

8th ICMBB 2025

Conference Programme

DAY 1: 25 June 2025 (Wednesday)	
Time	Item
8.00 – 8.50 am	Registration of Participants & Refreshment
AUDITORIUM 1	
Opening Ceremony, Keynote Session, Awarding Session, and Tech Talk	
8.50 – 9.00 am	Arrival of VIPs and Guests, Welcome by Master of Ceremony and House Rules <i>Emcee: (Protocol team)</i>
9.00 – 9.05 am	Lagu Negaraku
9.05 – 9.10 am	Du'a Recitation
9.10 – 9.15 am	Opening Remarks Assoc. Prof. Dr. Jamal Houssaini <i>Organizing Chairperson for 8th ICMBB 2025</i>
9.15 – 9.35 am	Welcoming Speech and Officiation Professor Ir. Ts. Dr. Mohamad Hafiz Mamat <i>Deputy Rector (Research & Innovation) Universiti Teknologi MARA Cawangan Selangor</i>
9.35 – 9.45 am	MSMBB Best Scientist Awards
9.45 – 9.50 am	Group photo
9.50 – 10.30 am	Keynote 1 Toward a Cell-Type-Specific Understanding of Complex Diseases Asst. Prof. Dr. Liu Boxiang <i>National University of Singapore</i> <i>Chairperson: Assoc. Prof. Dr Navindra Kumari Palanisamy, Universiti Teknologi MARA</i>
10.30 – 10.45 am	Tech Talk 1 Digitalising Biotechnology for Diagnostic & Therapeutics : From R&D to Commercialization Mr. Tang Kok Mun <i>Biogenes Technologies Sdn. Bhd.</i>
10.45 – 10.50 am	Lucky Draw
10.50 – 10.55 am	Participants Disperse into Plenary Halls

CONCURRENT SESSION 1 (11.00 - 12.00 pm)	AUDITORIUM 1	AUDITORIUM 2
	O1. Environmental Biotechnology & Molecular Biology <i>Chairperson:</i> <i>Assoc. Prof. Ts. Dr. Eugenie Tan Sin Sing, UCSI University</i>	O2. Medical Biotechnology & Molecular Biology <i>Chairperson:</i> <i>Asst. Prof. Ts. Dr. Michelle Teo Yee Mun, UCSI University</i>
11.00 – 11.35 am	Plenary Talk 1 Microbial -Omics Data for Analysis and Prediction Studies in Environmental Microbiology <i>Prof. Dr. Adeline Ting Su Yien</i> <i>Monash University Malaysia</i>	Plenary Talk 2 AI Meets Immunity: Rewiring Resistant Pancreatic Tumours with Repurposed Drugs <i>Prof. Dr. Mai Chun Wai</i> <i>IMU University</i>
11.35 – 12.00 pm	Invited Talk 1 Microalgae Biotechnology: Views in Upstream and Downstream Processing <i>Asst. Prof. ChM. Dr. Khoo Kuan Shiong</i> <i>Yuan Ze University, Taiwan</i>	Invited Talk 2 Osteosarcoma: The 'Omics' Towards Disease Progression <i>Assoc. Prof. Dr Sharaniza Ab. Rahim</i> <i>Universiti Teknologi MARA</i>
12.00 – 12.10 pm	Short Break	
CONCURRENT SESSION 2	Oral Presentations	
	AUDITORIUM 1	AUDITORIUM 2
	O3. Environmental/Agricultural/ Aquacultural Biotechnology & Molecular Biology <i>Chairperson:</i> <i>Dr. Muhamad Naim Abd Malek, Universiti Tunku Abdul Rahman</i>	O4. Medical Biotechnology & Molecular Biology <i>Chairperson:</i> <i>Assoc. Prof. Dr. Nazefah Abdul Hamid, Universiti Sains Islam Malaysia</i>
12.10 – 12.22 pm	1. OE001 - Exploring the Cellulolytic Potential of <i>Hahella</i> sp. for Plant Biomass Degradation <i>Mr. Melvin Tan Chun Yun</i> <i>Universiti Teknologi Malaysia</i>	7. OM004 - The Antiproliferative Effect of Madecassoside Derived from <i>Centella asiatica</i> on Prostate Cancer Cells <i>Ms. Anis Nadia Zulkifli</i> <i>Universiti Teknologi MARA</i>
12.22 – 12.34 pm	2. OE002 - Association between Water and Soil Quality and the Environmental Microbiome in the Temuan Orang Asli Village, Serendah, Malaysia <i>Ms. Aishath Malsa Maumoon</i> <i>Universiti Teknologi MARA</i>	8. OM005 - Combating Biofilms in Multidrug-Resistant Bacteria with <i>Salvadora persica</i> <i>Mr. Mohammed Hussain Abdulrazak</i> <i>Universiti Sains Malaysia</i>
12.34 – 12.46 pm	3. OE003 - A Second Life for Data: Repurposing Genomic data of Lignocellulolytic <i>Meridianimaribacter</i> sp. CL38 to Uncover its Potential as A Pigment-Producing Biofactory <i>Asst. Prof. Dr. Lam Ming Quan</i> <i>Universiti Tunku Abdul Rahman</i>	9. OM006 - Detection of <i>Corynebacterium diphtheriae</i> using High Affinity DNA Aptamers: Design and Development for Future Point-of-Care Testing Applications for Exotoxin <i>Mr. Surdensteeve Peter</i> <i>Universiti Teknologi MARA</i>

12.46 – 12.58 pm	4. OE004 - Molecular Identification, Risk Factors, and Antifungal Susceptibility of <i>Cryptococcus neoformans</i> Isolated from Bird Droppings in Peninsular Malaysia: Current Epidemiological Insights Dr. Azdayanti Muslim <i>Universiti Teknologi MARA</i>	10. OM007 - Evaluation of Insulin Expression and Secretion in Genetically Engineered Gut L-Cells Assoc. Prof. Dr. Zalinah Ahmad <i>Universiti Putra Malaysia</i>
12.58 – 1.10 pm	5. OA001 - Black Soldier Fly (<i>Hermetia illucens</i>) Larvae frass: a Sustainable Biostimulant for Enhanced Soil Properties and Bok Choy Growth Mr. Azrul Afiq Azmi Murad <i>Universiti Putra Malaysia</i>	11. OM008 - Evaluation of Antimicrobial Photosensitiser-Incorporated Poly(glycolic) Acid Scaffolds for Enhanced Cell Attachment and Proliferation Dr. Rina Haryani Osman Basah <i>Universiti Sains Islam Malaysia</i>
1.10 – 1.22 pm	6. OA002 - Effects of <i>Salvinia</i> sp.'s Extract-enriched Diet on Disease Resistance in River Catfish (<i>Hemibagrus capitulum</i>, Popta 1906) Challenged with <i>Aeromonas hydrophila</i> Mr. Iftikhar Ahmad Abdul Rafi <i>Fisheries Research Institute, Glami Lemi, Malaysia</i>	12. OM009 - Impact of IL-6 Promoter Polymorphisms on Gene Expression and Disease Susceptibility in Javanese Postmenopausal Women with Hypertension and Obesity Dr. Sri Lestari Utami <i>Universitas Wijaya Kusuma Surabaya, Indonesia</i>
1.25 – 2.25 pm	Lunch Break	
CONCURRENT SESSION 3	AUDITORIUM 1	AUDITORIUM 2
	O5. Multi-Omics and Bioinformatics/ Medical Biotechnology & Molecular Biology <i>Chairperson:</i> Dr. Lim Si Jie, <i>National University of Singapore</i>	O6. Medical Biotechnology & Molecular Biology <i>Chairperson:</i> Dr. Arutchelvan Rajamanikam, <i>Universiti Malaya</i>
2.30 – 2.42 pm	13. OB001 - Whole Genome Sequence Analysis of <i>Mycobacterium tuberculosis</i> in Sabah: A Genomic Perspective Ts. Jaeyres Jani <i>Universiti Malaysia Sabah</i>	19. OM010 - Synthesis of Chitosan Nanoparticles Encapsulated with Herbs Infused Essential Oils and the Evaluation of their Antibacterial Activity Ms. Emmanuelle Darshini Anthony <i>Universiti Tunku Abdul Rahman</i>
2.42 – 2.54 pm	14. OB002 - <i>In silico</i> Identification of B-Cell and T-Cell Epitopes from Chikungunya Virus Structural Proteins for Peptide-Based Vaccine Development Ms. Hanis Nabilah Mohd. Nazman <i>Universiti Sains Malaysia</i>	20. OM011 - Optimizing Multiplex Real-Time PCR for Viral Encephalitis Detection: A Comparative Study of Three Molecular Techniques Ms. Sharifah Aliah Diyanah Syed Hussin <i>Universiti Teknologi MARA</i>

2.54 – 3.06 pm	15. OB003 - Investigating the Impact of Cell Cycle Inhibition on Metabolic Pathways in RUNX1::ETO Leukaemia Mr. Muhamad Amir Azizan <i>Universiti Sains Malaysia</i>	21. OM012 - Simultaneous Activation and Inhibition of Autophagy: A Novel Strategy to Induce Autophagy-Dependent Cell Death Mr. Chua Yie Wei <i>Monash University Malaysia</i>
3.06 – 3.18 pm	16. OM001 - Can Vitamin E Revert Chemoresistance in High-Risk Neuroblastoma? Ms. Wong En Tong <i>University of Nottingham Malaysia</i>	22. OM013 - Cytoplasmic Localization of ADAR1p150 is Critical for OSCC Cell Survival Ms. Sarah Izzati Izzat Azrai <i>Universiti Sains Malaysia</i>
3.18 – 3.30 pm	17. OM002 - The Effect of Tualang Honey on Gene Expression of Liver Lipid Metabolizing Enzymes in 12% High Cholesterol Diet-Induced Obese Rats Ms. Nabihah Abu Hanifah <i>International Islamic University Malaysia</i>	23. OM014 - Investigating the Effect of Penfluridol, 5-Fluorouracil, and their Combination on Human Colorectal Cancer HT-29 and DLD-1 cells Ms. Asma Ali Ibrahim Mze <i>Universiti Teknologi MARA</i>
3.30 – 3.42 pm	18. OM003 - Anti-Skin Aging, Antioxidant and Anti-Inflammatory Effects of Rhizophora apiculata Wood Vinegar Distillate Ms. Ng Suet Ying <i>Tunku Abdul Rahman University of Management and Technology</i>	24. OM015 - Analysis of IL-6 Levels in Hydrogel Bone Graft Procedures After Post-Tooth Extraction Inflammation in Menopausal Rats Dr. Wahyuni Dyah Parmasari <i>Universitas Wijaya Kusuma Surabaya, Indonesia</i>
3.45 pm	Tea Break & Expert Sharing Session	
3.50 – 5.00 pm	Poster Competition 1 (P1 – P7) Refer to here for the schedule: LINK	
5.00 pm	End of Day 1	

DAY 2: 26 June 2025 (Thursday)		
Time	Item	
8.00 – 8.50 am	Registration of Participants & Refreshment	
AUDITORIUM 1		
Keynote Session and MSMBB EduSTEM Presentation		
8.50 – 9.00 am	Welcome by Master of Ceremony and House Rules Emcee: (Protocol team)	
9.00 – 9.40 am	Keynote 2 The Influence of AI in Bioinformatics Research, University Education, and Management Prof. Dr. Mohd Shahir Shamsir Omar Universiti Teknologi Malaysia Chairperson: Assoc. Prof. Dr Kanthimathi MS Subramaniam, Universiti Malaya	
9.40 – 9.55 am	MSMBB EduSTEM Presentation 1 The Dichotomy of Alien Species: Beauty and Ugliness Dr. Lau Su Ee Universiti Malaya	
9.55 – 10.05 am	MSMBB EduSTEM Presentation 2 (Recorded video) OH! CRAB: A Gamified Exploration of Crab Biology and Fisheries Around Us! Dr. Khor Wai Ho Universiti Malaysia Terengganu	
10.05 – 10.15 am	Lucky Draw	
10.15 – 10.25 am	Participants Disperse into Plenary Halls	
CONCURRENT SESSION 4	AUDITORIUM 1	AUDITORIUM 2
	O7. Agricultural/Aquacultural Biotechnology & Molecular Biology Chairperson: Dr. Lau Su Ee, Universiti Malaya	O8. Food/Industrial Biotechnology & Molecular Biology Chairperson: Asst. Prof. Dr. Chang Lee Sin, UCSI University
10.35 – 11.10 am	Plenary Talk 3 Smelling the Future: Electronic Nose and Intelligent Modeling for Ripeness Detection and Breath-Based Disease Diagnosis Prof. Dr. Chen Zhi Yuan University of Nottingham Malaysia	Plenary Talk 4 Bioprospecting Tropical Plant Functional Genomics for Food Biotechnology Assoc. Prof. Dr. Goh Hoe Han Universiti Kebangsaan Malaysia
11.10 – 11.35 am	Invited Talk 3 Molecular Insights into Banana Fusarium Wilt and its Pathogen, <i>Fusarium oxysporum</i> f. sp. cubense	Invited Talk 4 Bridging Cellular and Culinary Innovations: Development of the World's First Cultivated Fish Fat

	Assoc. Prof. Dr. Noor Baity Saidi <i>Universiti Putra Malaysia</i>	Dr. Ong Wee Kiat <i>ImpacFat, Singapore</i>
11.35 – 11.45 am	Short Break	
CONCURRENT SESSION 5	AUDITORIUM 1	SEMINAR ROOM
	O9. Agricultural/Aquacultural/Food/Industrial Biotechnology & Molecular Biology <i>Chairperson:</i> Assoc. Prof. Dr. Chew Yik Ling, <i>UCSI University</i>	O10. Medical Biotechnology & Molecular Biology <i>Chairperson:</i> Prof. Dr. Pung Yuh Fen, <i>University of Nottingham Malaysia</i>
11.45 – 11.57 am	25. OA003 - The WRKY2 Transcription Factor Improves Transgenic <i>Arabidopsis thaliana</i> Tolerance to Salinity Stress Assoc. Prof. Ts. Dr. Kamariah Hasan <i>QIU International University</i>	30. OM016 - Optimizing Golgi-Cox Staining: Evaluating Rotary Microtome Sectioning as an Alternative to Traditional Method Mr. Mohamad Hisham Hashim <i>Management and Science University</i>
11.57 – 12.09 pm	26. OA004 - Development and Evaluation of Black Soldier Fly (<i>Hermetia illucens</i>) Diets for Sustainable Indoor Culture of <i>Meretrix lyrata</i> : Growth, Physiological, and Transcriptomic Responses Assoc. Prof. Dr. Baskaran Gunasekaran <i>UCSI University</i>	31. OM017 - Development of Sandwich Enzyme-Linked Aptasorbent Assay (ELASA) for SARS-CoV-2 Detection Mr. Amir Muhaimin Akmal Shukri <i>Universiti Teknologi MARA</i>
12.09 – 12.21 pm	27. OF001 - Evaluation of Sea Cucumber By-product Protein Hydrolysate Asst. Prof. Dr. Chang Lee Sin <i>UCSI University</i>	32. OM018 - Supercritical CO ₂ -Extracted Malaysian Stingless Bee Propolis Exhibits Antidiabetic Effects via Hepatic Gluconeogenesis Inhibition but Modifies Metformin's Efficacy <i>in vivo</i> Ms. Rania Eltayeb Eltahir Ibrahim <i>Universiti Tunku Abdul Rahman</i>
12.21 – 12.33 pm	28. OF002 - Metabolic Rescue in a Tropical Fruit: The Promise of Mangosteen for Obesity-Related Disorders Assoc. Prof. Dr. Wan Mohd Aizat Wan Kamaruddin <i>Universiti Kebangsaan Malaysia</i>	33. OM019 - Downregulation of miR-20a-5p: A Potential Biomarker for Premenopausal Triple-Negative Breast Cancer (TNBC) Ms. Nurhanis Fasihah Muhamad <i>Universiti Sains Malaysia</i>
12.33 – 12.45 pm	29. OF003 - Advancing Nanoemulsion Formulation with Lipase-Synthesized Glucose Monooleate for Nutraceutical Applications	34. OM020 - Rare Transformation of Extramedullary Plasmacytoma to Plasmablastic Myeloma: A Case Report and Diagnostic Considerations

	Dr. Khairul Anwar Ishak <i>Universiti Kebangsaan Malaysia</i>	Dr. Budiono Raharjo <i>Universitas Wijaya Kusuma Surabaya, Indonesia</i>
12.45 – 1.45 pm	Lunch Break	
CONCURRENT SESSION 6	AUDITORIUM 1	AUDITORIUM 2
	O11. Multi-Omics and Bioinformatics <i>Chairperson:</i> <i>Asst. Prof. Dr. Lam Ming Quan,</i> <i>Universiti Tunku Abdul Rahman</i>	O12. Multi-Omics and Bioinformatics <i>Chairperson:</i> <i>Dr. Amirah Abdul Rahman,</i> <i>Universiti Teknologi MARA</i>
1.50 – 2.25 pm (Plenary) / 1.50 – 2.15 pm (Invited)	Plenary Talk 5 Adaptive Variation Signatures in Asian Genomes Prof. Dr. Qasim Ayub <i>Monash University Malaysia</i>	Invited Talk 5 Integrating Metabolomics and Peptidomics to Explore the Green Frog (<i>Hylarana erythraea</i>) Skin Secretome: Implications for Ecology and Biomedicine Assoc. Prof. ChM. Dr. Mohd Nazri Ismail <i>Universiti Sains Malaysia</i>
2.25 – 2.37 pm	35. OB004 - Uncovering the Transcription Factor Network Driving KLF6 Expression through Super Enhancers in Renal Cell Carcinoma Ts. Dr. Saiful Effendi Syafruddin <i>Universiti Kebangsaan Malaysia</i>	38. OB007 - Molecular Insights of miR-100-5p and miR-141-3p in Tumor Progression of HPV-Mediated Cervical Carcinogenesis Ms. Nur Sabrina Abd Rashid <i>Universiti Sains Malaysia</i>
2.37 – 2.49 pm	36. OB005 - Integrated Approach Combining <i>in vitro</i> Assays and Computational Protein Docking Elucidates Protein Interaction Between Outer Membrane Protein A of <i>Orientia tsutsugamushi</i> with Human Endothelial Cells Ms. Noor Hanisa Harun <i>Universiti Teknologi MARA</i>	39. OB008 - Genotype-Driven Herbal Therapy: Investigating HFE H63D Variant and Iron Regulation Ms. Aishah Farliani Shirat <i>Universiti Teknologi MARA</i>
2.49 – 3.01 pm	37. OB006 - Differential Gene Expression Profiling in Malaysian Multiple Myeloma using RNA Sequencing: A Pilot Study Ms. Nor Soleha Mohd Dali <i>Institute for Medical Research, Malaysia</i>	40. OB009 - From CRISPR to Computational Insights: A Holistic Approach to Uncover Drug Resistance Mutations in <i>Plasmodium falciparum</i> Dr. Noor Azian Md Yusuf <i>Institute for Medical Research, Malaysia</i>
3.05 – 3.55 pm	Poster Competition 2 (P8 – P13) Refer to here for the schedule: LINK	
3.55 – 4.25 pm	Tea Break & Expert Sharing session	
AUDITORIUM 1		
Closing Ceremony and Prize Giving		

4.25 – 4.30 pm	Participants Gather at Auditorium 1
4.30 – 4.40 pm	Booth Hunt Lucky Draw
4.40 – 4.55 pm	Closing Remarks and MSMBB Council Introduction Assoc. Prof. Dr. Tan Boon Chin <i>MSMBB President 2025/2027</i>
4.55 – 5.30 pm	Prize Giving & Group Photo Session
5.30 pm	End of Day 2