

Title : Diversity and Taxonomy Identification of Edible Wild Mushroom in Local Markets of Chiang Mai and Lamphun.

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Major : Biology

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ABSTRACT

Wild mushroom have been an important source of income for local communities in Northern Thailand and serve as a nutritious food source for forest-dependent people. Beyond their economic value, mushrooms are macrofungi that contribute significantly to forest biodiversity. They play crucial roles in decomposing organic material and recycling nutrient within forest ecosystem. This study aimed to identify the genera of edible wild mushrooms collected from local markets in Chiang Mai and Lamphun province, assess their diversity, examine their ecological roles, and create a distribution map of their reported harvesting locations. Samples was collected between July and August 2024 from various local markets. Morphological characteristics were documented through photographic records, and specimen were dried for preservation and microscopic examination. Wet mount preparations were used to observed microscopic structure and measure spore size. A total of 44 samples representing nine genera were identified. The most frequently recorded genus was *Russula* (17 samples), followed by *Amanita* (6 samples), *Termitomyces* (6 samples), *Lactarius* (4 samples), *Chantherellus* (4 samples), *Boletus* (4 samples). One sample each of *Panus*, *Phlebopus*, and *Tricholoma* was also recorded. Approximately 90% of the identified samples were ectomycorrhizal fungi, indicating their ecological importance

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through symbiotic association with forest trees. Overall, this study contributes to the existing database of edible wild mushrooms traded in local markets and enhances understanding of their taxonomic diversity, ecological roles, and geographic origins in northern Thailand. The findings support community-based management and forest restoration by identify key edible mushroom genera and their associated forest habitats, thereby promoting sustainable harvesting and ecosystem conservation.

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Zoology	สัตววิทยา
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