

**Monday 27th November 2023**

**Activities**

**Room Ballon1,2**

7.45-8.45	Registration
8.45-9.15	Opening Ceremony
9.15-10.15	Plenary Speaker #1 Prof. Sir Gregory Winter (Nobel Laureate in Chemistry, 2018) "Harnessing evolution to make new medicines"
10.15-10.30	Refreshment
10.30-11.30	Plenary Speaker #2 Prof. Bernd Nidetzky "Industrial biotechnology to meet grand challenges: examples from the molecular world of functional carbohydrates"
11.30-12.00	Taguchi Prize Presentation
12.00-13.30	Luncheon Talk Thiti Saichau, Sutech Engineering Co., Ltd. "BIOREFINERY DEVELOPMENT FOR SUGAR INDUSTRY"

	Industrial Biotechnology	Health & Wellness	Agricultural & Food	General Biotechnology
Meeting room	AMETHYST	RUBY	TURQUOISE	TOPAZ
13.30-14.00	<b>Keynote</b> AO Prof.Nicole Broth: New approaches to understand population homo/heterogeneity and phenotypic behavior of suspension grown CHO host and producer cells.	<b>Keynote</b> Hui-Min David Wang: Biomedical Engineering in Precision Medicine	<b>Keynote</b> Prof.Roongroje Thanawongnuwech: Diagnosis of major infectious diseases in animals	<b>Keynote</b> Assoc.Prof.Yoichi Kumada: Activation of rabbit scFv antibodies on nitrocellulose membrane for sensitive lateral-flow immunoassay
14.00-14.25	<b>Invited Speaker #1</b> Assoc. Prof.Prakit Sukyai: Exploring the Potential of Cellulose-Based Biorefinery for Sugarcane Bagasse Valorization	<b>Invited Speaker #1</b> Assoc. Prof.Varodom Charoensawan: Exploring Cellular Heterogeneity and Molecular Mechanisms of Diseases using Single-cell Omics	<b>Invited Speaker #1</b> Assoc. Prof.Kunlaya Somboonwiwat: Discovery of immunostimulatory and therapeutic miRNAs for shrimp aquaculture application	<b>Invited Speaker #1</b> Dr. Nahrul Hayawin Zainal: Advanced color treatment of palm oil mill effluent by activated carbon adsorption
14.25-14.50	<b>Invited Speaker #2</b> Prof.Nguyen Hoang Anh: Histamine-degrading halophilic bacteria from traditional fish sauce: From strain isolation to characterization of Virgibacillus campisalis TT8.5 for histamine reduction	<b>Invited Speaker #2</b> Asst. Prof.Poochit Nonejuie: Towards a single-cell antibiotic discovery platform via high-resolution bacterial cytological profiling	<b>Invited Speaker #2</b> Assoc. Prof.Kornsorn Srikulnath: Siam Chicken Bioresource Project: Promoting rural development for sustainable food security while retaining biodiversity	<b>Invited Speaker #2</b> Assoc. Prof.Norhayati Ramli: Metatranscriptomic for Mining Functional Genes Responsible for Bacterial Phenol Degradation with Simultaneous Bioplastic Production
14.50-15.05	<b>O-IB-010:</b> Dr.Aophat Choonut: Statistical optimization of oil palm fronds (OPF) delignification using deep eutectic solvent: lignin removal to enhance cellulose hydrolysis	<b>O-HW-002:</b> Prof.Yu-Kaung Chang: Bio-based polyamide 56 modified nanofiber membrane: Preparation, process optimization, and Evaluation of antibacterial activity	<b>O-AF-004:</b> Yu-wen Huang (Assoc. Prof. Dr.Ken-Lin Chang): Combining Deep Eutectic Solvents and Biphasic Reaction Systems for the Conversion of Pineapple Peel Waste into 5-Hydroxymethylfurfural (5-HMF)	<b>O-AF-005:</b> Ms.Pimsiriya Srila: Construction of Recombinant D-Psicose-3-epimerase (DPEase) Producing Strains Using Lactic Acid Bacteria Expression Systems
15.05-15.20	<b>O-IB-002:</b> Dr.Mamata Sachin Singhvi: An innovative approach for bioethanol fermentation using lignocellulosic waste through lignocellulose degrading nanomaterial, an enzyme substitute	<b>O-HW-003:</b> Prof.Bor-Yann Chen: Exploring Electron Transport-Oriented Characteristics of Traditional Chinese Medicine (TCM) for COVID-19 Drug Development	<b>OP-AF-009:</b> Assoc. Prof.Utai Klinkesorn: Influence of bleaching earths on characteristics and chloride content of palm oil after bleaching and deodorization	<b>O-GB-019:</b> Fezile-Bethusile Mkhontfo (Assoc. Prof. Dr.Ken-Lin Chang): Self – degradation of bioplastics by enzyme catalyst for sustainable development of green circular economy
15.20-15.35	<b>O-IB-001:</b> Mr.Pobthum Munkajohnpong: An economically feasible process for enzyme production through media optimization	<b>O-HW-001:</b> Ms.Pantawan Sangnuang: A rapid point-of-Care test for diagnosis of melioidosis	<b>O-AF-012:</b> Dr.Thilaghavani Nagappan: Efficacy of carbazole alkaloids and extracts from Murraya koenigii against fresh water snail, Pomacea canaliculata from East coast of Malaysia	<b>OP-GB-001:</b> Dr.Dusadee Khamboonrueang (Assoc. Prof.Samorn Hirunpraditkoon): Bamboo-Derived Activated Carbon: Properties and Iodine Adsorption Capacity
15.35-15.50	<b>O-IB-003:</b> Ms.Siriwan Khanpanuek: Bioethanol production from cassava pulp by Candida glabrata through isothermal simultaneous saccharification and fermentation (SSF) at elevated temperature	<b>OP-HW-002:</b> Ms.Tanapat Okong: BET inhibition attenuates PDGF-BB-activated myofibroblast in Graves' Ophthalmopathy patients	<b>O-AF-015:</b> Dr.Ratna kalita: Genome editing in Bhut jolokia (Capsicum chinense Jacq.) against PVY	<b>O-GB-020:</b> Dr.Yane-Shih Wang: Site-specific histidine aza-Michael modification of peptides and proteins enabled by a ferritin-based metalloenzyme
15.50-16.05	<b>O-IB-004:</b> Mr.Natthawut Poomsila: Development of muconic acid for new bio-industry platform	<b>OP-HW-003:</b> Mrs.Tomoko Ueta: Development of high-protein okara cake mix	<b>O-AF-016:</b> Dr.Worapong Singchat: High-quality reference genomes of Clariid catfish: Genetic advancements in Clarias fish breeding for sustainable aquaculture and resource management	<b>O-GB-015:</b> Dr.Leander Sützl: New enzymes for biosensor applications – two examples of recent enzyme discoveries using sequence similarity networks
16.05-16.20	<b>O-IB-005:</b> Mr.Phon Thatiyamane: Effects of osmoprotectant on ethanol fermentation from sweet sorghum stem juice in very high gravity condition by Saccharomyces cerevisiae under temperature stress	<b>OP-HW-004:</b> Ms.Tippakorn Intharakhot: Effects of D-Galactose-Induced Aging on Locomotion and Anxiety-Like Behavior in STING Deficiency Mice	<b>O-AF-020:</b> Dr.Priyadarshini Bhorali: RNAi based gene silencing for Cucumber Mosaic Virus resistance in Bhut jolokia	<b>OP-GB-010:</b> Asst. Prof.Waraporn Rattanongphisat: Physicothermal properties of Bio-Briquettes from Bengal Almond Leaf and Para Grass
16.20-18.30	Poster Presentation + Refreshment			
17.30-18.30	Annual meeting of Thai Society for Biotechnology			
18.30-20.30	Welcome dinner + Flag-giving ceremony			
18.30 - 20.30	Joining Loi-kratong Festival			

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	<b>Future Biotechnologist presentation</b>	<b>Future Biotechnologist presentation</b>	<b>Future Biotechnologist presentation</b>
<b>Meeting room</b>	<b>SAPPHIRE</b>	<b>AMBER</b>	<b>QUARTZ</b>
13.35-13.50	<b>O-AF-021:</b> Dr.Shewin Attasat: The Cultivation of Blue-green Algae Using the Tilapia RAS Effluent	<b>O-AF-006:</b> Ms.Praphutson Aiamsa-at: CRISPR-based, genotype-specific detection of yellow head virus genotype 1 with G-quadruplex DNAzyme-assisted colorimetric readouts	<b>OP-HW-006:</b> Mr.Channa Bhatiya Jayasekara: Sophorolipid-Drug Combination: A Promising Approach to Mitigate Antimicrobial Resistance and Modulate Pathogen-Drug Interactions in Candida albicans Biofilm Formation
13.50-14.05	<b>OP-AF-010:</b> Ms.Thanyalak Srinorasing: Effect of the phosphate concentrations on the efficiency of phycocyanin extraction from Arthrospira (Spirulina)	<b>O-AF-007:</b> Mrs.Maturada Saengthong: Determining sex of Cannabis sativa L. using high-resolution melting (HRM)	<b>OP-GB-002:</b> Mr.Thanarat Saenrit: Crucial role of ZWF1 gene encoding glucose-6-phosphate dehydrogenase against oxidative stress in Saccharomyces cerevisiae
14.05-14.20	<b>OP-IB-007:</b> Mr.Isara Charoensri: Process Simulation on Empty Fruit Bunches Valorization via Fischer-Tropsch Synthesis	<b>OP-AF-005:</b> Ms.Panisara - Amornrunroj: Effect of Acid Pretreatment Condition and Germination Period on Changes in Bioactive Compounds of Adzuki Bean	<b>O-GB-004:</b> Ms.Eniko Hermann: Characterization and engineering of Dye-decolorizing Peroxidases from Kitasatospora aureofaciens
14.20-14.35	<b>O-IB-011:</b> Ms.Tanyaporn Siriwong: Sugarcane juice and bagasse as co-substrates for L-lactic acid production through simultaneous saccharification and fermentation process.	<b>O-AF-010:</b> Ms.Thanyalak Srinorasing: Effect of the phosphate concentrations on the efficiency of phycocyanin extraction from Arthrospira (Spirulina)	<b>O-GB-005:</b> Ms.Izzati Sabri: Community analysis and functional gene profile of palm oil mill effluent (POME) revealed it as the source of phenol-degrading bacteria
14.35-14.50	<b>OP-IB-011:</b> Ms.Nuengruedee Boonpala: Techno-economic analysis and life cycle assessment of formaldehyde production process from rice straw	<b>OP-AF-006:</b> Ms.Maneerat Chuchat: Effect of trehalose on osmosed-air dried mango quality	<b>O-GB-001:</b> Ms.kanchana Sittikankaew: A novel full-length transcriptome resource for the giant freshwater prawn (Macrobrachium rosenbergii)
14.50-15.05	<b>O-IB-012:</b> Ms.Rattanaporn phongsri: The use of dried spent yeast as a low-cost nitrogen supplement in ethanol production from sweet sorghum stem juice	<b>OP-IB-003:</b> Mr.Numporn Thungphotrakul: Chitosan-based Nano-emulsion and Pickering Emulsion for Clove Essential Oil Encapsulation	<b>O-GB-008:</b> Mr.Thitipong Panthum: Exploring Sex Determination in Siamese Fighting Fish: Insights from Genome-wide SNP Analysis
15.05-15.20	<b>OP-IB-012:</b> Mr.Tam Quang Huynh: Utilization of agricultural wastes for the production of 2,5-furandicarboxylic acid via a one-pot, two-step catalytic process	<b>OP-IB-005:</b> Ms.Chayaphatra Sooklim: Exploring the Impact of Fish Residue-derived Organic Fertilizers on Soil Microbial Communities: A Comprehensive Analysis	<b>OP-GB-013:</b> Ms.Kamollak Sangawthong: Designing and Engineering Phosphotriesterase as high performance Organophosphate-Degrading Enzyme
15.20-15.35	<b>OP-IB-010:</b> Ms.Nuttarin Jenpuntarat: Screening of a polyethylene terephthalate hydrolase (PETase)-like enzyme from the wastewater microbial consortium	<b>OP-IB-001:</b> Ms.Chayaphatra Sooklim: Acute toxicity Profiling of the Fire-Suppressant Chemicals (FireGardPro I) to Early Life Stages of Zebrafish	<b>OP-GB-003:</b> Ms.Nindi Syahputri Lubis: Development of duplex loop-mediated isothermal amplification (dLAMP) for detection of carbapenem antibiotic-resistant genes KPC and NDM
15.35-15.50	<b>OP-IB-002:</b> Ms.Busakorn Wilawan: Astaxanthin extraction from haematococcus pluvialis by an integrated process of deep eutectic solvent, liquid biphasic flotation, and ultrasonication	<b>OP-IB-006:</b> Ms.Pinchada Sae-ear: Immobilization of Lactic Acid Bacteria on Fungal Pellets for Lactic Acid Production	<b>OP-GB-004:</b> Ms.Romtira Soda: Effect of hydrogen donor types on catalytic hydrogenation of glucose to sorbitol using Ru/C catalyst
15.50-16.05	<b>OP-IB-004:</b> Mr. Tanakit Komkhum: CO2 removal from triethanolamine solution using living microalgae-loofah biocomposites with immobilized Scenedesmus acuminatus TISTR 8457		<b>OP-GB-005:</b> Ms.unyamanee phairin: Effect of pH on the Extraction Efficiency of Proteins from Pollen of Six Plants
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