

Outlineoffungi.org - Note 802 *Anthostomella*

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Anthostomella Sacc.

Saccardo (1875) introduced *Anthostomella* with three species *A. limitata* Sacc. *A. tomicoides* Sacc., and *A. perfidiosa* Sacc, without designating a type. Different studies have accepted *A. limitata* ([Eriksson 1966](#)) or *A. tomicoides* ([Francis 1975](#), [Lu and Hyde 2000](#)) as the generic type, emphasizing the generic description provided by Saccardo (1875). Eriksson ([1966](#)) interpreted Saccardo's (1875) description and prioritized the non-appendiculate over the appendiculate ascospores. Only *A. limitata* has non-appendiculate ascospores from the original three collections and is accepted as the generic type ([Eriksson 1966](#)). Francis ([1975](#)) argued that the original generic description is based on both appendiculate and non-appendiculate ascospore morphologies, and the lack of a clypeus in *A. limitata* is not compatible with *Anthostomella*. However, *A. limitata* has a dark clypeus ([Lu and Hyde 2000](#)). Following Lu and Hyde ([2000](#)) with the lectotype of *A. tomicoides*, Daranagama et al. ([2015](#)) accepted *A. tomicoides* as the generic type. Furthermore, Daranagama et al. ([2015](#)) provided a reference specimen for appendiculate ascospore-bearing *A. formosa*, and the clade was accepted as *Anthostomella* sensu stricto. Samarakoon et al. ([2022](#)) revised the phylogeny with the addition of newly generated sequences and amendments to the morphological descriptions and showed that anthostomella-like taxa form distinct clades from the *Xylariaceae*. Morphologies similar to those of *A. limitata* have been found in the "*Anthostomella helicofissa* Daranag clade." In addition, the previously accepted *Anthostomella sensu stricto* clade is therefore uncertain ([Daranagama et al. 2015](#)). However, some of the taxa, previously identified as anthostomella-like taxa, are now accepted in different families as having polyphyletic characters (e.g., *Entosordaria* Speg, *Occultitheca* Rogers & Y.M. Ju, *Pyriformiascoma* Daranag, and *Spirodecospora* Lu). As a result, recent phylogenies clearly show that *Anthostomella* species form distinct clades apart from *Xylariaceae*, but within the order *Xylariales*. Future research will necessitate the designation of the *Anthostomella* type species, using morphology and phylogeny to determine the exact generic placement and higher rank of the genus.

Reference

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Published online 24 August 2023