



TCCE ICMBio / VALE
COMPENSAÇÃO ESPELEOLÓGICA

“Identifying Fungal Species in Brazilian Caves: *Bipolaris* and *Curvularia* in the Monumento Natural da Serra da Ferrugem, Minas Gerais”, apresentado pela doutora Simone Albino Paes.



Identifying fungal species in Brazilian caves: *Bipolaris* and *Curvularia* in the Monumento Natural da Serra da Ferrugem, Minas Gerais

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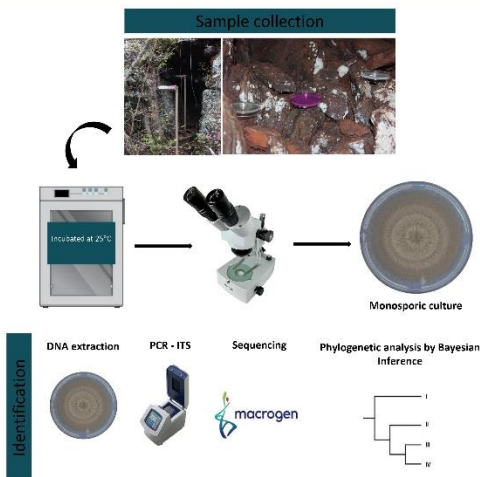
INTRODUCTION

The genera *Bipolaris* and *Curvularia* (Pleosporaceae, Pleosporales) belong to one of the largest and most phylogenetically diverse classes of ascomycetous fungi, the *Dothideomycetes*. Caves are natural underground cavities with environmental characteristics distinct from surface habitats, such as low temperature, high humidity, absence of light, and, consequently, photosynthetic activity. Fungi play an important role in the cave environment, such as decomposition of plant material, transformation of important elements such as phosphorus and nitrogen, and serving as food for cave fauna.

OBJECTIVE

This study aimed to identify three fungal isolates obtained from two ferruginous cavities (CSF 0804 and CMN16) in the Monumento Natural da Serra da Ferrugem, Conceição do Mato Dentro, Minas Gerais.

MATERIAL AND METHODS



RESULTS

Two *Bipolaris* isolates grouped into a clade distinct from the known species and represent a possible new species. However, the delimitation of the *Curvularia* isolate was ambiguous and further analyses with other molecular markers are necessary to accurately identify this isolate.

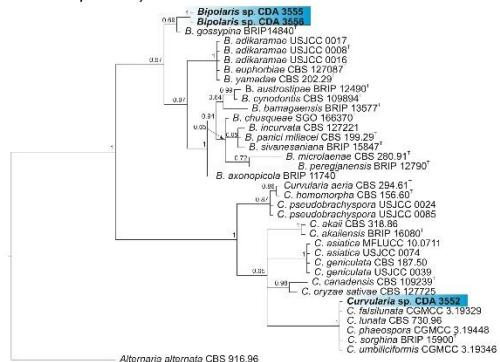


Figure 1. Phylogenetic tree obtained by Bayesian Inference analysis using the internal transcribed spacer (ITS) of the rDNA region. Bayesian posterior probabilities are next to the nodes. The isolates of this study are highlighted in bold. The tree was rooted with *Alternaria alternata* CBS 916.96. T = Type material.

CONCLUSION

This study presents a taxonomical novelty and contributes to the knowledge about the fungal diversity in Brazilian caves.

ACKNOWLEDGEMENTS



Termo de compromisso



Coordenação Executiva



Gestão Operacional

