

Thesis Title	Diversity of Macrofungi in the Family <i>Polyporaceae</i> in Doi Suthep Pui National Park	
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Abstract

A study on the diversity of macrofungi in the Family *Polyporaceae* at Doi Suthep Pui National Park was conducted during October 1996-May 1997 covering 3 forest types i.e. Laem Son which is a pine forest, Huey Kok Ma which is a primary evergreen forest and Montha Than waterfall which is a deciduous dipterocarp-oak association forest. The temperature and relative humidity (RH) of each habitat were recorded. Three hundred and eleven specimens were collected and examined in the laboratory for their morphology and microscopic structures under the microscope. Species identification was done by comparing various features macroscopically and microscopically with references and keys.

It was found that the temperature at Laem Son forest during the study period was 16-26°C and the RH was 61-90%. Seventy five specimens of *Polyporaceae* consisting of 5 genera and 11 species were found in this forest. At Huey Kok Ma the temperature during the study period was 18-27°C and the RH was 68-100%. One hundred and nineteen specimens of *Polyporaceae* consisting of 7 genera and 13 species were found in this forest. At Montha Than waterfall the temperature during the study period was 22-29°C and the RH was 70-90%. Forty seven specimens in *Polyporaceae* consisting of 5 genera and 7 species were found in this forest. Altogether 241 specimens belonging to 9 genera 18 species were identified. Fifty five specimens were *Microporus xanthopus* ; 34 specimens were *Microporus affinis* ; 29 specimens were *Microporus luteus* ; 23 specimens were *Fomitopsis feei* ; 18 specimens were *Fomitopsis rhodophaeus* ; 14 specimens were *Hexagonia tenuis* ; 9 specimens each were *Daedaleopsis sinensis*, *Fomitopsis pseudopetchii*, *Fomitopsis dochmii*, *Hexagonia dermatiphora*, *Lenzites elegans* ; 6 specimens were *Hexagonia umbrinella* ; 5 specimens were *Lenzites acuta* ; 4 specimens were *Microporus vernicipes* ; 3 specimens were *Pycnoporus sanguineus* ; 2 specimens each were *Laetiporus sulphureus*, *Polyporus grammacephalus* ; and 1 specimen was *Flavodon flavus*.