

ICAFB 2019 ◀

2019 2nd International Conference on Agriculture, Food and Biotechnology

National University of Singapore, Singapore
January 23-25, 2019



Table of Contents

2019 Singapore Conference Introductions	6
Presentation Instructions	7
Keynote Speaker Introductions	8
Brief Schedule for Conference	16
Oral Presentations	18
Poster Presentations	49
One Day Visit	51
Note	53
Feedback Information	57

Session 1

J4001: Economic sensitivity analysis for the improvement in the energy capture of wind turbine generator <i>Wonseok Yang, Chung Kyu Lee, Young Gyu Jin</i>	18
J5001: Establishing A Support System for the Installation of Photovoltaic Generation System Considering Historical Cityscape and Landscape Using Geographical Information System (GIS) <i>Atsushi Shiota, Thongchart KERDPHOL, Yasunori MITANI</i>	19
J4005-A: Practical Issues in Setting Up a Grid Connected Energy Storage System <i>Suguna Thanagasundram</i>	21
J4008: An IP Multicast Framework for Routable Sample Value Communication in Transmission Grids <i>Charles Mawutor Adrah, Jaya R.A.K. Yellajosula, Øivind Kure, David Palma, Poul E. Heegaard</i>	23
J4009: Prediction model and control method for realizing demand response <i>Toshihiro Mega, Kazuhiro Komatsu, Shigenori Kawawaki, Yusuke Aoyama, Masatada Kawatsu, Noriyuki Kushiro</i>	24
J4011: Simulation and Detectability Analysis of Power System Open Phase Condition in Korea's Standard Nuclear Power Plant <i>Soonhyun Hwang, Balho H. Kim, Sanghoun Joung, Hongseok Jang</i>	25
J8004: Size of a distributed electrical storage for a rural area with a wind farm <i>Johannes Üpping, F. Bollhöfer and K. Forche</i>	26

	J2015-A Evaluation of correlations between particles and bacteria in indoor air in a dairy calf house	40
	<i>Md. Aminul Islam, Atsuo Ikeguchi, Takanori Naide</i>	
	Session 4	
	J1002-A: Analysis of the Extracts of the Three Local Varieties of Groundnut (<i>Arachis hypogaea</i> Spp) Used by the Small Scale Industry in Sokoto State, Nigeria	41
	<i>Sanusi Moyi Salame</i>	
	J2003-A: A Study on Operation Control of Humid Air of Fermentation Extinction Device for Improve Treatment of Food Waste	42
	<i>Cheol Jin Jeong, Se Yong Park, Hyoung Woon Song</i>	
	J1006-A: Assessment of Potential Lactic Acid Bacteria as a Starter from Yellow Sweet Potato Fermentation with Backslipping Procedure	43
	<i>Neti Yuliana, Pramita Sari Anungputri, Sumardi, and Edo Jatmiko</i>	
	J1011: Cheese Analogue-Making Process Using Microbial Transglutaminase: Effects on Texture and Syneresis	44
	<i>Elena Saguier, Ana M. Cadavid, Laia Bohigas, Mònica Toldrà, Dolors Parés, Carmen Carretero</i>	
	J1016: Total dietary fiber in coconut powder cookies and their antioxidant activity: A healthy snack potentiality.	45
	<i>Janyawat Vuthijumnonk, Sureewan Rajchasom</i>	
	J1020: The study of drying condition for local dried fermented soy bean (Thua Nao)	46
	<i>Sureewan Rajchasom</i>	
	J1022: Investigation of Antioxidant Properties on Some Garlic Varieties and Influence of Farming Inputs on the Quality of Garlic	47
	<i>Ulyatu Fitrotin, Baiq Nurul Hidayah</i>	
	J1018-A: A 3D Alzheimer disease cell culture model and the effects of gold nanoparticles on mitochondrial function in amyloid beta-treated human neural stem cells under 3D culture conditions	48
	<i>Ming-Chang Chiang, Chia-Hui Yen</i>	
	Poster Session	
	J2004: Human Capital and Technology Change of Chinese Agriculture	49
	<i>Zhijun LI, Jianxiang Guo</i>	
	J4006: Impact of Wind Shear and Tower Shadow on the Small Signal Stability of Power Systems incorporating Wind Turbines	50
	<i>Temitope Raphael AYODELE, Munda J.L</i>	
Analysis of Broiler	27	
Manihot Esculent	28	
technology	29	
Logic Algorithm	30	
ene Sesquiterpenes	31	
hila		
Jun Cao, Xue Pang,		
ent, fruit quality and	32	
ersion System for	33	
urrent challenges and	34	
ces	35	
sing the Method of	36	
with rectangular-wing	37	
ic Solvents	38	
il Naser		
pectin extraction from	39	

Session 4

Afternoon, January 24, 2019 (Thursday)

Time: 15:50~17:50

Venue: Room "Lemongrass Conference Room"

8 presentations-Topic: "Food Engineering and Biomedicine"

Session Chair: Prof. Ching Chang Lee and Prof. Munir Aziz Turk

J1006-A Presentation 3 (16:20~16:35)

Assessment of Potential Lactic Acid Bacteria as a Starter from Yellow Sweet Potato Fermentation with Backslopping Procedure

Neti Yuliana, Pramita Sari Anungputri, Sumardi, and Edo Jatmiko
University of Lampung, Indonesia

Abstract—The aim of this study was to assess the potential lactic acid bacteria as a starter based on the fermentation profile of yellow sweet potato. The fermentation was arranged in the backslopping procedure, and spontaneous fermentation was also done as a control. Observation on the profile fermentation was performed at 0, 24, 48, and 72 hours of fermentation. The results showed that, at hour 72, either spontaneously or by a backslopping method, the optimum value for the production of EPS metabolites, the number of a LAB, total lactic acid and also the lowest pH, as well as a significant change of the morphology of fermented yellow sweet potato starch granules, were obtained. It is, therefore, the potential starter of lactic acid bacteria was from the 72 hours yellow sweet potato fermentation.

ICAFB 2019

Certificate

of Participation and Presentation

This Certificate is
Proudly Presented to



Neti Yuliana

for participation and presentation of her work during 2019 2nd International
Conference on Agriculture, Food and Biotechnology (ICAFB 2019)
held in Singapore during January 23-25, 2019

Presenter's affiliation: University of Lampung, Indonesia

Paper ID: J1006-A

Paper Title: Assessment of Potential Lactic Acid Bacteria as a Starter
from Yellow Sweet Potato Fermentation with
Backslopping Procedure



Session Chair
Prof. Ching Chang Lee
Session Chair
Prof. Munir Aziz Turk

