



12th International Conference on Plant Protection in the Tropics (12th ICPPT)

SCIENTIFIC PROGRAM

(Venue: Olive Tree Hotel, Penang)

TUESDAY (24 th SEPTEMBER 2024)			
2000 - 2200	Pre-registration (Registration Counter, Level 7)		
WEDNESDAY (25 th SEPTEMBER 2024)			
0800 - 0900	Registration / Poster Set Up		
0900 - 0945	Opening Ceremony Venue: Ballroom		
0945 - 1015	Tea Break		
1015 - 1100	KEYNOTE Venue: Ballroom Controlling and Mitigation of Oil Palm Pests and Diseases in Malaysia <i>Datuk Dr. Parveez Ghulam Kadir</i> Director General, Malaysian Palm Oil Board Chairperson: Prof. Dato' Dr. Abdul Shukor Juraimi		
SESSION 1			
	Session 1A BIOTECHNOLOGY AND CROP IMPROVEMENT Venue: Ballroom Chairperson: Assoc. Prof. Dr. Muhamad Shakirin Mispan	Session 1B FOOD SECURITY AND SAFETY Venue: Olive 4/5 Chairperson: Prof. Dr. Latiffah Zakaria	Session 1C MONITORING AND DIAGNOSTIC ADVANCEMENT Venue: Olive 7/8 Chairperson: Assoc. Prof. Dr. Khairulmazmi Ahmad

1115 - 1130	<p>1A1</p> <p>Radio-Sensitivity and Seedling Responses of Malaysian Aromatic Rice Genotypes Towards Acute Gamma Irradiation</p> <p><i>Aliif Ihsaan Akmal Shukri</i></p>	<p>1B1</p> <p>Exploration and Identification of NPR1 Gene-Mediated Plant Defense Response in Chili Against Begomovirus Infection</p> <p><i>Muhammad Shafiq</i></p>	<p>1C1</p> <p>Experiences With Integrated Pest Management in Cauliflower and Rice in Myanmar</p> <p><i>Sivapragasam Annamalai</i></p>
1130 - 1145	<p>1A2</p> <p>Cataloging Putative Effectors Expressed by <i>Ganoderma boninense</i> During <i>In Vitro</i> Host-Pathogen Interaction via PacBio IsoSeq Transcriptome Analysis</p> <p><i>Anis Farhan Fatimi Ab Wahab</i></p>	<p>1B2</p> <p>Green Synthesis of Zinc Oxide Nanoparticles Using Mint Extract and Their Antimicrobial Evaluation for Plant Pathogen Protection</p> <p><i>Muhammad Shahid</i></p>	<p>1C2</p> <p>Genetic Typing and Virulence Patterns of <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> Strains in Malaysian Rice Granaries</p> <p><i>Kogeethavani Ramachandran</i></p>
1145 - 1200	<p>1A3</p> <p>An Efficient Micropropagation Protocol for <i>Musa acuminata</i> cv. Red Banana Using Different Spectra of Light-Emitting Diodes (LEDs) System</p> <p><i>Jonathan Bege</i></p>	<p>1B3</p> <p>Elucidating the Salt Tolerance Mechanisms of Indigenous Halotolerant Plant Growth-Promoting Bacteria in Rice Plants</p> <p><i>Teo Han Meng</i></p>	<p>1C3</p> <p>Influence of Water Management on Early Weed Detection in Rice Fields Using Hyperspectral Sensing and Machine Learning</p> <p><i>Muhamad Noor Hazwan Abd Manaf</i></p>
1200 - 1215	<p>1A4</p> <p>Metabolic Profiling and Comparison of <i>Ganoderma</i> Fruiting Body by Gas Chromatography/Quadrupole Time-of-Flight (GC/Q-TOF) Approach</p> <p><i>Lee Pei Lee Angel</i></p>	<p>1B4</p> <p>Implementation Scenario of (MyGAP) Certification in Sarawak: Challenges from the Perspectives of Farmers and Officers</p> <p><i>Johnny Meddy anak Kesmed</i></p>	<p>1C4</p> <p>Site-specific Weed Management using Multispectral Unmanned Aerial Vehicle (UAV) and Deep Neural Networks (DNN) in Rice Field</p> <p><i>Rhushalshafira Rosle</i></p>

1215 - 1230	<p>1A5</p> <p>Harnessing Genetic Diversity in a Rice Wild Relative, <i>Oryza rufipogon</i> for Bacterial Panicle Blight Resistance</p> <p>Muhammad Asyraf Md Hatta</p>	<p>1B5</p> <p>Characterisation of <i>Aspergillus</i> Species Associated with Cocoa Beans (<i>Theobroma cacao</i>) in Peninsular Malaysia</p> <p>Nuraina Syazana Sahariman</p>	<p>1C5</p> <p>Hyperspectral Radiometry and Machine Learning-Based Classification of Stem Borer Infestation in Rice Plants</p> <p>Siti Nuraishah Azman</p>
1230 - 1400	Lunch Break		
1400 - 1430	<p>PLENARY 1 Venue: Ballroom</p> <p>Innovations in Crop Protection Programs for Sustainable Agriculture <i>Dr. Shoumo Mitra</i> APAC Head of Field Sciences, Crop Protection Discovery & Development, Corteva Agriscience (Singapore) Pte Ltd.</p> <p>Chairperson: Mr. Aiman Hanis Jasmi</p>		
SESSION 2			
	<p>Session 2A PESTICIDES SCIENCE AND TECHNOLOGY</p> <p>Venue: Ballroom Chairperson: Dr. Wan Mohd Hafezul Wan Abdul Ghani</p>	<p>Session 2B PLANT DISEASES</p> <p>Venue: Olive 4/5 Chairperson: Assoc. Prof. Dr. Siti Nordahliawate Mohamed Sidique</p>	<p>Session 2C PLANT DISEASES</p> <p>Venue: Olive 7/8 Chairperson: Dr. Masratul Hawa Mohd</p>
1445 - 1500	<p>2A1</p> <p>Development of Ready-to-Use Formulation of WeedLock Bioherbicide to Control Weeds</p> <p>Md Mahmudul Hasan</p>	<p>2B1</p> <p>The Impact of Ceratocystis Wilt and Canker Disease on the Sustainability of Forest Plantation Industry in Malaysia</p> <p>Annya Anak Ambros</p>	<p>2C1</p> <p>Exploring the Potential of Nanotechnology for Bacterial Blight Disease Prevention and Treatment in Rice Cultivation</p> <p>Khairulmazmi Ahmad</p>

<p>1500 - 1515</p>	<p>2A2</p> <p>Illegal Pesticide Use in Malaysia and Its Content Analysis</p> <p>Norida Mazlan</p>	<p>2B2</p> <p>Disease Incidence of Late Blight of Potato (<i>Phytophthora infestans</i>) in Response to Climate Change</p> <p>Arifin Tasrif</p>	<p>2C2</p> <p>Antimicrobial Compounds from Lactic Acid Bacteria (LAB) Inhibited Growth of <i>Ralstonia syzygii</i> subsp. <i>celebesensis</i> (Rsc), Causal Pathogen of Banana Blood Disease</p> <p>Michell Sam Kah Ven</p>
<p>1515 - 1530</p>	<p>2A3</p> <p>Management and Control of Ant Populations in Mango Plantation Using Different Insecticides and Concentrations</p> <p>Abdul Hafiz Ab Majid</p>	<p>2B3</p> <p>Field Evaluation of Zorvec Encantia, Premix of Oxathiapiprolin (2.8% w/w) + Famoxadone (28.0% w/w) for Management of Downy Mildew on Melon in Malaysia</p> <p>Chong Sok Leng</p>	<p>2C3</p> <p>Current Species Composition of <i>Fusarium</i> spp. from Rice Field of Peninsular Malaysia</p> <p>Nik Mohd Izham Mohamed Nor</p>
<p>1530 - 1545</p>	<p>2A4</p> <p>Tracing the Pathogen: Survey, Identification, and Pathogenicity of <i>Calonectria</i> Leaf Blight in <i>Eucalyptus</i> Plantations Across Peninsular Malaysia</p> <p>Ahmad Syazwan Samsuddin</p>	<p>2B4</p> <p>Fruit Rot of Nutmeg in Penang: Identification of Fungal Pathogen and Assessment of Grower Knowledge and Management</p> <p>Goh Ka Sheng</p>	<p>2C4</p> <p>Variation in <i>Ganoderma boninense</i> Aggressiveness Causing Basal Stem Rot (BSR) in Oil Palm through Tissue Culture and Seedling Pathogenicity Assays</p> <p>Nur Rasyeda Ramli</p>

1545 - 1600	<p>2A5</p> <p>Pathogenicity of <i>Fusarium verticillioides</i> and <i>F. proliferatum</i> Associated with Crown Rot of Banana (<i>Musa paradisiaca</i>) in Peninsular Malaysia</p> <p>Aisha Mohammed Inuwa</p>	<p>2B5</p> <p>Pathogenicity of <i>Penicillium citrinum</i> from Maritime Island of Antarctica and Malaysia on <i>Citrus aurantifolia</i></p> <p>Hamidu Musa Yoldere</p>	<p>2C5</p> <p>Pathogenic Ability of Endophytic <i>Fusarium oxysporum</i> and <i>F. solani</i> Isolated from Spines of Rattan (<i>Calamus castaneus</i>)</p> <p>Nurul Farizah Binti Azuddin</p>
1600 - 1615	<p>2A6</p> <p><i>In Vitro</i> Antimicrobial Activity and Mechanisms of Action for Ginger Essential Oil and its Active Ingredients against <i>Erwinia chrysanthemi</i>, the Causative Agent of Bacterial Heart Disease in Pineapple</p> <p>Amara Rafi</p>	<p>2B6</p> <p>Unraveling Fungal Pathogens Causing Leaf Spot Diseases on Oil Palm Seedlings in Indonesia: <i>Curvularia</i> as the Predominant Genera</p> <p>Hari Priwiratama</p>	<p>2C6</p> <p>Evaluating the Pathogenic Potential of Endophytic <i>Colletotrichum</i> spp. Fungi Isolated from Carpet Grass (<i>Axonopus compressus</i>)</p> <p>Rizwana Kausar</p>
1615 - 1630	Tea Break		
1630 - 1730	<p>MAPPS Annual General Meeting</p> <p>VENUE: Olive 4/5</p>		
THURSDAY (26th SEPTEMBER 2024)			
0900 - 0930	<p>PLENARY 2</p> <p>Venue: Ballroom</p> <p><i>Colletotrichum</i> Diseases Infected Agricultural Crops in Malaysia</p> <p><i>Prof. Dr. Latiffah Zakaria</i></p> <p>School of Biological Sciences, Universiti Sains Malaysia</p> <p>Chairperson: Assoc. Prof. CA. Dr. Norida Mazlan</p>		

0930 - 1000	<p>PLENARY 3 Venue: Ballroom</p> <p>Sustainable Weed Management in the Chemical Era, is it Still Possible? <i>Assoc. Prof. Dr. Muhammad Saiful Ahmad Hamdani</i> Department of Crop Science, Faculty of Agriculture, Universiti Putra Malaysia</p> <p>Chairperson: Mr. Meor Badli Shah Ahmad Rafie</p>		
1000 - 1030	Tea Break		
SESSION 3			
	<p>Session 3A</p> <p>SUSTAINABLE PEST MANAGEMENT</p> <p>Venue: Ballroom Chairperson: Dr. Nik Mohd Izham Mohamed Nor</p>	<p>Session 3B</p> <p>SUSTAINABLE PEST MANAGEMENT</p> <p>Venue: Olive 4/5 Chairperson: Dr. Mohd As'wad Abdul Wahab</p>	<p>Session 3C</p> <p>UAV & DRONE TECHNOLOGY IN PLANT PROTECTION</p> <p>Venue: Olive 7/8 Chairperson: Dr. Mohd Hefni Rusli</p>
1030 - 1045	<p>3A1</p> <p>Silicon Nutrient Strengthens Passive Defense Structure and Reducing Plant Diseases</p> <p><i>Siti Nordahliawate Mohamed Sidique</i></p>	<p>3B1</p> <p>Sexual Dimorphism in Predatory Efficiency of <i>Chelisoche annulatus</i> in Controlling Bunch Moth (<i>Tirathaba rufivena</i>) in the Laboratory Condition</p> <p><i>Lukman Idowu Gambari</i></p>	<p>3C1</p> <p>Drone for Insecticides Application in Oil Palm</p> <p><i>Mat Amin Jaafar</i></p>
1045 - 1100	<p>3A2</p> <p>Evaluating the Impact of <i>Trichoderma</i> spp. as a Biological Control for Pestalotiopsis Leaf Fall Disease among Smallholders</p> <p><i>Wan Nur Madihah Wan Abd Halim</i></p>	<p>3B2</p> <p>Flubendiamide as an Eco- Friendly Solution for Managing Oil Palm Bunch Moth (<i>Tirathaba</i> sp.)</p> <p><i>Mohd Akmal Afif Mohamad Zailudin</i></p>	<p>3C2</p> <p>Unmanned Aerial Vehicle Canopy-to- Canopy-Overlapping (UAV C2CO) Insecticide Spraying Evaluation for Optimized Bagworm Control in Oil Palm</p> <p><i>Nor Sarashimatun Sapian</i></p>

1100 - 1115	<p>3A3</p> <p>Diversity and Abundance of Insects and Natural Enemies in Maize Plantations at TKPM Titi Gantung, Perak, Malaysia</p> <p>Ahmad Zaimi Mohd Zawawi</p>	<p>3B3</p> <p>Projection Model for Eastern Barn Owl (<i>Tyto javanica</i>) Population in FGV Oil Palm Plantation in Lahad Datu, Sabah</p> <p>Muhammad Dzulhelmi Muhammad Nasir</p>	<p>3C3</p> <p>Detecting the Spectral Signatures of the Broadleaved Weeds and The Rice Plant Through a Hyperspectral Imaging Sensor (ResononPika L)</p> <p>Nursyazyla Sulaiman</p>
1115 - 1130	<p>3A4</p> <p>The Role of Pathogens in Plant Disease Control</p> <p>Iliya Appollm Yakubu</p>	<p>3B4</p> <p>Hydro-Smart Farming: Advancing Sustainable Pest Management Strategies for Climate-Resilient Tropical Agriculture</p> <p>Saima Hashim</p>	<p>3C4</p> <p>Predatory Behaviours of Asian Openbill Storks (<i>Anastomus oscitans</i>) on Apple Snails (<i>Pomacea</i> spp.)</p> <p>Badrulhadza Amzah</p>
1130 - 1145	<p>3A5</p> <p>Sustainable and Innovative Pest Management: The WIMICS Approach in Sarawak</p> <p>Lai Lee San</p>	<p>3B5</p> <p>Molecular Identification of New <i>Cordyceps</i> Isolate and Its Spore Density on Several Growth Media and Mortality to Control <i>Setothosea asigna</i> Larvae</p> <p>Tjut Ahmad Perdana Rozziansha</p>	<p>3C5</p> <p>Development of a Molluscicide with Guava (<i>Psidium guajava</i>) Extract to Control Apple snail (<i>Pomacea maculata</i>) in Paddy Cultivation</p> <p>Erwan Shah Shari</p>
1145 - 1230	POSTER JUDGING SESSION		
1230 - 1400	Lunch Break		
SESSION 4			
	<p style="text-align: center;">Session 4A</p> <p style="text-align: center;">VERTEBRATE AND INVERTEBRATE PESTS</p> <p style="text-align: center;">Venue: The Olive Chairperson: Assoc. Prof. Dr. Muhammad Saiful Ahmad Hamdani</p>	<p style="text-align: center;">Session 4B</p> <p style="text-align: center;">WEED SCIENCE</p> <p style="text-align: center;">Venue: Olive 4/5 Chairperson: Dr. Norsazilawati Saad</p>	<p style="text-align: center;">Session 4C</p> <p style="text-align: center;">WEED SCIENCE</p> <p style="text-align: center;">Venue: Olive 7/8 Chairperson: Dr. Nursyafiqi Zainuddin</p>

<p>1430 - 1445</p>	<p>4A1</p> <p>Field Evaluation of Spinetoram 250 WG for Oil Palm Bagworm (<i>Metisa plana</i>) Management Using Different Spraying Methods and Their Impact on Pollinating Weevils (<i>Elaeidobius kamerunicus</i>)</p> <p>Muhammad Raiyan Akif Bin Mohd Naspri</p>	<p>4B1</p> <p>Optimising Legume Cover Crop Establishment: A Comparative Study of Pre-emergent Herbicides in Immature Oil Palm Plantations</p> <p>Meor Badli Shah Ahmad Rafie</p>	<p>4C1</p> <p>Gene Flow and Spontaneous Mutation Responsible for Imidazolinone Herbicide-Resistant Weedy Rice in Malaysia</p> <p>Rabiatuladawiyah Ruzmi</p>
<p>1445 - 1500</p>	<p>4A2</p> <p>Population Dynamics of the Oil Palm Pollinating Weevil (<i>Elaeidobius kamerunicus</i>) in Coastal and Inland Oil Palm Fields</p> <p>Normahnani Md Noh</p>	<p>4B2</p> <p>Resistance Patterns and Mechanisms Towards Imidazolinone Herbicides in Malaysian Weedy Rice</p> <p>Mohammad Azizi Hj. Jamil</p>	<p>4C2</p> <p>Pro-205-Phe and Novel Thr-372-Ser and Substitutions in the Acetohydroxyacid Synthase (AHAS) Gene Confer AHAS Inhibitor Resistance in <i>Cyperus iria</i> from Sri Lanka and Malaysia</p> <p>Rajapakse Mudiyanse Upananda Sisira Bandara</p>
<p>1500 - 1515</p>	<p>4A3</p> <p>Repellent Effect of Bamboo Vinegar for Controlling Pineapple Mealybug, <i>Dysmicoccus brevipes</i></p> <p>Rosawanis Rosli</p>	<p>4B3</p> <p>Weedy Rice in Rice Agroecosystem: An Enemy or an Ally?</p> <p>Muhamad Shakirin Mispan</p>	<p>4C3</p> <p>Evaluation of <i>Clidemia hirta</i> (L.) D. Don. Resistance to Sulfonylurea Herbicides</p> <p>Sadat Elutola Babalola</p>

1515 - 1530	<p>4A4</p> <p>Managing the Parthenium Menace: Strategies to Combat Weed Invasion in Dhofar, Oman</p> <p><i>Ahmed Al-Maskari</i></p>	<p>4B4</p> <p>Weed Infestation Dynamics, Seedbank Composition, and Yield Impacts in Omani Wheat Fields</p> <p><i>Muhammad Farooq</i></p>	<p>4C4</p> <p>Enhancing Wheat Production and Food Security in Oman: The Socioeconomic Impact of Weed Infestation and Management Strategies</p> <p><i>Tarig Mohammed Gibreel</i></p>
1530 - 1545	<p>4A5</p> <p>Assessing the Effectiveness of Herbicides in Controlling <i>Clidemia hirta</i> in Oil Palm Plantations in Peninsular Malaysia</p> <p><i>Khairul Bariah Abu Hassan Asshaari</i></p>	<p>4B5</p> <p>The Effects of Glufosinate Ammonium and Metsulfuron Methyl on Oil Palm Plantation Soil Bacterial Diversity and Functions</p> <p><i>Nur Hailini Zainol Hilmi</i></p>	
1545 - 1615	Tea Break		
1930 - 2300	<p>Gala Dinner Venue: Ballroom</p>		
FRIDAY (27th SEPTEMBER 2024)			
0715 - 1300	<p>Penang Tour:</p> <p>Penang Historical Tour</p> <p>Penang Hill & the Habitat</p>		