
Foliicolous *Mycosphaerella* spp. and their anamorphs on *Corymbia* and *Eucalyptus*

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The genus *Eucalyptus* is host to numerous species of *Mycosphaerella*, several of which are only known as anamorphs, and for which no *Mycosphaerella* state is known. In this study new *Mycosphaerella* teleomorph states are described for *Nothostrasseria dendritica* and *Trimmatostroma excentrica*. Two new hyphomycete genera are introduced. Of these, *Cibiessia* gen. nov., with three new species accommodates an arthroconidial synanamorph of *Readeriella*. *Phaeothecoidea* gen. nov. is described for species with brown, thick-walled endoconidia. Four additional new species of *Mycosphaerella* are introduced with several new anamorph species described in *Dissoconium*, *Phaeophleospora*, *Pseudocercospora*, *Ramularia* and *Stenella*. Furthermore, an epitype is designated for *Mycosphaerella molleriana*. This study also presents new *Eucalyptus* host and distribution records including *M. mexicana* from Hawaii, *M. ohnowa* from Australia, *M. acaciigena* from Australia and Venezuela, *M. heimii* from Venezuela and Thailand, *M. konae* from Venezuela, and *M. thailandica* from Thailand.

Key words: *Cibiessia*, *Dissoconium*, DNA sequence comparisons, *Mycosphaerella*, *Phaeotheca*, *Phaeophleospora*, *Pseudocercospora*, *Ramularia*, *Septoria*, *Stenella*, systematics.

Introduction

The genus *Mycosphaerella* includes more than 3000 species names (Aptroot, 2006), and several thousand anamorphs that lack known teleomorph

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