

CONFERENCE PROGRAMME

2 nd March 2020		
3:00 - 5:30 pm	Registration Open	
3 rd March 2020		
8:00 - 9:00 am	Registration Open	
9:00 - 10:00 am	Opening Ceremony	
10:00 - 10:30 am	Coffee break / Poster presentation	
Chairperson: Prof. Dr. Ismanizan Ismail		
10:30 - 11:10 am	Keynote Prof. Dr. Harvey Millar (UWA, Australia)	Plant Protein Production: Its Role in Metabolism and Crop Growth and The Cost of Maintaining Specific Protein Types
BIOTECHNOLOGICAL APPLICATION IN BIODIVERSITY		&
SUSTAINABLE BIO-PRODUCTS		
11:10 - 11:40 am	Plenary 1 <i>(Biotechnological Application in Biodiversity)</i> Assoc. Prof. Dr. Tohge Takayuki (NAIST, Japan)	Metabolomics-Assisted Functional Genomics of Plant Phenolic Secondary Metabolism
11:40 - 12:10 noon	Plenary 2 <i>(Sustainable Bio-Products)</i> Prof. Dr. Rosli Md Illias (UTM, Malaysia)	Secretion System and Immobilization Based Strategies for Direct Conversion of Biomass to Bioproduct
Chairperson: Assoc. Prof. Dr. Syarul Nataqain Baharum		
12:10 - 12:35 noon	Technical talk 1 Dr. Jaran Jainhuknan (Bruker Daltonics, Thailand)	Ion Mobility-Enabled Mass Spectrometers for Detailed Analysis for Metabolomics and Proteomics in Biological and Clinical Research
12:35 - 12:50 noon	Talk 1 Dr. Leelatulasi Salwoom (UPM, Malaysia)	Characterisation and In silico Study of a Recombinant Cold Adapted Lipase from <i>Pseudomonas</i> Sp. Lsk25 Isolated from Signy Station, Antarctica
12:50 - 2:00 pm	LUNCH BREAK	
2:00 - 2:15 pm	Talk 2 Dr. Muhamad Hafiz Che Othman (FST, UKM, Malaysia)	Investigating the Roles of miRNA in Secondary Metabolite Production in <i>Mitragyna speciosa</i> through Next Generation Sequencing (NGS)
2:15 - 2:30 pm	Talk 3 Assoc. Prof. Dr. Geetha Subramaniam (INTI International University, Malaysia)	Effects of <i>Murraya koenigii</i> on Skin Wrinkles and Skin Whitening
2:30 - 2:40 pm	YRP 1 Ms. Matthlessa Matthew Minggu (INBIOSIS, UKM, Malaysia)	Development of Engineered <i>Escherichia coli</i> as Whole-Cell Biocatalysts for Surface Display of PET Plastic-Degrading Enzyme
2.40 – 2.50 pm	YRP 2 Mr. Naoto Ishitani (Ehime University, Japan)	Comparative Analysis of Morphological Identification, Metabarcoding of Bulk-Community and Environmental DNA of Stream Macroinvertebrates in Japan
*YRP 3 moved to 2 nd day (4:00 – 4:10 pm)		
2:50 - 3:20 pm	COFFEE BREAK / POSTER PRESENTATION	

Chairperson: Dr. Wan Mohd Aizat Wan Kamaruddin		
3:20 - 3:45 pm	Invited Speaker 1 (Biotechnological Application in Biodiversity) Assoc. Prof. Dr. Jalifah Latip (FST, UKM, Malaysia)	Biodiversity in phytochemist's view: Opportunity and challenges towards discovering anti-infective agents
3:45 - 4:10 pm	Invited Speaker 2 (Sustainable Bio-Products) Assoc. Prof. Dr. Mohamad Faizal Ibrahim (UPM, Malaysia)	Bioprocessing Strategies for Biobutanol Production from Agricultural Biomass
4:10 - 4:35 pm	Technical talk 2 Dr. Goh Lin Tang (Thermo Fisher Scientific, Singapore)	Unique Benefits Delivered by Orbitrap-based Mass Spectrometry Technology for Non-Targeted Analysis
4:35 - 5:00 pm	Technical talk 3 Dr. Dhaval Patel (Waters Pacific Pte Ltd, Singapore)	Applying Novel MS Technologies for Metabolomics of Natural Products
5:00 - 5:15 pm	Talk 4 Dr. Wan Mohd Aizat Wan Kamaruddin (INBIOSIS, UKM, Malaysia)	Mangosteen Seed Gets in Shape: Metabolic Regulation to Earmark Seed Development and Germination
5:15 pm	END	

4 th March 2020		
8:00 - 8:30 am	Registration Open	
FOOD SECURITY & ENRICHING WELLBEING AND HEALTH CARE		
Chairperson: Assoc. Prof. Dr. Goh Hoe Han		
8:30 - 9:00 am	Plenary 3 (Food Security) Dr. Meilina Ong Abdullah (MPOB, Malaysia)	'Omics' Platform and Big Data Biology in Ensuring Food Security
9:00 - 9:30 am	Plenary 4 (Enriching Wellbeing and Health Care) Assist. Prof. Dr. Viroj Boonyaratanakornkit (Chulalongkorn University, Thailand)	Progesterone Receptor Signaling: Implications Bioengineering and Precision Medicine
9:30 - 9:45 am	Talk 5 Dr. Siti Hasmah Mohtar (UNISEL, Malaysia)	Immunogenicity and Authenticity of Plant-Based Vp2 Protein of Malaysian Highly Virulent Infectious Bursal Disease Virus (Hvibdv) Expressed in <i>Nicotiana benthamiana</i>
9:45 - 10:00 am	Talk 6 Dr. Rozila Alias (UNISEL, Malaysia)	Rapid Identification of Selected Microbes and Antibiotic Detected from Healthy Gastrointestinal Tract (GIT) Chicken
10:00 - 10:20 am	COFFEE BREAK / POSTER PRESENTATION	
10:20 - 10:30 am	YRP 4 Mr. Andrew Kok De Xian (UPM, Malaysia)	Molecular and Physiological Responses of Recalcitrant Indica Rice to Pluronic F-68 during Callus Proliferation
10:30 - 10:40 am	YRP 5 Ms. Siti Aishah Abu Bakar (AMDI, USM, Malaysia)	Goniothalamin Inhibits Cell Growth, Induces Apoptosis and G2/M Cell Cycle Arrest in Human Osteosarcoma Cells Saos-2

10:40 - 10:50 am	YRP 6	Mr. Mohamad Haiqal Nizar Mohamad (UniKL MESTECH, Malaysia)	Neuroprotective Mechanism of Philanthotoxin-343 (PhTX-343) to Alleviate NMDA-Induced Retinal Ganglion Cell Damage in Rat Model involve Reduction of 3-Nitrotyrosine
Chairperson: Assoc. Prof. Dr. Ng Chyan Leong			
10:50 - 11:15 am		Technical talk 4 Ms. Becky Wong (BioSpensa Resources / m2p-labs Limited, Hong Kong)	Intelligent Microbioreactor Platform for Early Bioprocess Development
11.15 – 11.40 am		Technical talk 5 Mr. Roy Lim (BUCHI Malaysia Sdn. Bhd.)	Automated Flash and Preparative Chromatography System with Integrated Evaporative Light Scattering Detector
11:40 - 11:50 am	YRP 7	Ms. Siti Noor Fatimah Ismail (INBIOSIS, UKM, Malaysia)	A Synthetic Biology Approach to Synthesize Attenuated <i>Macrobrachium rosenbergii</i> Nodavirus Using Reverse Genetics Tool
11:50 -12:00 noon	YRP 8	Ms. Siratulakma Abdul Rahman (UMP, Malaysia)	Molecular Modelling: Study of Some Novel Compounds to Be Screened for Anti-Dengue and Anti-Malaria Efficacy
12:00 - 12:10 noon	YRP 9	Mr. Ian Ilham Rasyid (USM, Malaysia)	Transcriptomic Analysis and Gene Expression Profiling of Ageing <i>Drosophila melanogaster</i>
12:10 - 12:20 noon	YRP 10	Mr. Wan Muhamad Asrul Nizam Wan Abdullah (UPM, Malaysia)	Activation of Vacuolar Processing Enzyme Activity Enhances Susceptibility Response Towards <i>Fusarium oxysporum</i> F. sp. cubense Tropical Race 4 Infection in Banana
12:20 – 12:30 noon	YRP 11	Mr. Azali Azlan (USM, Malaysia)	Systematic Identification and Characterization of <i>Aedes aegypti</i> Long noncoding RNA's (lncRNAs)
12:30 – 12:40 noon	YRP 12	Ms. Ili Nadhirah Jamil (INBIOSIS, UKM, Malaysia)	Multomics Integration of Mangosteen (<i>Garcinia mangostana</i>) Ripening
12:40 – 12:50 noon	YRP 13	Ms. Hasna Ahmad (IIUM, Malaysia)	Development of CRISPR-Cas9 Ribonucleoprotein Complex Platform for Targeted Disruption of Candidalysin in <i>Candida albicans</i>
12:50 – 1:00 pm	YRP 14	Ms. Ummul Syafiqah Ruslan (INBIOSIS, UKM, Malaysia)	Development of <i>Corynebacterium glutamicum</i> as Genetically Encoded Biosensor Platform for Detection of Pathogenic <i>Staphylococcus aureus</i> via Specific AND Genetic Logic Circuit
1:00 - 2:00 pm	LUNCH BREAK		
Chairperson: Assoc. Prof. Dr. Zeti Azura Mohamed Hussein			
2:00 - 2:25 pm		Invited Speaker 3 (Food Security) Assoc. Prof. Dr. Subha Bhassu (UM, Malaysia)	System Biology of Crustacean Modelling Using Synthetic Peptide Approach in Understanding Innate Immune Adaptation
2:25 – 2:50 pm		Invited Speaker 4 (Enriching Wellbeing and Health Care) Assoc. Prof. Dr. Altaf-Ul-Amin (NAIST, Japan)	Applications of KNApSACK Database and DPCLus Algorithm: Plants to Metabolites to Target Proteins in the Context of Jamu Medicines and IBD Gene Prediction
2:50 - 3:00 pm	YRP 15	Mr. Srisan Phupaboon (Khon Kaen University, Thailand)	<i>Prt</i> Gene Detection and Proteolysis Activity of Proteolytic Lactic Acid Bacteria Isolated from <i>Pla-Som</i> (Thai Fermented Fish)
3:00 - 3:20 pm	COFFEE BREAK / POSTER PRESENTATION		

3:20 - 3:30 pm	YRP 16	Mr. Hirose (NAIST, Japan)	Construction of Schizophrenia and Bipolar Disorder Related Protein-Protein Interaction Network for Pathway Analysis
3:30 - 3:40 pm	YRP 17	Ms. Zainah Abdul Sattar (MSU, Malaysia)	Protein-Protein Interaction Network Analysis and The Functional Enrichment Analysis of Nasopharyngeal Carcinoma
3:40 - 3:50 pm	YRP 18	Mr. Mohamad Hazwan Fikri Bin Khairi (INBIOSIS, UKM, Malaysia)	Identification of Effector Proteins in Oil Palm Pathogen <i>Ganoderma boninense</i> using Genome-Wide In silico Analysis
3:50 - 4:00 pm	YRP 19	Mr. Muhammad Fattah Fazel (UniKL MESTECH, Malaysia)	Phlathotoxin-343 (PhTX-343) as a Neuroprotective Agent in NMDA-induced Retinal and Optic Nerve Damage in Sprague-Dawley Rats
4:00 – 4:10 pm	YRP 3	Mr. Mohammed Umar Mustapha (Yobe State University, Nigeria)	Carbofuran Insecticide Degradation Using Free and Immobilized Cells of Bacteria Isolated from Malaysian Soil
4:10 – 4:40 pm	<p style="text-align: center;">PRESENTATION OF AWARDS - Best Poster Award - Best Oral Presentation Awards - Travel grant award - Closing Speech by ARCSB2020 Chairperson</p>		
CONFERENCE END			