International Conference on Agritechnology & Bioprocessing Innovation

Fostering Sustainability through Emerging Trends in Agriculture Technology and Bioprocessing

CONFERENCE SCHEDULE INTERNATIONAL CONFERENCE ON AGRITECHNOLOGY & BIOPROCESSING INNOVATION (ICAgBio) 2024

DAY 1: 24th SEPTEMBER 2024 (TUESDAY)

TIME	ACTIVITIES			
08:00-09:00	Registration			
09:00-09:10	Opening Ceremony by Master of Ceremony			
09:10-09:25	Welcoming Remarks Professor Dr. rer. Nat. Hesham Ali El-Enshasy Director of Innovation Centre in Agritechnology for Advanced Bioprocessing (ICA) Universiti Teknologi Malaysia (UTM) Kampus Pagoh			
	Welcoming Remarks and Officiates Prof. Dr. Rosli Md Illias Deputy Vice Chancellor (Research and Innovation) Universiti Teknologi Malaysia (UTM)			
	Montage presentation			
09:25-10:15	Photo session Keynote Session 1 How do bacteria avoid the burden of various plasmids? Professor Dr. Hideaki Nojiri The University of Tokyo, Japan			
10:15-11:05	Keynote Session 2 Functional Foods and Nutraceuticals: Paving the Way for Sustainable Agriculture and Health Associate Professor Ts. Dr. Mohd Fadzelly Abu Bakar Universiti Tun Hussein Onn Malaysia (UTHM), Malaysia			
11:05-11.15	Quiz session 1			
11:15-11:20	Closing and Announcemer	nt of Parallel Session 1		
		1 (BREAKOUT ROOM)		
	11:20-	-13:00		
THEME A Agriculture Digitalization	THEME B 1) Sustainable Agriculture 2) Biowaste Management	THEME C Food Processing & Product Development	THEME D 1) Biotechnology in Agriculture 2) Biobased Product	
AD1 Evaluation of the Hive's Climate Control Effect on Stingless Bees Meliponiculture at 30°C, 33°C, and 36°C Abdul Muhaimin Mohd Shafie (Universiti Teknologi MARA)	SA1 The Effects of Sheep Wool Mulch and Sheep Manure on the Fresh Yield of Napier Grass (Pennisetum purpureum) Mohd Nadzreen Hidayat Sarjuni (Universiti Teknologi Malaysia)	FP1 Challenges and Opportunities in Expanding Indonesian Ginger (Zingiber officinale) Exports Siti Aminah (Institut Pertanian Bogor, Indonesia)	BP1 Palm Oil-Based Base Oil as a Sustainable Alternative to Mineral Oils in Electric Vehicles Application Dr. Mohd Muhyiddin Mustafa (Universiti Teknologi MARA)	
AD2 The Assessment of Intelligent Agriculture Performance Evaluation Index System in Rural Areas	SA2 Sustainable Certification in the Oil Palm Industry: A Comparative Analysis of MSPO, RSPO, ISPO and ISCC Schemes	FP2 Consumer Behaviors and Purchase Intention for Kombucha-like Powder from Phyllanthus emblica	BP2 Evaluation of Agriculture Green Development Level and Regional Differences in Shandong Province, China	

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of Chandona Brayings	Dr. Muhamad Zahid	Nur Haniza Ewandi Jana	Li Duchan (Universiti
of Shandong Province, China	Muhamad (Universiti	Nur Haniza Ewandi Jong (Universiti Tun Hussein	Li Ruohan (Universiti Teknologi Malaysia)
An Yikun (Universiti	Teknologi MARA)	Onn Malaysia)	Teknologi Walaysia)
Teknologi Malaysia)	Teknologi WANA)	Offit Malaysia)	
AD3	SA3	FP3	BP3
Smart Pineapple	Utilization of selected	Assessment of	Phytochemical
Farming Assistant	agro-waste for soilless	fermented Noni Juice:	Component
Mobile Application on	cultivation on tomato	Microbial Enumeration,	Identification in the
Identifying Diseases in	Assoc. Prof. Dr. Siti Noor	Antioxidant Activity,	Fruit Rind of Garcinia
MD2 Pineapple	Hajjar Md Latip	and Volatile Compound	parvifolia
Cultivation	(Universiti Teknologi	Analysis	Ahmad Iqbal Bin Noordin
Dr. Siti Fairuz Nurr	MARA)	Elvin Shivriya Dikkuruse	(Universiti Tun Hussein
Sadikan (Universiti	,	(Universiti Tun Hussein	Onn Malaysia)
Teknologi MARA)		Onn Malaysia)	
AD4	SA4	FP4	BP4
Brown Planthopper	Mechanization Package	Characterization of	Antibacterial Activities
Outbreak Management	for Pineapple	Collagen Derived from	of Curcuma caesia
with Early Warning	Production on Peat Soil	Different Fish SPecies	Roxb. Rhizome
System	in Malaysia	via Ultrasonic-Assisted	Extracts
Dr. Arina Mohd Noh	Adli Fikri Ahmad Sayuti	Techniques	Siti Juariah (Universiti
(Malaysian Agricultural	(Malaysian Agricultural	Nur Fashya Musa	Tun Hussein Onn
Research and	Research and	(Universiti Teknologi	Malaysia)
Development Institute, MARDI)	Development Institute, MARDI)	Malaysia	
AD5	SA5	FP5	BP5
Performance	Food Security	Evaluation Ascorbic	Synthesis of Fe/Ba/γ-
Evaluation of the IoT-	Elements Evaluation on	Acid, Total Phenolic	Al2O3 Catalyst for
based Coffee Bean	the Agricultural Sector	Compound, Sensory	Transesterification of
Dryer System at	in Rural Areas of	Attributes and	Low-Grade Cooking Oil
Varying Temperatures	Malaysia	Proximate Analysis of	for Biodiesel
Mohamad Zaharudin	Dr. Mohamad Fadhli	Phyllantus emblica-	Production
Sariman (Universiti	Rashid (Universiti	Derived Beverage	Syahirah Yahya
Teknologi MARA)	Teknologi Malaysia)	Norshila Md Isa	(Politeknik Tun Syed
,		(Universiti Tun Hussein	Nasir Syed Ismail)
		Onn Malaysia)	
13:00-14:30	Lunch Break		
14:30-15:10	Keynote Session 3		
		nably: Exploring New Food \S	Sources and Production
	Systems		
	Professor Dr. Purwiyatno	Hariyadi	
1-101-00	IPB University, Indonesia		
15:10-15:20	Quiz session 2	(5 "10 : 6	
15:20-15:25	Closing & Announcement of		
		2 (BREAKOUT ROOM)	
TUENE		-17:00	TUENED
THEME A	THEME B	THEME C	THEME D
Agriculture Digitalization	1) Sustainable	Food Processing &	Biotechnology in Agriculture
	Agriculture	Product Development	Agriculture 2) Biobased Product
	2) Biowaste		2) Biobased Product
AD6	Management SA6	FP6	BP6
Classification of Water	Exopolysaccharide	Comparative Study of	Preparation of
Bodies in Paddy Field	from Lactobacillus	Freezing and Sterilizing Activated Carbon	
Using Unmanned Aerial	paracasei Isolated from	Methods for Ginger	derived from Water
Vehicle Based Remote	Pineapple on its	Puree	Treatment Sludge
Sensing Imagery	Functional Properties	Sharifah Hafiza Mohd	activated via
		Ramli (Malaysian	
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Dr. Toob Chin Chuana	and Dhysics shamiss!	Agricultural Research	Carbonization
Dr. Teoh Chin Chuang (Malaysian Agricultural	and Physicochemical Characteristics	and Development	Carbonization using Superheated Steam
Research and	Dr. Nor Zalina Othman		
		Institute, MARDI)	Nur Alya Nabilah Jamal
Development Institute,	(Universiti Teknologi		(Universiti Putra
MARDI)	Malaysia)		Malaysia)
AD7	SA7	FP7	BP7
Optimization of Algae	Managing Farm Agro	Ultrasonicated of	Isolation, Identification
Photobioreactor	Waste in Rural Areas:	Shortfin Scad	and Antagonistic
Cultivation and	Emerging Potentials	(Decapterus	Activity by Potassium
Detection using	and Challenges of	Macrosoma) Waste	Solubilising Bacteria
Multispectral Imaging	Biochar Production	Protein Hydrolysate for	(KSB) from Forest Soil
and Machine Learning	and Use among	Potential Food	on Oil Palm Pathogen,
Keshinro Kazeem	Smallholders	Supplement: Techno-	Ganoderma boninense
Kolawole (Universiti	Dr. Khairul Hisyam	functional Properties,	Dr. Salwa Abdullah
Teknologi Malaysia)	Kamarudin (Universiti	Microstructure and	Sirajuddin (Malaysian
Toknologi Walayola)	Teknologi Malaysia)	Antioxidant Activity	Palm Oil Board)
	Teknologi Walaysia)	Assoc. Prof. Dr. Norizah	l ain oi board)
		Mhd Sarbon (Universiti	
ADO	CAO	Malaysia Terengganu)	DD0
AD8	SA8	FP8	BP8
Development of	Elucidating The Use of	Cooking Quality,	Impact of Light
Internet of Things (IoT)	Paddy Waste (Rice	Physicochemical and	Conditions on the
Based Monitoring and	Bran) in Poultry Feed	Sensory Properties of	Growth and
Control System for	to Improve Broiler's	Fresh Pasta	Physiological
Kelah Fish	Meat Quality	Incorporated with Rice	Characteristics of
A Rafidah A Mohd Yunos	Tuan Badli Shah Tuan	Bran	Talinum fruticosum
(Universiti Teknologi	Jusoh (Universiti	Dr. Nor Akma Ismail	Callus
Malaysia)	Selangor)	(Universiti Malaysia	Shahril Efzueni Rozali
		Terengganu)	(Universiti Malaya-
			Wales)
AD9	SA9	FP9	BP9
An Enhanced Genetic	A Review: Feed for	Effects of Bromelain	Integration of MgFe
Algorithm for Solving	Malaysian mahseer,	Enzyme on the Texture,	Layered Double
the Capacitated Vehicle	Tor tambroides	Protein Content, and	Hydroxide on The
Routing Problem Using	(Bleeker, 1854)	Cooking Quality of	Surface of Tea Stalk
Cluster-Based	Cultured in Captivity	Marinated Lamb Meat	Based Activated
Optimization and 2-Opt	Norfakhrina Mohd Noor	Dr. Siti Nor Azlina Abd	Carbon for Enhanced
Refinement	(Universiti Malaysia	Rashid (Universiti	Cd(II) Adsorption
Abubaker Ahmed Badi	Terengganu)	Teknologi Malaysia)	Erniza Mohd Johan Jaya
(Universiti Teknologi	i oronggana)	Toknologi Walayola)	(Universiti Sains
Malaysia)			Malaysia)
AD10	SA10		ividia y Sia j
Smart Pineapple	A Semi-Continuous		
Farming in Peatland:	Sub-Critical Water		
IoT-Based Early			
	Process for Recovery		
Warning System for	of Palm Oil and		
Monitoring Fire	Valuable Material from		
Vulnerability	Oil Palm Empty Fruit		
Ratu Mutiara Wulandari	Bunch (EFB)		
(IPB University,	Nareen Ponneeswaran		
Indonesia)	(Universiti Putra		
	Malaysia)		
1	i		
17:00	Closing Session by Master	of Ceremony	
17:00	Closing Session by Master End Day 1	of Ceremony	

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DAY 2: 25TH SEPTEMBER 2024 (WEDNESDAY)

TIME	ACTIVIT	TIES	
08:00-09:00	Registra		
09:00-09:50	Welcoming Speech by Master of Ceremony		
	Keynote Session 4 Precision Farming 4.0 - Challenges and the Way Forward Associate Professor Ir. Dr. Mohamad Shukri Zainal Abidin Universiti Teknologi Malaysia, Malaysia		
09:50-10:35	Keynote Session 5 Climate change mitigation strategies in agriculture Professor Dr. Muhammad Arshad Javed University of the Punjab, Pakistan		
10:35-10:45	Quiz se		
10:45-10:50		cement of Parallel Session 2 by Maste	
	PAR	ALLEL SESSION 3 (BREAKOUT RO	OOM)
		10:50-11:50	
THEME B 1) Sustainable Agricultur 2) Biowaste Managemen		THEME C Food Processing & Product Development	THEME D 1) Biotechnology in Agriculture 2) Biobased Product
SA11 Green Synthesis of Seler Nanoparticles using Leav Extract of Psidium guaja Nur Amalina Mohd Ropi (U Teknologi Malaysia)	ves va	FP10 Quercitrin Extract from Cosmos caudatus Kunth by Ultrasonic-Assisted Extraction Dr. Norliza Abdul Latiff (Universiti Teknologi Malaysia)	BP10 Metabolic Cooperation & Transcriptomic Response of Comamonas Strain R2 in the Phenol Biodegradation Engineered Ecosystem Dr. Abd Rahman Jabir Mohd Din (Universiti Teknologi Malaysia)
SA12 Yield and Quality Evaluat Vertical-Grown Microgree Cultivated on Different Substrates Suhir Sulaiman (Universiti Teknologi Malaysia)		FP11 Enzyme-assisted Citric Acid Extraction of Pectin from Red- Purple Pitaya Peel Dr. Majida Al-Ezzi (University of Baghdad, Iraq))	BP11 Molecular Cloning and Characterization of Lignin- Related myB Genes from Oil Palm (Elaeis guineensis Jacq. Pisifera) Mohd Farhan Azhari (Universiti Teknologi MARA)
SA13 Optimizing the Biosynthe Silver Nanoparticles usin Garcinia mangostana Pe for Tetracycline Degrada Nurshahira Mohd Rozi (Un Teknologi Malaysia)	ig ricarp tion	FP12 Halal Authentication of Animal- Derived Fatty Acids using FTIR- ATR Spectroscopy and the Principal Component Analysis Approach Muhammad Zulhelmi Nazri (Universiti Teknologi Malaysia)	BP12 Assessment of Bemisia tabaci (Hemiptera: Aleyrodidae) Incidence on Lowland Bell Pepper (Capsicum annuum L.) and the Effectiveness of Conventional Pesticides and Local Entomopathogenic Fungi Wan Muhammad Azrul Wan Azhar (Malaysian Agricultural Research and Development Institute, MARDI)
SA14 Effect of Light Conditions Substrates on Agronomi Characteristics and Antic Quality of Microgreens	С		

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Mohd Farid Ismail (Univ Teknologi Malaysia)	/ersiti			
5 , ,		session		
13:00-14:30	- 0 0	Lunch Break		
14:30-15:00	Associa Deputy I Teknolog	Closing ceremony Associate Professor Ir. Dr. Norzita Ngadi Deputy Director (Research & Innovation) / Academic & Student) of Universiti Teknologi Malaysia (UTM) Pagoh Campus Announcement of Winners		
15:00	End Day	12		

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