



TCCE ICMBio / VALE
COMPENSAÇÃO ESPELEOLÓGICA

“Uma provável nova espécie de *Hyphopichia* leveduriforme do Monumento Natural da Serra da Ferrugem, Minas Gerais”, apresentado pela doutora Simone Albino Paes.



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A probable new species of yeast-like *Hyphopichia* from the Monumento Natural da Serra da Ferrugem, Minas Gerais

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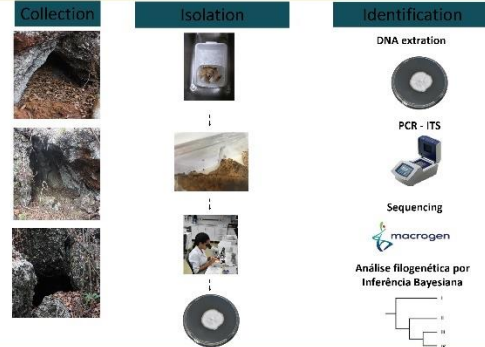
INTRODUCTION

Hyphopichia is a yeast-like genus of fungi in the family *Debaryomycetaceae* (*Saccharomycetales*, *Ascomycota*). Diverse yeast-like species have been found in a wide range of habitats. The genus *Hyphopichia* has been isolated from shrimp, insects, the gut of insects, decayed wood, fruits after harvest, and in the cave environment. Caves can harbor a great diversity of microorganisms, including filamentous fungi and yeasts, owing to their favorable environmental characteristics, such as low to moderate temperatures and high humidity.

OBJECTIVE

This study aimed to characterize an isolate obtained from a leaf litter sample from a ferruginous cavity (CSF 0804) in the Monumento Natural da Serra da Ferrugem, Conceição do Mato Dentro, Minas Gerais.

MATERIAL AND METHODS



RESULTS

The phylogenetic analysis revealed that isolate CDA 3837 did not grouped with any known species.

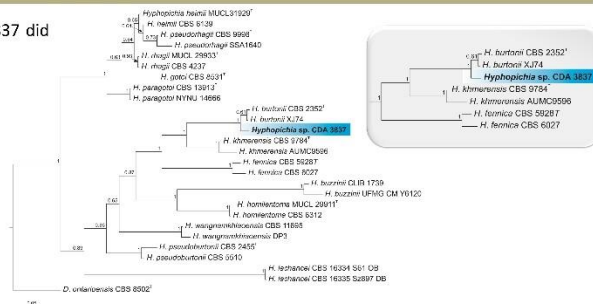


Figure 1. Phylogenetic tree obtained by Bayesian inference analysis using the internal transcribed spacer (ITS) of the rDNA region. Bayesian posterior probabilities values are indicated next to the nodes. The isolate from this study is highlighted in bold. The tree was rooted with *Danielozyma ontarioensis*. T = Type of material.

CONCLUSION

The fungal diversity found in caves is mostly unknown, and represents a biotechnological potential to be discovered. This is the first report of this yeast-like fungus in ferruginous caves in Brazil. A possible new species will be proposed in the future following the International Code of Nomenclature for Algae, Fungi and Plants.

ACKNOWLEDGEMENTS



Termo de compromisso



Coordenação Executiva



Gestão Operacional

