, belonging to two different genera, have radially spreading corollas: *Bournea sinensis* Oliv., *B. leiophylla* (W. T. Wang) W. T. Wang & K. Y. Pan ex W. T. Wang, and *Oreocharis esquirolii* H. Lév.

However, Khursevich (1989) had named a kind of extinct fossil phytoplankton *Actinostephanos* Khursevich (1989: 487) using a homological name. Despite the difference of a single letter between the two names, “u” and “o”, which is sufficient to differentiate them, Deshmukh (2022: 1127) believed they are extremely similar and prone to confusion and should be treated as homonyms, thus requesting a binding decision that the names *Actinostephanus* Wen et al. and *Actinostephanos* Khursevich are easily confused and should be treated as homonyms. This request was recommended by The Nomenclature Committee for Algae (Anderson, 2023) and approved by General Committee.

Therefore, according to Article 53.1 of the *International Code of Nomenclature for algae, fungi, and plants (Shenzhen Code)* (Turland et al., 2018), a new name, *Radiaticorollarius* Y. G. Wei, F. Wen & Lei Cai, is proposed herein for the later homonym *Actinostephanus* F. Wen, Y. G. Wei & L. F. Fu. *Radiaticorollarius* is composed of two Latin words, “*Radiati-*” deriving from “*Radius*”, meaning radiate, and “*corollarius*” from “*corolla*”, meaning corolla. This replacement name retains the same meaning as the original *Actinostephanus*, referring to the unique species in this genus known to have a campanulate corolla tube and radially symmetrical corolla lobes, distinct from all other known genera in China.

Taxonomic treatment

Radiaticorollarius Y. G. Wei, F. Wen & Lei Cai, **nom. nov.**

Replaced Synonym: — *Actinostephanus* F. Wen,

Y. G. Wei & L. F. Fu, *PhytoKeys* 193: 95, 2022, *nom. illeg.*, non *Actinostephanos* Khursevich, *Bot. Zhurn.* 74: 487 1989 (Algae, Bacillariophyta). **TYPE:** — *Radiaticorollarius enpingensis* (F. Wen, Y. G. Wei & Z. B. Xin) F. Wen, Y. G. Wei & Lei Cai (≡ *Actinostephanus enpingensis* F. Wen, Y. G. Wei & Z. B. Xin).

Radiaticorollarius enpingensis (F. Wen, Y. G. Wei & Z. B. Xin) F. Wen, Y. G. Wei & Lei Cai, **comb. nov.**

Basionym: — *Actinostephanus enpingensis* F. Wen, Y. G. Wei & Z. B. Xin, *PhytoKeys* 193: 96. 2022. **TYPE:** — CHINA. Guangdong Province: Enping City, Naji Town, Qixingkeng provincial natural reserve, growing on the cliffs or slopes of montane yellow soil and sandy loam near a stream, 22°11.1808' N, 112°5.841' E, ca. 153 m, 19 May 2021, *Chen Xiaoyun & Liang Junjie* 210519 – 01 (holotype: IBK, isotypes: IBK).

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