

Thesis Title: Studies of natural mushroom in
Phukhieo wildlife sanctuary

Name: Soanupa Kongamol

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Thesis Supervisory committee :

Preecha Klingsorn, Ph. D.
Dhanee Phanichapol, M. Sc.
Manop Chompoochan, B. Sc.

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Abstract

Studies of the morphology and ecology of mushroom in subclass Basidiomycotina at Phukhieo wildlife sanctuary were performed during May 1987 to September 1988. These studies cover plain, slope and high slope of 5 different forest: Tropical Rain forest, Dry Evergreen forest, Dry Dipterocarp forest, Pine Dipterocarp forest and grass land. The 30 genera and 65 species of mushrooms were found mostly in the Dry Dipterocarp forest, Dry Evergreen forest, Tropical Rain forest and Pine Dipterocarp forest on plain area in May to August. The optimum temperature and relative humidity for their growth are 28-30°C and 85% respectively. In addition the slope and the forest types are influential to distribution of genus *Russula* but no influence on genus *Polyporus*. The cellulolytic fungi is most group of mycelia that could grown on