BIOACTIVITY PROFILING OF *Lentinus squarrosulus* MYCELIA

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ABSTRACT

ABELARDO, VIRGIL S., Department of Biological Sciences, College of Arts and Sciences, Central Luzon State University, Science City of Munoz, Nueva Ecija, Philippines, **JUNE 2019, BIOACTIVITY PROFILING OF *Lentinus squarrosulus* MYCELIA**

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Lentinus squarrosulus, from the family Polyporaceae, is an edible wild mushroom commonly found in the Philippines. In order to determine the biological activites of the mycelia and culture spent, the mycochemical composition, antioxidant activity, and cytotoxicity were assessed. The mycelial extract contains triterpenes, anthrones, tannins, flavonoids, phenols, fatty acids, alkaloids and steroids. However, the culture spent contains essential oils, triterpenes, anthrones, tannins, flavonoids, phenols, fatty acids, alkaloids, and steroids. Mycelial extract registered higher radical scavenging activity (52.76%) and total phenolic content (22.33mg GAE/g sample) than the corresponding culture spent extract. Cytotoxicity assay revealed that both extracts of *L. squarrosulus* are non-toxic.

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