MYCOREMEDIATION ABILITY OF *Stropharia rugosoannulata* ON MALT EXRACT BROTH ARTIFICIALLY CONTAMINATED WITH CADMIUM (Cd)

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(Environmental Biology)

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ACCEPTANCE SHEET

This undergraduate thesis entitled **"MYCOREMEDIATION ABILITY OF *Stropharia rugosoannulata* ON MALT EXTRACT BROTH ARTIFICIALLY CONTAMINATED WITH CADMIUM (Cd),"** prepared and submitted by **ROD ROSS S. DE JESUS**, in partial fulfillment of the requirements for the degree of **BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE (ENVIRONMENTAL BIOLOGY)**, is hereby accepted:

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BIOGRAPHICAL SKETCH

The author of the study was named Rod Ross S. De Jesus by his parents, Rodrigo R. De Jesus and Rosalina S. De Jesus. He was born on February 14, 1999 at Parcutela Gapan City, Nueva Ecija. He completed his elementary at Bulualto Elementary School year 2011 as the 5th honor of their class and his high school at San Roque National High School year 2015 with an awards on Leadership being the Sgt. at Arms of the Supreme Student Government of their School, award for winning as the 1st Runner Up, for being the cartoonist of their team during the Division Meet Journalism, and an award for Arnis as the Champion during Division and Provincial Meet. He is now in the tertiary level at Central Luzon State University taking up Bachelor of Science in Environmental Science, major in Environmental Biology. During his high school days, he was a previous scholar of Gapan City, Nueva Ecija scholarship and now he is a scholar of SUC Tulong Dunong. He is currently a founding member of the Central Luzon State University Association of Future Environmental Scientists (CAFES).

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ABSTRACT

DE JESUS, ROD ROSS S., Department of Environmental Science, College of Arts and Sciences, Central Luzon State University, Science City of Munoz, Nueva Ecija, Philippines, **June 2019, MYCOREMEDIATION ABILITY OF *Stropharia rugosoannulata* ON MALT EXTRACT BROTH ARTIFICIALLY CONTAMINATED WITH CADMIUM (Cd)**

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Many of mushroom species from the forest area are consumed by the locals without thinking about the heavy metals uptake in edible mushrooms. The mycelial growth of *Stropharia rugosoannulata* was evaluated in 5 concentrations of Cd namely: 1.25, 2.5, 5, 10 and 20 ppm respectively. Results of the study revealed that the mycelial growth of *Stropharia rugosoannulata* was negatively affected by the different concentrations of Cd. There was no uptake of Cd by the test mushroom due to its inability to profusely grow in the different concentrations of Cd.

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