

Bukti Komunikasi : Dengan Editor/Panitia Pelaksana ISFA
Judul Artikel: : Effect of Shade and Cover Pore on Development of BSF Prepupa

Word [Edited][Reviewed] AF-006-2021.docx Open in Word Download Save to OneDrive

Word

Accessibility Mode Print Find Immersive Reader

Effect of Shade and Cover Pore on Development of BSF Prepupa

Wisje Lusia Toar^{1,a)}, Ivonne Maria Untu¹⁾, Geertruida Assa¹⁾, Heidy Jultje Manangkot¹⁾, Laurentius Rumokoy^{1,2,b)}

¹Faculty of Animal Science, Sam Ratulangi University, Jalan Kampus Unsrat Kleak, Manado, 95115, Indonesia
²Entomology Studies, Postgraduate School, Sam Ratulangi University, Jalan Kampus Unsrat Kleak, Manado, 95115, Indonesia.

^{a)} Corresponding author: wisje_toar@iive.com
^{b)} rumokoy@msn.com

Abstract. The development of BSF (Black Soldier Fly) insect maintenance has become an important endeavour for alternative animal feed supplies. This works aims to elucidate the effect of shade and pores covering the rearing box on the development of BSF prepupa. This experiment used a completely randomized design arranged in two factors of treatment with five replications. The treatments were Factor A and Factor B. Factor A divided in two environmental conditions consisting of direct sunlight as factor A1 and an indirect sunlight as actor A2. Factor B was the pore percentage of the cover area consisting of B1 5%, B2 15%, B3 25%. Four parameters were measured in this experiment: body weight, body length, body width and body thickness. The results of the variance analysis showed that there was an interaction between the two factors on the weight of prepupa larvae. The post hoc test by using LSD showed that the comparison between B1_B2 and B2_B3 was different at the level of $P < 0.01$ however this was not the case in three other parameters in this study. Through these results, we concluded that the prepupa weight was influenced by the shade treatment and the percentage of the pore covering the rearing container.

INTRODUCTION

During recent years the world is still covered by various predictions due to the Covid-19 pandemic where the confirmed cases are still increasing in many countries. That why the most of the attention and policies in development is directed handling the prevention of this disease. Handling and overcoming this disease is related to the aspect of fulfilling nutrition. Efforts to maintain a dequate food supply to fulfill community nutrition and to support their immunity [4] and [5]

The use of BSF as an alternative feed has a great potential to develop livestock production like in the pandemic situation. Therefore, BSF cultivation development has a business opportunity as a source of animal protein for livestock, especially to improve poultry production [6]. BSF could increase a useful value of organic waste to be converted into animal feed ingredients as well as organic fertilizer. On the other hand, the effects of shade and cover pores of a cultivation container of these insects is not yet known regarding to the limiting factors in the development of these insects is light and air. In addition to the limited scientific information regarding other factors that affect the development of the maintenance of this insect.

Based on the above background, a study on effect of shade and cover pore on development of BSF prepupa has been carried out to support efforts to develop animal feed procurement that does not compete with human food ingredients.

Reviewed and edited version of your article

You replied on Tue 2/8/2022 2:37 AM

International Symposium Food and Bio-Diversity
To: You Sat 11/13/2021 7:06 PM

[Edited][Reviewed] AF-006-2...
40 KB

Attach a file

Dear author,

We are happily providing you with the reviewed and edited version of your article. Please thoroughly read it and make revision when requested by the reviewer!

We are looking forward to having it back for no longer than 7 days for the final editing prior submission to the AIP publisher. Please make sure you send us the revised version of your article in both PDF and DOCX files.

Kind regards

--

International Symposium on Food and Agrobiodiversity (ISFA) 2021
Universitas Diponegoro
Faculty of Animal and Agricultural Sciences
Jl. Prof. Soedarto, Tembalang, Semarang-Indonesia 50275
Web: www.isfa.ift.or.id
Email: isfa@ift.or.id
Contact: +62 822-2123-8423

Reply Forward

Close | Previous Next



Re: Abstract acceptance letter "International Symposium on Food and Agro-biodiversity (ISFA) 2021"



wisje toar

To: International Symposium Food and Bio-Diversity

Cc: You



Tue 10/12/2021 4:46 PM



AIPCP Article Full_Paper_Rev...

52 KB

Pro: Organizing Committee ISFA 2021

Dear Madame/Sir,

Please allow us to revise our authors list name in our article presented in the Symposium entitled "Effect of **Shade** and Cover Pore on Development of **BSF Prepupa**" (as attached).

Thank you,

Kind regards,

Wisje Toar

From: International Symposium Food and Bio-Diversity <isfa@ift.or.id>

Sent: Friday, July 23, 2021 4:42 PM

To: wisje_toar@live.com <wisje_toar@live.com>

Subject: Abstract acceptance letter "International Symposium on Food and Agro-biodiversity (ISFA) 2021"

Dear Wisje Lusia Toar

Sam Ratulangi University

Thank you for submitting an abstract for presentation at the International Symposium on Food and Agro-biodiversity (ISFA) 2021.