



BOOK OF ABSTRACT

The 3rd

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POSTGRADUATE SCHOOL

ICPS 2019
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BOOK OF ABSTRACT

DISASTER MANAGEMENT	3
EDUCATION AND COMMUNITY ENGAGEMENT.....	13
HEALTH AND MEDICINE.....	27
HUMAN MOBILITY AND CULTURE DIVERSITY.....	85
HUMAN RESOURCE DEVELOPMENT	96
LAW, POLICE AND FORENSIC	149
SOCIAL AND ECONOMIC ISSUES.....	177
THE ROLE OF LAW IN SUPPORTING SUSTAINABLE CITIES	264
URBAN ECOSYSTEM, HABITATS AND SUSTAINABILITY.....	274

[ABS-174]
ORGANIC WASTE BIOCONVERSION TO PROTEIN AND FAT LEVEL OF BLACK SOLDIER FLY (*Hermetia Illucens*) LARVAE

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Abstract

This study aims to determine levels of protein and fat of Black Soldier Fly larvae fed with different organic waste (cabbage, tomatoes, carrots and the mixture of those three). This research is an experimental study that used a completely randomized design (CRD) with four treatments and six replications. Those four treatments were P1 (6 kg of mixture of cabbage, tomatoes and carrots waste), P2 (6 kg of cabbage waste), P3 (6 kg of tomato waste), and P4 (6 kg of carrot waste). This study was conducted for 12 days using 5 DOL larvae. The collected data were analyzed using the one way Analysis of Variance (ANOVA) method. The results show a highly significant difference ($P < 0.01$) among mixed media, cabbage media, tomato media and carrot media in the test of protein levels of Black Soldier Fly (*Hermetia illucens*) larvae with the highest average protein level found in tomato media at 11.4267%, while the fat level test shows no significant difference ($P > 0.05$) among mixed media, cabbage media, tomato media and carrot media with the highest average of fat level found in carrot media at 0.9533%. Black Soldier Fly larvae's nutrition was strongly influenced by the medium of their breeding. Different nutrients would cause different nutrient content in the larvae.

Keywords: Black Soldier Fly, Fat Level, Protein Level, Organic Waste

Topic: Health and Medicine