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The Addition of Yam Tuber (*Dioscorea alata*) Flour As a Source of Prebiotic on Biomilk Synbiotic Characteristics**Afriza Yelnetty, and Moureen Tama Soleng**

Department of Animal Production, Faculty of Animal Science, Sam Ratulangi University, Jalan Bahu Kampus, Kleak, Malalayang, Manado 95115, Indonesia

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Abstract. Yam tuber is quite abundant in Indonesia and has high carbohydrate and has inulin content. Tuber yam has not been widely used as ingredient of biomilk synbiotic or yoghurt products. This study was aim to investigate effects addition of yam Tuber (*Dioscorea alata*) flour as source of prebiotic, on characteristics of biomilk synbiotic. Starter culture used on biomilk making is *Streptococcus thermophilus* and *Lactobacillus bulgaricus* as probiotic bacteria used *Lactobacillus rhamnosus*. The experiment desing in this study using a Completely Randomized Design with six treatments of tree replicates. The treatment on this study was the percentage of yam tuber flour. Different data between subjected will be continued with Least Significant Difference Test (LSD). The results of research showed that addition of yam tuber flour was significant ($P < 0.05$) on pH, total Lactic Acid Bacteria and viscosity of biomilk synbiotic. It was concluded that yam tuber flour could be used as source of prebiotic on biomilk synbiotic. The addition of 1.0 % of yam tuber flour caused highest viability of Lactic acid bacteria, best viscosity and lowest pH and water content of biomilk synbiotic. The addition 1.0 % of yam tuber flour produced the best of biomilk synbiotic characteristics.

1. Introduction

Biomilk is fermented drink using cow's milk or UHT milk and Lactic Acid Bacteria (LAB) from *Streptococcus thermophilus* and *Lactobacillus bulgaricus*. Biomilk, better known as yogurt, is a fermented milk drink that is very familiar to the community, with a refreshing sour taste. To increase the function of the fermented drink, biomilk needs to be added by probiotics bacteria. Some probiotics bacteria commonly used in fermented drink or biomilk are *Lactobacillus acidophilus*, *Lactobacillus plantarum*, *Lactobacillus rhamnosus*, and *Bifidobacterium*. Probiotics bacteria of *Lactobacillus rhamnosus* is a bacteria that is able to decrease cholesterol in advocado fermentation product given to the tested animal suffering from cholesterol

Biomilk using probiotics bacteria and adding prebiotics ingredients is called Biomilk synbiotik. Prebiotics is food ingredient that cannot be digested but it is possible to be used by lactic acid bacteria or probiotic bacteria to increase its viability. Some prebiotics commonly used is *fructo oligosaccharides* (FOSs) like *inulin*, *galakto saccharida* (GOSs). *Lactitol*, *lactulose*, and *inulin* are special FOSs. *Lactulose*, *oligofructose* and *lactitol* are compounds that can increase the growth of *Bifidobacterium*. Fructo oligosaccharide (FOSs) is an important and natural prebiotic. Inulin has the characteristic $\beta(1-2)$ bond

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Date : 30 October 2018

Letter of Acceptance

Dear Authors: **Afriza Yelnetty and Moureen Tamasolenga**

We are pleased to inform you that your abstract (APT-036, Oral Presentation),
entitled:

**"The Addition of Yam Tuber (*Dioscorea alata*) Flour as a Source of
Prebiotic on Characteristics of Biomilk"**

has been reviewed and accepted to be presented at ICAST 2018 conference to be
held on 6-7 November 2018 in Makassar, Indonesia.

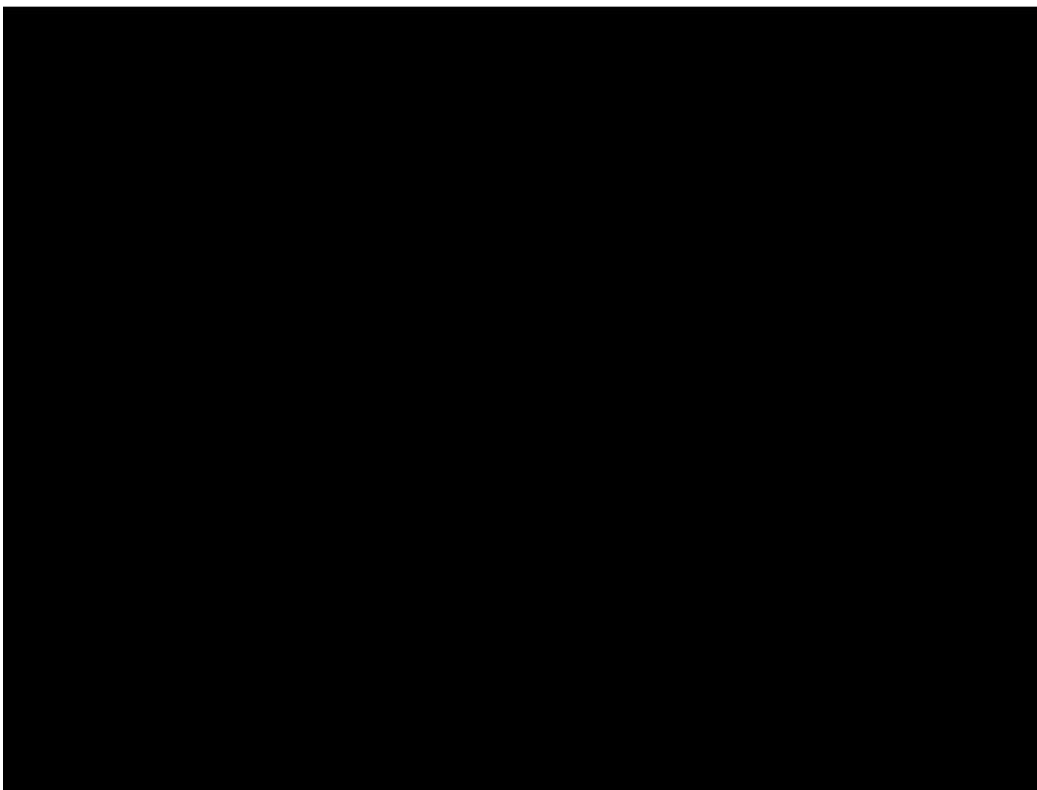
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J Mucklow¹ and A Jansson²

¹ Senior Production Editor, IOP Publishing, Bristol, UK

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e-mail : icast2018.unhas@gmail.com. Home page: icast2018.unhas.ac.id

Date : 30 October 2018

Letter of Invitation

Dear Author: **Afriza Yelnetty**

We are pleased to inform you that your abstract (APT-036, Oral Presentation), entitled:

"The Addition of Yam Tuber (*Dioscorea alata*) Flour As a Source of Prebiotic On Characteristics of Biomilk"

has been reviewed and accepted to be presented in International Conference Animal Science and Technology (ICAST) 2018 to be held on 7th November 2018 at Swiss-Belinn, Jl. Boulevard No. 55 Pandang, Panakukang, Makassar.

We cordially invite you to attend our conference and present your research described in the abstract.

Please submit your full paper by 15 November 2018. Visit our website for more information.

Thank You.

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Ratmawati Malaka
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Encl. : --
Our Ref. : Letter of Acceptance
Date : September 20, 2017

Dear A yelnetty, R Hadju, M Tamasoleng
Faculty of Animal Husbandry, Sam Ratulangi University,- 95115 Ma
Indonesia.
Author correspondence e-mail: ayelnetty_makmur@yahoo.com

It is our pleasure to inform you that your paper entitled "**The Effect of Kola
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For those, please make payment for registration before **25 September 2017** us
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Thank you very much for your participation and support for the success of our c
We are looking forward to meeting in the Sixth SAADC Conference on October 1
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Prof. Dr. Ir. Ifar Subagiyo, M.Agr.St.
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