

DETAILS OF SCHEDULE
5TH MOLECULAR, CELLULAR, AND LIFE SCIENCE (MCLS 2026)
13 - 16TH OCTOBER 2026
PULAI SPRING RESORT, JOHOR BAHRU, MALAYSIA

DAY 0: 13TH OCTOBER 2026 (TUESDAY)

Duration	Time (MYT)		Activity
3:00:00	3:00: PM	- 6:00: PM	Check-in Hotel & Rest

DAY 1: 14TH OCTOBER 2026 (WEDNESDAY)

Location: Dewan Inderaputra

Morning Session

Duration	Time (MYT)		Activity
1:00:00	8:00: AM	- 9:00: AM	Registration
			OPENING CEREMONY 5TH MCLS 2026
0:10:00	9:00: AM	- 9:10: AM	Arrival of VVIP Guests Negaraku Anthem
0:10:00	9:10: AM	- 9:20: AM	Welcoming remark by President WUACD Prof. Dr. Muhammad Madyan
0:10:00	9:20: AM	- 9:30: AM	Welcoming remark by Chair MCLS (UTM) Prof. Ir. Ts. Dr. Roshanida A. Rahman
0:10:00	9:30: AM	- 9:40: AM	Opening remark by Deputy Vice-Chancellor (Research & Innovation) Prof. Ts. Dr. Ali bin Selamat
0:10:00	9:40: AM	- 9:50: AM	Montage MCLS
0:10:00	9:50: AM	- 10:00: AM	Group Photography
0:30:00	10:00: AM	- 10:30: AM	MORNING BREAK
0:30:00	10:30: AM	- 11:00: AM	Keynote Speaker 1: Prof. Dr. Rosli bin Md Illias (Universiti Teknologi Malaysia, Malaysia)
0:30:00	11:00: AM	- 11:30: AM	Keynote Speaker 2: Prof. Dr. Bauke W. Dijkstra (University of Groningen, Netherlands)
0:30:00	11:30: AM	- 12:00: PM	Keynote Speaker 3: Prof. Dr. Kazuhito Fujiyama (The University of Osaka, Japan)
2:30:00	12:00: PM	- 2:30 PM	LUNCH BREAK Cinta Terrace Restaurant

DAY 1: 14TH OCTOBER 2026 (WEDNESDAY)

Location: Dewan Inderaputra

Afternoon Session

PARALLEL SESSION 1 Chairperson: Assoc. Prof. Ir. Ts. Dr. Nur Izyan binti Wan Azelee Assistant Chairperson: Siti Nur Sakinah binti Ahmad				
Duration	Time (MYT)			Activity
0:20:00	2:30 PM	-	2:50 PM	Invited Speaker 1 Assoc. Prof. Dr. Piyarat Boonsawang (Prince of Songkla University) <i>Valorization of Palm Oil Mill Effluent for the Concurrent Production of Bio-succinic Acid and Polyhydroxyalkanoates (PHA)</i>
0:20:00	2:50 PM	-	3:10 PM	Invited Speaker 2 Dr. Nor Hasmaliana Abdul Manas (Universiti Malaysia Pahang Al-Sultan Abdullah) <i>Co-Entrapment of Starch-Hydrolyzing Enzymes in Hydrogel Matrix Systems for Continuous Biocatalysis</i>
0:15:00	3:10 PM	-	3:25 PM	Lailatul Fithri, S.Si., M.Si. (Universitas Airlangga) <i>Isolation and Delignification of Cellulose from Agro-Biomass via Chemical-Enzyme Treatment</i>
0:15:00	3:25 PM	-	3:40 PM	Nur Fashya binti Musa (Universiti Teknologi Malaysia) <i>Phytochemical Characterization and LC–MS Profiling of Amorphophallus Stem Sap: Exploring Its Potential as a Natural Cleaning Agent</i>
0:15:00	3:40 PM	-	3:55 PM	TEA BREAK
0:15:00	3:55 PM	-	4:10 PM	Megawati Ayu Putri., S.Si., M.Si (Universitas Airlangga) <i>Fe₃O₄ Nanoparticles as Immobilized β-D-Xylosidase Matrix for Biomass Degradation</i>
0:15:00	4:10 PM		4:25 PM	Dr. Mohammad Nashriq bin Jailani (Universiti Teknologi Malaysia) <i>Kinetic Model Development for Describing Simultaneous Hydrolysis and Transglycosylation Catalyzed by Maltogenic Amylase in Oligosaccharide Synthesis</i>
0:15:00	4:15 PM	-	4:30 PM	R Aryabraga Rusdipoetra, S.Si., M.Si (Universitas Airlangga) <i>Radical Scavenging Mechanism Study of Syringol Derivatives and Components of Lignin using QM-ORSA Protocol</i>
0:15:00	4:30 PM	-	4:45 PM	Reiza Mutia, S.T.P., M.Eng. (Universiti Teknologi Malaysia) <i>Comparative Study of Bacterial Cellulose Production from Pure and Supplemented Oil Palm Frond Juice Under Different Incubation Periods</i>
0:15:00	4:45 PM	-	5:00 PM	Ni Nyoman Purwani, S.Si., M.Si (Universitas Airlangga) <i>Discovery of a New Class of Bacterial Heme-Containing C=C Cleaving Oxygenases</i>
END OF CONFERENCE DAY 1				

DAY 1: 14TH OCTOBER 2026 (WEDNESDAY)**Location: Maharaja Suites****Afternoon Session**

PARALLEL SESSION 2 Chairperson: Assoc. Prof. Ir. Ts. Dr. Zanariah binti Hashim Assistant Chairperson: Sapiah binti Sulaiman				
Duration	Time (MYT)			Activity
0:20:00	2:30 PM	-	2:50 PM	Invited Speaker 3 Dr. Wan Nur Ismah binti Wan Ahmad Kamil (Universiti Putra Malaysia) <i>Harnessing Microbial Bioactive Compounds for Sustainable Antimicrobial Strategies Against Methicillin-Resistant Staphylococcus aureus</i>
0:20:00	2:50 PM	-	3:10 PM	Invited Speaker 4 Dr. Raja Ili Airina binti Raja Khalif (Universiti Malaysia Kelantan) <i>From Cell to Farm: The Future of Livestock Reproductive Biotechnology</i>
0:15:00	3:10 PM	-	3:25 PM	Yesi Maysita, S.Si., M.Si. (Universitas Airlangga) <i>A Novel Broad-Specificity GH51 α-L-arabinofuranosidase from Paenibacillus antarcticus and Its Synergy with Xylanolytic Enzymes for Complete Arabinoxylan Saccharification</i>
0:15:00	3:25 PM	-	3:40 PM	Alia Sabrina binti Zulkornain (Universiti Teknologi Malaysia) <i>Extraction of Lignin From Coconut Husk for Anti-UV Properties</i>
0:15:00	3:40 PM	-	3:55 PM	TEA BREAK
0:15:00	3:55 PM	-	4:10 PM	ChM. Ts. Dr. Norliza binti Abdul Latiff (Universiti Teknologi Malaysia) <i>Enhancing Agarwood (Gaharu) Oil Extraction for Fragrance Product Development</i>
0:15:00	4:10 PM		4:25 PM	Darmawan Alisaputra, S. Si., M. Si. (Universitas Airlangga) <i>In Silico Design and Structural Analysis of a CBM-Amylase Fusion Protein</i>
0:15:00	4:15 PM	-	4:30 PM	Siti Aisyah binti Mohd Dolit (Universiti Teknologi Malaysia) <i>Comparative Evaluation of Freeze-Drying Behaviour of Various Food Materials using a Laboratory-Scale Freeze Dryer</i>
0:15:00	4:30 PM	-	4:45 PM	Hary Isnanto, M.Sc (Universitas Airlangga) <i>Genomic and Indigenous Plasmid Characterization of A Palm Kernel Cake Bacterium</i>
0:15:00	4:45 PM	-	5:00 PM	Tanusha Siva Kumar (Universiti Teknologi Malaysia) <i>Comparison of Chemical Hydrolysis and Enzymatic Assay Methods for Glucomannan Quantification in NanoFast-Treated Amorphophallus muelleri Tubers</i>
END OF CONFERENCE DAY 1				

DAY 2: 15TH OCTOBER 2026 (THURSDAY)**Location: Dewan Inderaputra****Morning Session**

Duration	Time (MYT)			Activity
1:00:00	8:00: AM	-	9:00: AM	Registration
0:30:00	9:00: AM	-	9:30: AM	Keynote Speaker 4: Prof. Dr. Hesham Ali Metwally Ali El-enshasy (Universiti Teknologi Malaysia)
0:30:00	9:30: AM	-	10:00: AM	Keynote Speaker 5: Dr. Ali Rohman (Universitas Airlangga)
0:30:00	10:00: AM	-	10:30: AM	Keynote Speaker 6: Prof. Dr. Kohsuke Honda (The University of Osaka)
0:30:00	10:30: AM	-	11:00: AM	MORNING BREAK

DAY 2: 15TH OCTOBER 2026 (THURSDAY)**Location: Dewan Inderaputra****Morning Session**

PARALLEL SESSION 1 Chairperson: Dr. Nardiah Rizwana binti Jaafar Assistant Chairperson: Ts. Nur Suzana Adlizan binti Jasni				
Duration	Time (MYT)			Activity
0:20:00	11:00 AM	-	11:20 AM	Invited Speaker 5 Assoc. Prof. Ir. Ts. Dr. Rosnani Bte Hasham @ Hisam ((Universiti Teknologi Malaysia) <i>Integrating Sustainable Extraction, Cellular Bioassays, Metabolomics, and Molecular Docking to Investigate the Anti-Adipogenic Potential of Eurycoma longifolia Root</i>
0:20:00	11:20 AM	-	11:40 AM	Invited Speaker 6 Dr. Shamrulazhar bin Shamzir Kamal (Universiti Malaysia Sarawak) <i>Bioinnovation from Borneo's Mangroves: The Sustainable Bioresource Potential of Thalassina Anomala</i>
0:15:00	11:40 AM	-	11:55 AM	Noorzetty Akhtar binti Zakaria (Universiti Teknologi Malaysia) <i>Purification of Glucomannan from Amorphophallus muelleri Flour using Ethanol Extraction</i>
0:15:00	11:55 AM	-	12:10 PM	Nur Azra binti Zulkepli (Universiti Teknologi Malaysia) <i>Evaluation of Glucomannan Content in Amorphophallus muelleri under Varying Planting Conditions</i>
0:15:00	12:10 PM	-	12:25 PM	Krishantinee Gobi (Universiti Malaysia Pahang Al-Sultan Abdullah) <i>Bioactive Compounds Profiling and Encapsulation of Saussurea lappa</i>
2:05:00	12:25 PM	-	2:30 PM	LUNCH BREAK <i>Cinta Terrace Restaurant</i>

DAY 2: 15TH OCTOBER 2026 (THURSDAY)**Location: Maharaja Suites****Morning Session**

PARALLEL SESSION 2 Chairperson: Dr. Nor Hasmaliana binti Abdul Manas Assistant Chairperson: Fa'ezah binti Abd. Hadi				
Duration	Time (MYT)			Activity
0:20:00	11:00 AM	-	11:20 AM	Invited Speaker 8 Dr. Sharifah Alawieyah Syed Mortadza (Universiti Putra Malaysia) <i>Targeting the ROS/TRPM2/Ca²⁺ Signalling Axis in Aβ42-Induced Microglial Dysfunction: Therapeutic Potential of Papaya Leaf Phytochemicals in Alzheimer's Disease</i>
0:20:00	11:20 AM	-	11:40 AM	Invited Speaker 9 Dr. Rahmat Eko Sanjaya, M.Si. (Universitas Lambung Mangkurat) <i>Stability and Thermodynamics Properties of Halophilic Cellulase Derived from Metagenomic Approach of Oil Palm Waste Soil</i>
0:15:00	11:40 AM	-	11:55 AM	Aiman Farhana binti Azaddin (Universiti Teknologi Malaysia) <i>Comparative Study on the Purification of Glucomannan via One-Step Ethanol Extraction and its Impact on Hydrogel Mechanical Properties</i>
0:15:00	11:55 AM	-	12:10 PM	Dr. Nur Aizura binti Mat Alewi (Universiti Teknologi Malaysia) <i>Synthesis Optimization of Imidazole–Copper(II) Nitrate Trihydrate Nanozymes for Enhanced Laccase-Like Catalytic Activity and Stability</i>
0:15:00	12:10 PM	-	12:25 PM	Aelia Insyeera binti Mohd Hishamuddin (Universiti Teknologi Malaysia) <i>The Influence of Degree of Substitution on Viscosity and Solubility in Carboxymethylated Amorphophallus muelleri Glucomannan</i>
2:05:00	12:25 PM	-	2:30 PM	LUNCH BREAK Cinta Terrace Restaurant

DAY 2: 15TH OCTOBER 2026 (THURSDAY)

Location: Dewan Inderaputra

Afternoon Session

PARALLEL SESSION 1 Chairperson: Dr. Nardiah Rizwana binti Jaafar Assistant Chairperson: Ts. Nur Suzana Adlizan binti Jasni				
Duration	Time (MYT)			Activity
0:20:00	2:30 PM	-	2:50 PM	Invited Speaker 7 Dr. Hashimah binti Elias (Universiti Malaysia Sarawak) <i>The Potential of Vanilla Cultivation: Molecular and Cellular Approaches to Sustainable Production and Product Development</i>
0:15:00	2:50 PM	-	3:05 PM	ChM. Dr. Siti Nor Azlina binti Abd Rashid (Universiti Teknologi Malaysia) <i>Enhancing Flavonoid Aglycone Content and Antioxidant Activity in Stingless Bee Honey via β-Glucosidase-Assisted Hydrolysis</i>
0:15:00	3:05 PM	-	3:20 PM	Ardiana Ilham Nurrohman (Universitas Airlangga) <i>Molecular Dynamics Study on the Effect of the N1 Neuraminidase Double Mutant G147R/H274Y on Oseltamivir Sensitivity</i>
0:15:00	3:20 PM	-	3:35 PM	Eer Ke Xin (Universiti Teknologi Malaysia) <i>Screening of Polymers for Immobilized Laccase Electrospun Nanofibres</i>
0:15:00	3:35 PM	-	3:50 PM	TEA BREAK
0:15:00	3:50 PM	-	4:05 PM	ChM. Muhammad Zulhelmi bin Nazri (Universiti Teknologi Malaysia) <i>Lipidomic Biomarkers for Halal Authentication: A Biochemical Approach to Food Source Discrimination</i>
0:15:00	4:05 PM	-	4:20 PM	Rasyid Noor Hakim, M.Si (Universitas Airlangga) <i>Cloning and Expression of a Heterologous Fusion Gene of Carbohydrate Binding Module (CBM36) with Local Halophilic Cellulase</i>
0:15:00	4:20 PM	-	4:35 PM	ChM. Ida Madiha binti Yusoff (Universiti Teknologi Malaysia) <i>Phytochemical Extraction and Molecular Docking Analysis of Rama-Rama Leaves (<i>Christia vespertilionis</i>): A Potential Ingredient for Functional Beverage Development</i>
0:15:00	4:35 PM	-	4:50 PM	Muhammad Adrian Natsir, S.Pd.,M.Si (Universitas Airlangga) <i>The Effectiveness of Lactose and Galactose Inducers for Producing Cocktail Enzymes Of α-L-Arabinofuranosidase and β-D-Xilosidase</i>
END OF CONFERENCE DAY 2				

DAY 2: 15TH OCTOBER 2026 (THURSDAY)**Location: Maharaja Suites****Afternoon Session**

PARALLEL SESSION 2 Chairperson: Assoc. Prof. Ir. Ts. Dr. Daniel Joe Dailin Assistant Chairperson: Farahnatasha binti Zainuddin				
Duration	Time (MYT)			Activity
0:20:00	2:30 PM	-	2:50 PM	Invited Speaker 10 Dr. Nazrin bin Abd Aziz (Universiti Teknologi Malaysia) <i>Promising Antioxidant and Antidiabetic Potentials of Malaysian Wild Gingers (Zingiberaceae martinov)</i>
0:15:00	2:15 PM	-	2:30 PM	Muhammad Aljaziri Badruzaman, M.Sc (Universiti Teknologi Malaysia) <i>Heterogeneous Kinetic Analysis of PET Degradation Catalyzed by PETase using a Modified Prout-Tompkins Model</i>
0:15:00	2:30 PM	-	2:45 PM	Ahmad Fahrul Syarif (Universitas Airlangga) <i>Phylogeographic Divergence within The Betta coccina Group Across The Bangka and Belitung Archipelago Revealed by Mitochondrial Cytochrome C Oxidase Subunit I (COI) Sequences</i>
0:15:00	2:45 PM	-	3:00 PM	Oral Presenter 33 Mohd Hafifi bin Jamal (Universiti Teknologi Malaysia) <i>Development of a Structure-Guided Machine-Learning Framework for Cross-Linked Enzyme Aggregate (CLEA) Formulation Design</i>
0:15:00	3:00 PM	-	3:15 PM	Dr. Anita Kurniati, S.Si., M.Si. (Universitas Airlangga) <i>Enhancing The Enzymatic Degradation of Hemicellulose Derived from Oil Palm Leaves</i>
0:15:00	3:15 PM	-	3:30 PM	Amira Batrisyia binti Shariman (International Islamic University Malaysia) <i>In Silico Analysis of CD9 Inhibition for Potential Extracellular Vesicle Modulation in Triple-Negative Breast Cancer</i>
0:15:00	3:30 PM	-	3:45 PM	TEA BREAK
0:15:00	3:50 PM	-	4:05 PM	Rahmi Rahayu (Universitas Airlangga) <i>High-Resolution COI DNA Barcoding for Forensic Identification and Traceability of Dried Shark Fins</i>
0:15:00	4:05 PM	-	4:20 PM	Nuraishah binti Mohd Sahal Selvaraja (Universiti Teknologi Malaysia) <i>Development of a Green Extraction Platform for Cellulose Recovery from Chlorella Vulgaris via Cellulase Pretreatment and Deep Eutectic Solvent-Assisted Microwave Extraction</i>
0:15:00	4:20 PM	-	4:35 PM	Fatiha Khairunnisa, S.Si., M.Si (Universitas Airlangga) <i>Expression, Purification, and Characterization of Hepatitis B VLP using Lego Vaccine Concept</i>
0:15:00	4:35 PM	-	4:50 PM	Herdayanto Sulistyo Putro, S.Si., M.Si. (Universitas Airlangga) <i>CAZy-Guided Comparative Genomic Analysis of Semeru Cold Lava Isolates Staphylococcus epidermidis ATCC 14990 and Acinetobacter baumannii ATCC 19605 Using Whole Genome Sequencing</i>
END OF CONFERENCE DAY 2				

DAY 3: 16TH OCTOBER 2026 (FRIDAY)**Location: UTM Campus**

GEOTOURISM CAMPUS TOUR PROGRAM	
Time (MYT)	Activity
8:45 AM	Depart from Pulai Springs Resort
9:00 AM	Visit to the Kelah Project Site at UTM Orchard (Dusun UTM)
10:30 AM	Visit to the Stingless Bee (Madu Kelulut) Project Site
11:30 AM	UTM Campus Tour (Sightseeing drive around campus)
12:30 PM	END OF PROGRAM