

THE DIVERSITY OF MACROFUNGI FROM THE SOUTHERN PART OF ULU MUDA FOREST RESERVE COMPLEX



Patahayah, M., Mohd Salleh, S., Abriza M.Z., Kamarul Hisham M., Ahmad Syazwan S., Wan Muhammad Azrul W. A., & Mohd Farid, A.

Mycology and Pathology Branch, Forest Health and Conservation Program, Forest Biodiversity Division, Forest Research Institute, Malaysia, 52109 Kajang Selangor, Malaysia
Email: patahayah@fri.mys.gov.my

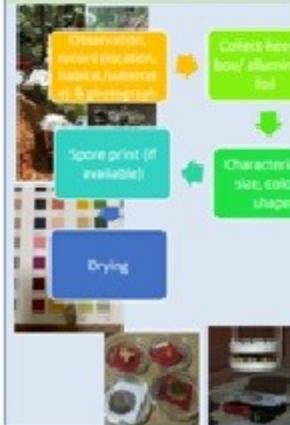


 Introduction

The Ulu Muda Forest Reserve is the largest of the numerous forest reserves in the Ulu Muda region, which is situated in the eastern section of Kedah, close to the Malaysia-Thailand border. The Ulu Muda Forest Reserve has a variety of vegetation types, including limestone vegetation, lowland dipterocarp forest, hill dipterocarp forest, and upper dipterocarp forest. One of the most fascinating natural sites in Kedah is the forest, which has a total area of 46,720 hectares when adding its water catchment area. It has long been acknowledged for its significance in protecting biodiversity. There are records of the plant and fauna diversity in Ulu Muda Forest Reserve from the previous Scientific Expedition in 2003 (Junit & Panditamun, 2004), but none on macrofungi. Therefore, under the project "Microbes and insects as biological indicators for the stability of ecosystems, forest health and conservation of selected species" brings a glimpse to document some the macrofungi diversity presence from this forest. This data will serve as a baseline for the region's fungal diversity and aid in a better understanding of Ulu Muda Forest Reserve's rich biological diversity.

Materials and Methods

Field survey: Compt. 28,33A, 40

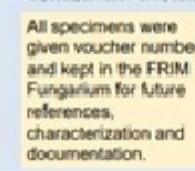


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Identification

-available keys and references (Lee, 2012; Lee et al., 2011; Perng et al., 2007).



All specimens were given voucher numbers and kept in the FRIM Fungarium for future references, characterization and documentation.



Conclusion

In addition to their enormous medical potential, wild macrofungi perform a vital ecological function in the healthy maintenance of ecosystems, particularly those of forest ecosystems; hence it is imperative to investigate, record, and preserve this natural wealth. Ulu Muda Forest Reserve in Kelah has a great diversity of macrofungi, according to the study. However, additional research should be done to have a fuller picture of the variety of macrofungi and microfungi in this forest reserve, where many more fungus are still unexplored.

• Results

Most of the collections were from the Basidiomycete group with 33 families, while only four families were from Ascomycete group i.e. Chorioactidaceae, Ophiocordycipitaceae, Sarcoscyphaceae and Xylariaceae. Ascomycete members also known as the sac fungi. One of famous brain manipulating fungus also have been recorded in *Lituus Munda* Forest Reserve (Muhibullah et al., 2016).

Polyporaceae, with 36 species is the highest macrofungi collected and this family was reported to have the highest diversity in Malaysia (Ujang and Jones, 2001). Members of this family are mostly saprophytic fungi or wood rotting fungi that grown on dead trees or fallen timber.

The other families such as Russulaceae, Amanitaceae, Boletaceae, and Sclerodermataceae are important fungi forming symbiotic relationships with trees in the forest that called mycorrhiza (Watling and Lee, 2005; Watling and Lee, 2006).



REFERENCE



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