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SCHIZONEURINA, A NEW GENERIC NAME OF RHODYMENIOPHYTA

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Summary

The generic name *Schizoneura* (J Agardh) J Agardh (1898) (*Rhodymeniophyta*—*Delesseriaceae*) is preoccupied by the name of fossil horsetails, *Schizoneura* W.P. Schimp. et Moug. (1844), which is a type of a distinct family of equisetophytes, the *Schizoneuraceae* H.J. Haas (1887). Although the generic name of fossil plants is illegitimate being a late nomenclatural synonym of another morphogenus of equisetophyte foliage, *Convallarites* Brongn. (1828), the current proposal by Doweld (2003) to conserve the fossil name against its earliest nomenclatural synonym, necessitates the change of the generic name of algae due to the lack of possibility to conserve it too. A new generic name, *Schizoneurina* Doweld, is proposed instead of *Schizoneura* (J. Agardh) J. Agardh, two combinations, *S. subcostata* (J. Agardh) Doweld **comb. nov.** and *S. hookeri* (Lyale) Doweld **comb. nov.** are made.

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SCHWEITZERIA, A NEW NAME FOR IRANIA SCHWEITZER (FOSSIL GYMNOSPERMAE)

A.B. Shipunov, D.D. Sokoloff

SCHWEITZERIA — НОВОЕ НАЗВАНИЕ ДЛЯ IRANIA SCHWEITZER (ИСКОПАЕМЫЕ GYMNOSPERMAE)

А.Б. Шипунов, Д.Д. Соколов

The genus *Irania* Schweitzer was described to include a single Jurassic fossil species of *Gymnospermae* (Schweitzer, 1977). *I. hermaphroditica* Schweitzer is unusual among the majority of gymnosperms (excepting *Bennettitales* and to some extent *Gnetales*) in having bisexual (monoclinous) fructifications. Due to this feature, the genus *Irania* was discussed in the context of the problem of angiosperm origin (Schweitzer, 1977; Meyen, 1987; Krassilov, 1989, 1997).

Unfortunately, the name *Irania* Schweitzer is illegitimate as a later homonym of *Irania* Hadač et Chrtek (1973) (*Cruciferae*). Therefore, it is necessary to propose a substitute name for *Irania* Schweitzer as well as to publish a new family name. Although it was proposed that *Irania* is so distinct that it should be recognised as a member of separate family or even

order (Schweitzer, 1977), the name *Iraniaceae* has not been validly published.

Schweitzeriaceae Shipunov et D.D. Sokoloff, **fam. nov.**

Fructifications monoclinous. Spirally arranged microsporangio-phores bear two pendant sporangia. Megasporangio-phores paired. Ovules are enclosed in bilateral capsules.

Т y п у с: *Shweitzeria* Shipunov et D.D. Sokoloff, **gen. nov.**

Schweitzeria Shipunov et D.D. Sokoloff, **gen. nov.** — *Irania* Schweitzer, 1977, *Palaeontographica*, B, *Paläophytol.* **161**: 126, nom. illeg., non *Irania* Hadač et Chrtek, 1973, *Acta Univ. Carol., Biol.* **4**: 248.

In the basal part of the fructification microstrobiles are located in axils of cataphylls. Microstrobi-

les cylindrical, with sporangiophores arranged in a dense spiral. Each sporangiophore is T-shaped and bears two pendant microsporangia. In the distal part of the fructification capsules bearing ovules are arranged in pairs on an elongated axis. Mature capsules become cordate.

Typus and species unica: *Schweitzeria hermaphroditica* (Schweitzer) Shipunov et D.D. Sokoloff, **comb. nova.** — Basion.: *Irania hermaphroditica* Schweitzer, 1977, *Palaeontographica*, B, Paläophytol. 161: 127.

Phylogenetic relationships of *Schweitzeria* are not yet well established. *Irania* was regarded as a relative of *Leptostrobales* (*Czekanowskiales*) (Schweitzer, 1977; Meyen, 1987) and *Dirhopalostachyaceae* or *Kialenia* (Krassilov, 1997).

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