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Diversity and classification of Hyphomycetes in the tropics

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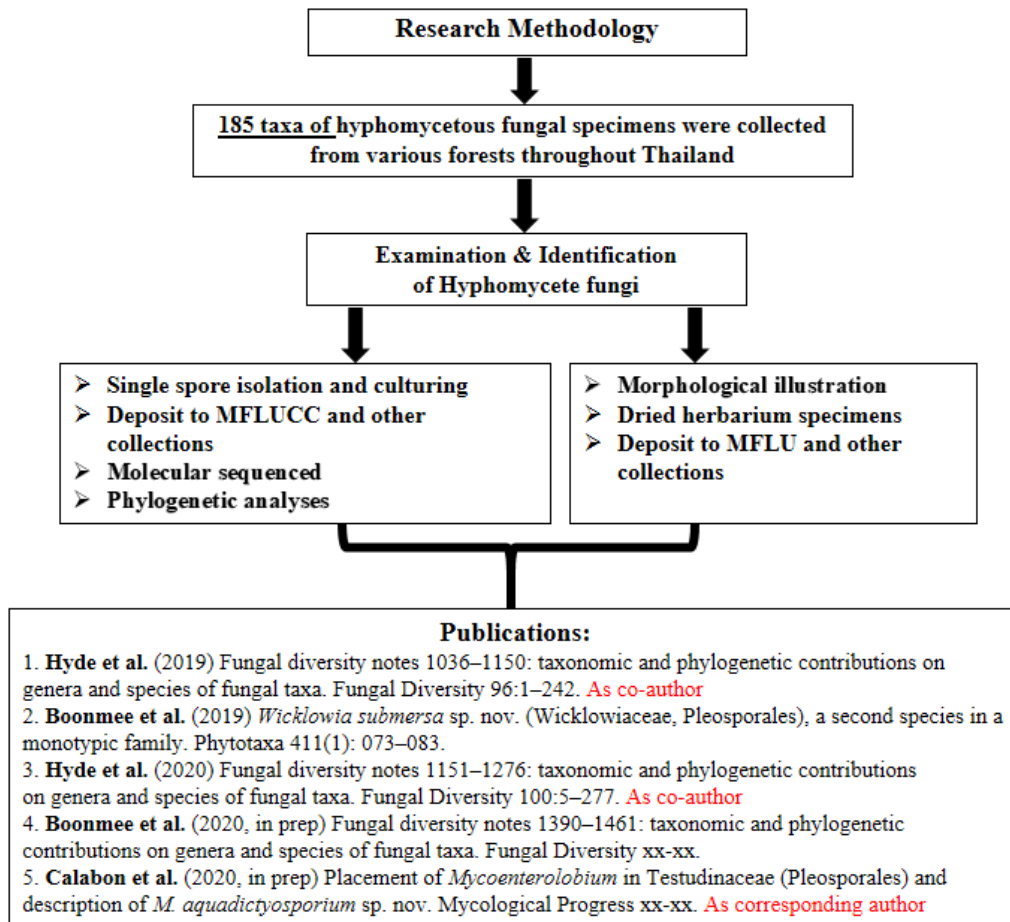
Abstract:

During October 2018 to May 2019, fungal collection, morphological identification, culture isolation and deposition, molecular sequencing and phylogenetic analyses of different genera of hyphomycetes (e.g. *Acrodictys*, *Dictyosporium*, *Digitodesmium*, *Monodictys* and *Moromyces*) have been done. Fresh specimens were collected from various sites throughout Thailand: northern (Chiang Rai, Chiang Mai, Phayao, Phrae, Lampang and Nan), northeastern (Phitsanulok, Loei, Nong Bua Lamphu, Mukdahan and Nakhon Phanom) and southern (Surat Thani, Nakhon Si Thammarat and Krabi). Morphological examinations and identifications of hyphomycetes, including their sexual morphs, were carried out from the fresh specimens. One hundred eighty-five (185) taxa were collected and of these, 100 taxa were isolated and cultured. Fifty morphologically distinct species were sequenced for phylogenetic identification. We provide morphological descriptions and generate phylogenetic analysis trees of five new species and five new records for various publications, including contributions in SCI journals on related species discovered during this project. Twenty-two taxa of hyphomycetes and their sexual morphs will be contributed in Fungal Diversity Notes 1390–1461.



MMS5 e-Conference

Graphical abstract



The research scope of the TRG 6180001 project