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# Phylogenetic and taxonomic revision of *Lopadostoma*

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**Source:** Persoonia - Molecular Phylogeny and Evolution of Fungi, Volume 32, June 2014, pp. 52-82(31)

**Publisher:** Naturalis Biodiversity Center

**DOI:** <https://doi.org/10.3767/003158514X679272>



previous article



view table of contents

next article



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Abstract

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Citations

Supplementary Data

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Metrics

Suggestions

The genus *Lopadostoma* (Xylariaceae, Xylariales) is revised. Most species formerly assigned to *Lopadostoma* do not belong to the genus. Twelve species are herein recognised, of which two are only known from morphology. Ten species, of which six (*L. americanum*, *L. fagi*, *L. insulare*, *L. lechatii*, *L. meridionale* and *L. quercicola*) are newly described, are characterised by both morphology and DNA phylogeny using LSU, ITS and *rpb2* sequences. Morphologically, ecologically and phylogenetically *Lopadostoma* is a well-defined genus comprising exclusively species with pustular pseudostroma development in bark of angiospermous trees. *Phaeosperma aylanthei*, *Phaeosperma dryophilum* and *Sphaeria linoasperma* are combined in *Lopadostoma*. *Lopadostoma gastrinum* is neotypified and *L. turgidum* is lecto- and epitypified. Species with asci and ascospores similar to those of *Lopadostoma* but having perithecia immersed in wood, particularly those of *Lopadostoma* subg. *Anthostomopsis* have been determined to be unrelated to the genus. DNA data confirm that *Anthostoma* is unrelated to *Lopadostoma*. Its type and currently only confirmed species *Anthostoma decipiens* belongs to *Diatrypaceae*. DNA data also show that *L. pouzarii* and *Barrmaelia macrospora* are unrelated to *Lopadostoma*. A commentary is provided for names in *Lopadostoma* and those names in *Anthostoma* that may be putative species of *Lopadostoma* based on their protologues. *Anthostoma insidiosum* is an older name for *Anthostomella* (*Diatrype*) *adusta*.

**Keywords:** ANTHOSTOMA; ANTHOSTOMELLA; ASCOMYCOTA; DIATRYPACEAE; ITS; LSU; PHAEOSPERMA; PYRENOMYCETES; RPB2; XYLARIACEAE; XYLARIALES

**Document Type:** Research Article

Publication date: 2014年6月30日

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