

Outlineoffungi.org - Note 1363 *Botryosorus*

Web-links: [Index Fungorum](#), [Facesoffungi](#), [Mycobank](#), [GenBank](#)

Botryosorus Jing X. Ji, Okane & Kakish.

The monotypic genus *Botryosorus* was introduced by Ji et al. (2023) with *B. deformans* (Berk. & Broome) Jing X. Ji, Okane & Kakish as the type species. *Blastospora betulae* was phylogenetically distinct from both *Bl. itoana* and *Bl. smilacis*, as well as from other genera. *Botryosorus*, gen. nov., and *Botryosorus deformans*, comb. nov., were used to classify *Bl. betulae* based on recent International Code of Nomenclature decisions/recommendations/requirements (Ji et al. 2023). Morphologically, *Botryosorus* differs from *Blastospora* by the spermogonial type and wall thickness of urediniospores and teliospores (Cummins & Hiratsuka 2003, Ji et al. 2023). *Botryosorus deformans* has been reported from several hosts in Japan, such as *Thuja occidentalis* L., *Thuja standishii* (Gordon) Carr., *Thujopsis dolabrata* (L. f.) Sieb. & Zucc. var. *dolabrata*, and *Thujopsis dolabrata* var. *hondae* Mak. (Berkeley 1878, Shirai 1889, Kusano 1904, 1908, Ito 1950, Hiratsuka et al. 1992, Kakishima et al. 1993). *Botryosorus* has been classified in *Zaghouaniaceae* (*Pucciniales*, *Pucciniomycetes*, *Basidiomycota*) based on multi-locus phylogenetic analysis of combined ITS and LSU sequences and distinct morphology (Ji et al. 2023).

References

- Berkeley MT. 1878 – Contribution to the botany of H.M. “Challenger” 1874. Botanical Journal of the Linnean Society 16, 38–54.
- Cummins GB, Hiratsuka Y. 2003 – Illustrated genera of rust fungi. 3rd ed. St. Paul (Minnesota): American Phytopathological Society.
- Hiratsuka N, Sato S, Katsuya K, Kakishima M et al. 1992 – The rust flora of Japan. Tsukuba (Japan): Tsukuba-shuppankai.
- Ito S. 1950 – Mycological flora of Japan. Vols. 2, no. 3. Tokyo (Japan): Yokendo. (In Japanese).
- Ji JX, Okane I, Zhang YF, Fan YS et al. 2023 – Phylogeny and taxonomy of three species of *Blastospora* (Pucciniales) from East Asia. Mycologia 115(4), 561–570.
- Kakishima M, Imazu M, Kaneko S. 1993 – Life-cycle connection between *Caeoma deformans* and *Blastospora betulae*. Transactions of the Mycological Society of Japan 34, 187–193.
- Kusano S. 1904 – Monsterous witches’ brooms of conifers. Botanical magazine Tokyo 18, 211–214. (In Japanese).
- Kusano S. 1908 – Development of *Caeoma deformans*. Botanical magazine Tokyo 22, 237. (In Japanese).
- Shirai M. 1889 – Witches’ broom of *Thujopsis dolabrata*. Botanical magazine Tokyo 3, 329–241. (In Japanese).

Entry by

Hai-Jun Zhao, Center of Excellence in Fungal Research, Mae Fah Luang University, Chiang Rai 57100, Thailand.

School of Science, Mae Fah Luang University, Chiang Rai 57100, Thailand.

Wei Dong, Innovative Institute for Plant Health / Key Laboratory of Green Prevention and Control on Fruits and Vegetables in South China, Ministry of Agriculture and Rural Affairs, Zhongkai University of Agriculture and Engineering, Guangzhou 510225, China

(Edited by **Maryam Tavakol Noorabadi & Subodini N. Wijesinghe**)

Published online 31 May 2024