

Tuesday 28th November 2023

Activities

9.00-10.00	Plenary Speaker #3 Prof. Pierre Savatier Intra- and Interspecies Chimeras with Pluripotent Stem Cells: Stakes and Hurdles in Primates			
10.00-10.30	Refreshment			
10.30-11.30	Plenary Speaker #4 Prof. Susan Sharfstein The Use of Mammalian Cells Systems for the Production of Therapeutic Proteins and Carbohydrates			
11.30-12.00	Ajinomoto Presentation			
12.00-13.30	Luncheon Talk			
	Industrial Biotechnology	Health & Wellness	Agricultural & Food	General Biotechnology
Meeting room	AMETHYST	RUBY	TURQUOISE	TOPAZ
13.30-14.00	Keynote Prof.Chun-Jen Huang: Bio-inspired zwitterionic polymeric chelating assembly for treatment of copper-induced cytotoxicity and triggered-release drug delivery	Keynote Prof.Supayang Voravuthikunchai: A move from natural product research to industrial applications	Keynote Prof. Sakamon Devahastin: Commercializing a Research Project: Opportunities, Difficulties and Challenges	Keynote Assoc. Prof.Kiattawee Choowongkamon: Single-Chain variable fragment from phage display antibody technology for electrochemical biosensor application
14.00-14.25	Invited Speaker #1 Prof.Nuttha Thongchul: Bioprocess Platform Development for Platform Chemicals	Invited Speaker #1 Prof.Chatchai Tayapiwatana: Dimeric Ankyrin with Inverted Module Promotes Bifunctional Property in Capturing Capsid to Impede HIV-1 Replication	Invited Speaker #1 Assoc. Prof. Jirawat Yongsawatdigul: Valorization of animal- and plant-based coproducts through bioactive peptide production	Invited Speaker #1 Prof.Yu-Shen Cheng: Insect biorefinery: A “one stone three birds” approach to combat waste management, food security, and Net-Zero emission
14.25-14.50	Invited Speaker #2 TSung-Ju Li (Kevin): Neutraceutical Development of Cordycep cicadae Mycelia for Eye Care	Invited Speaker #2 Prof.Sherry Moi Meng Ling: Current epidemiological trends of arbovirus infection in Asia & potential challenges: ADE activity & host immune response against a changing landscape of DENV	Invited Speaker #2 Prof.Surintorn Boonanuntanasarn: Development of cryopreservation of spermatogonia in fish: a tool for fish preservation	Invited Speaker #2 Dr.Yane-Shih Wang: Site-specific histidine aza-Michael modification of peptides and proteins enabled by a ferritin-based metalloenzyme
14.50-15.05	OP-IB-009: Dr.Pattanan - Songdech: Proteomic Analysis during the Production of Xylolipid Biosurfactant in the Yeast Meyerozyma and the effect on the Biofilm Formation	O-HW-004: Assoc. Prof. Dr.Zetty Norhana Balia Yusof: Marine Microalgal Extracts with Antioxidant Potential and Cancer-Specific Cytotoxicity	O-AF-019: Prof. Dr.Panmanas Sirisomboon: Precision test for NIR hyperspectral characteristic for measuring fungal Colletotrichum spp. Extracted from mango fruits	O-GB-016: Yu-Lun Hsieh (Assoc. Prof. Dr.Ken-Lin Chang): Next-Generation Sequencing Analysis of Microbial Communities Influenced by the Combination of Biochar and Microbial Degradation for Trichloroethylene Remediation
15.05-15.20	O-IB-006: Ms.Chalida Daengbussadee: Evaluation of butanol production from sweet sorghum bagasse by Clostridium beijerinckii	OP-HW-001: Mr.Sirawich Sapsirisuk: Antimicrobial activity of sophorolipids derived from yeast Starmellela riodocensis strain GT-2564R against Escherichia coli	O-AF-024: Quang Tam Huynh (Assoc. Prof. Dr.Ken-Lin Chang): Utilization of agricultural wastes for the production of 2,5-furandicarboxylic acid via a one-pot, two-step catalytic process	O-GB-006: Assoc. Prof. Dr.Malinna Jusoh: De novo transcriptomic analyses of Thalassiosira weissflogii cultured under several stress conditions
15.20-15.35	O-IB-007: Ms.Zerlinda Mara Ditta: Investigating the effect of Lysinibacillus sp. WH on mechanical properties of biocement containing incinerated black sugarcane filter cake	O-HW-005: Ms.Natcha Siriyod: Point-of-Care Diagnosis of Plasmodium vivax using Recombinase Polymerase Amplification and Paper-based analytical devices	O-AF-001: Dr.Rayakorn Yutthanasirikul: Bioactive peptides from Spirulina-phycoerythrin extract	O-GB-018: Dr.Kallayanee Naloka: Robust Consortium Screening using Fluorescence-Activated Cell Sorting for Enhanced Pyrene Degradation under Climate Change Scenarios
15.35-15.50	O-IB-008: Ms.Chularat Haokok: Lactic acid production from deep eutectic solvent-pretreated sugarcane bagasse by Lactiplantibacillus plantarum under simultaneous saccharification and fermentation	O-HW-007: Ms.Nut Pusuntisumpun: The Dynamic Duo of Limosilactobacillus Probiotics Reshaping Overweight Gut Microbiota in a Simulated Human Colon Model	O-AF-009: Dr.Nisit Watthanasakphuban: Development of high probiotic cell density using oxidative stress reduction approach	O-GB-009: Dr.Pinpunya Riangrunroj: Formation of Lactobacillus plantarum ghosts via regulated expression of a phage-derived holin as a safe delivery carrier
15.50-16.05	O-IB-009: Mr.Ayyapruk Moungrayoon: Production of poly(hydroxybutyrate-co-hydroxyvalerate) from cassava processing wastes using Paracoccus sp. KKU01 through high cell density cultivation	O-HW-006: Ms.Nuttaporn Emthomya: Searching for Marine Actinomycetes to Screen for Anticancer Natural Products	OP-AF-007: Dr.Wascharin Udchumpisai: Effects of Gradient Ethanol Precipitation on the Structure of Pomelo Pectic-oligosaccharides and Their Effectiveness in Rice Seed Priming	O-GB-010: Dr.Lawal Nil Garba: Functional Analysis of PA8FAD9 Gene Isolated from a Cold-tolerant Bacterium
16.10-16.20	Refreshment			
16.20-17.00	Award Announcement & Closing Ceremony			
17.15	Excursion: Night Safari at Khao Yai National Park			
Wednesday 29 th November 2023	Excursion: Amazing Two Stone Castles			

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	Future Biotechnologist presentation	Future Biotechnologist presentation	Future Biotechnologist presentation
Meeting room	SAPPHIRE	AMBER	QUARTZ
13.35-13.50	OP-AF-001: Ms.Saiwaree Ngoenphoemsup: A cost-effective medium for Spirulina production	O-AF-011: Ms.Chantakhan Theinchaibundit: Effects of Plasticizers Applied During Heat-moisture Treatment on Properties of Modified Sweet Cassava Flour	O-GB-007: Dr.Anocha Poommuang: Exploiting DNA Barcode coupled with HRM for identifying Marine Mammal species in Thai Waters
13.50-14.05	OP-AF-002: Ms.Wiwan Samakkarn: Biochemical Profiles and Anti-Candida Activity of Kombucha with Different Tea Varieties	OP-AF-008: Mr.Chantha Sat: Evaluation of flooding tolerance rootstocks for cherry tomato	OP-HW-005: Ms.Pincha Kwandee: Metabolomic Profiling of Health-Beneficial Fecal Metabolites in Obese Adults During Human Gut Model Fermentation
14.05-14.20	O-AF-002: Ms.Jeyavani Jeyaraj: Biocompatible plastics from algae for sustainable food packaging application in a green circular economy	O-AF-013: Ms.Piangjai Chalermwong: Genetic admixture and diversity in Thai domestic chickens revealed through analysis of Lao Pa Koi fighting cocks	OP-GB-012: Mr.Krudsada Karin: Xylitol production via xylose hydrogenation reaction using Ru/C catalyst: A comparison of hydrogen donor sources
14.20-14.35	OP-AF-003: Mr.Chachapoom Sukwijit: Cellulose Modification with Triethoxyvinylsilane for Production of PLA/Cellulose as Bio-Degradable Mulch Film	O-AF-014: Ms.Wattanawan Jaito: Genetic diversity and population structure of thai cat breeds: implications for conservation and breeding program	O-GB-011: Mr.Wongsathit Wongloet: Genetic characteristics and local adaptation of the Mae Hong-Son chicken.
14.35-14.50	O-AF-003: Ms.Walaiwan Panyapoo: Changes in the Physicochemical Characteristics of Cassava Flour by steam-heat-moisture treatment with sucrose addition	OP-AF-011: Mr.Narong Ketkham: Structural and Physicochemical Properties of Cassava Starch Modified by Roasting Treatment with Citric Acid	O-GB-012: Ms.Hsu Wai Lwin: Heat stress response of Arthrospira platensis C1 in the presence of urea
14.50-15.05	OP-AF-004: Mr.Ronnachai Jitsamut: Characterization and biodegradable of bio-based composite lignin PLA/PBAT films	OP-AF-012: Ms.Jutamanee Tepchoo: Synergistic Effect of Phage-Plant Extract Combination to Control Growth of Listeria monocytogenes	OP-GB-007: Mr.Syed Ali: Identification of Genes associated with Biofuel production in S. cerevisiae
15.05-15.20	O-GB-003: Ms.Puntitra - Kamol: Assessing genetic diversity of Centella asiatica (L.) Urb. in Thailand by SCoT, ISSR and SRAP	O-AF-022: Ms.Jumaporn Sonongbua: Unraveling the Genetic Basis of Pigmentation Trait in Black Diamond Stingrays: A ddRAD-Seq Approach for Improving Breeding Strategies	OP-GB-008: Mr.Saengmany Phommakod: Kinetic Microbial Growth of Clostridium manihotivorum with Glucose under Anaerobic Digestion
15.20-15.35	O-GB-021: Ms.Suphaporn Paenkaew: The Accuracy and Sensitivity of Hepatozoon canis Detection utilizing Molecular Tools as RPA Coupled with CRISPR-CAS12a	O-AF-023: Ms.Tawisa Pongsuwanporn: Unveiling the Impact of Sugarcane Bagasse Extracts on Human Gut Microbiome	O-GB-013: Mr.Adisan Rungsahiranrut: Metagenomic insights into landfill bacterial community response to plasticizers from plastic wastes under different temperatures
15.35-15.50	O-GB-022: Mr.Trifan Budi: Thermal selection drives pattern of the HSP70 and HSP90 genes variation in Thai Indigenous chicken breeds and Red Junglefowl	O-GB-002: Ms.Puntitra - Kamol: Assessing genetic diversity of Centella asiatica (L.) Urb. in Thailand by SCoT, ISSR and SRAP	OP-GB-009: Mr.Suppanut Varongchayakul: Methane Production Potential of Oil Palm Solid Residues and Hydrothermal Pretreatments
15.50-16.05	OP-GB-011: Mr.Ekachai Taowkrue: Whole Genome Sequencing de novo Assemble of Starmerella riodocensis GT-2564R Strain toward understanding sophorolipid production		O-GB-017: Mr.Dario Claudio Puddu: Optimal pH conditions in biopanning to isolate a scFv within, binding to a novel antigen in lung cancer cell lines DMS-53 and A549
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