

Outlineoffungi.org - Note 1200 *Intumescentia*

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Intumescentia H.L. Si, R.L. Chang, T. Bose & Y.C. Wang

Si et al. (2023) introduced *Intumescentia* under *Teratosphaeriaceae* to accommodate four endolichenic species based on morphology and phylogenetic analyses using LSU, ITS, ACT, CAL, RPB2, and TEF1 sequence data. This genus was typified by *Intumescentia tinctorum* H.L. Si, R.L. Chang, T. Bose & Y.C. Wang. Other species of the new genus *Intumescentia* including *I. ceratinae* H.L. Si, R.L. Chang, T. Bose & Y.C. Wang, *I. pseudolivetorum* H.L. Si, R.L. Chang, T. Bose & Y.C. Wang, *Intumescentia tinctorum* H.L. Si, R.L. Chang, T. Bose & Y.C. Wang, and *Intumescentia vitii* H.L. Si, R.L. Chang, T. Bose & Y.C. Wang. The type species was isolated from *Parmotrema tinctorum* in China. In the genus *Intumescentia*, the hyphae are septate, multi-guttulate, and branched. Conidial cells are catenulate, 3-8 or more in a chain, and caducous. The conidia are columnar to doliiform-shaped, and dark brown. The sexual morph was not seen. Phylogenetically, *Intumescentia* formed a sister clade with *Acidiella* and *Xenopenidiella* using LSU, ITS, ACT, CAL, RPB2, and TEF1 sequence data. The genus *Intumescentia* exhibits notable morphological differences when compared to closely related genera *Acidiella*, *Araucasphaeria*, and *Xenopenidiella*. In contrast to *Intumescentia*, *Acidiella* and *Xenopenidiella* produce distinct mitospores. *Acidiella* forms puffed and truncated arthroconidia, while *Xenopenidiella* generates branched chains of verruculose conidia that are ellipsoid to cylindrical-oblong and brown. *Araucasphaeria* is distinguished by its production of sexual spores. Fungi from the *Acidiella*, *Araucasphaeria*, and *Xenopenidiella* genera have a faster growth rate than *Intumescentia* (Si et al. 2023).

Reference

Si H, Wang Y, Liu Y, Li S, Bose T et al. 2023 – Fungal Diversity Associated with Thirty-Eight Lichen Species Revealed a New Genus of Endolichenic Fungi, *Intumescentia* gen. nov. (*Teratosphaeriaceae*). *Journal of Fungi* 9(4), 423.

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Published online 8 May 2024