

Thai Society for Biotechnology International Conference Online
“Green energy & Zero Waste Society”
April 2, 2021
Virtual Conference

09.00-09.10	Opening Ceremony: Prof. Penjit Srinophakun President of Thai Society for Biotechnology					
09.10-09.30	Keynote Speaker-01: Professor Dr. Akihiko Kondo, Kobe University, Japan “Construction of Novel Metabolic Pathways with Synthetic Enzymes”					
09.30-09.50	Keynote Speaker-02: Professor Dr. Sung-hoon Park, Pusan National University, Republic of Korea “Improvement of 3-Hydroxypropionic Acid Tolerance in <i>Escherichia coli</i> : Identification and use of Acid Exporter YohJK and Its Regulator YieP”					
09.50-10.10	Keynote Speaker-03: Professor Dr. Suraini Abd-Aziz, Universiti Putra Malaysia, Malaysia “Bioenergy and Biorefinery of Agrowastes Materials Toward Zero Wastes”					
10.10-10.30	Keynote Speaker-04: Professor Dr. Qingsheng Qi, Shandong University, P.R. China “Engineering the EP-Bifido Pathway for Biosynthesis with Low CO ₂ Emission”					
10.30-10.50	Keynote Speaker-05: Professor Dr. Madihah Md. Salleh, Universiti Teknologi Malaysia, Malaysia “Biomass Conversion for Green Energy and Zero Waste via Integrated Bioprocessing Techniques”					
10.50-11.10	Keynote Speaker-06: Professor Dr. Wu Jinchuan, Guangdong Academy of Sciences, P.R. China “Processing of Natural Resources for Value-Added Products and Organic Waste Valorization”					
11.10-11.30	Keynote Speaker-07: Professor Dr. –Ing. Misri Gozan, Universitas Indonesia, Indonesia “Valorisation of Oil Palm Solid Waste to High Added Value Chemicals”					
11.30-13.00	Poster Presentation Chair: Assist. Prof. Dr. Adisak Romsang					
	Other Related Topics Chair: Assist. Prof. Dr. Adisak Romsang	Green Economy and Bio-business Chair: Assoc. Prof. Dr. Prakrit Sukyai	Agricultural and Food Biotechnology Chair: Assoc. Prof. Dr. Aphichart Karnchanatat	Molecular and Medical Biotechnology Chair: Assoc. Prof. Dr. Ratchaneewan Aunpad	Environmental Biotechnology Chair: Assist. Prof. Dr. Sureewan Sittijunda	Bioenergy and Biorefinery Chair: Assist. Prof. Dr. Sompong O-thong
13.00-13.10	ORT03 - Ms. Istiftakhun Nikmah, Suranaree University of Technology “Release of Alcohol Oxidase I (AOX1) Protein from <i>Pichia pastoris</i> during Expression of Rice Serine Carboxypeptidase-like 7”	GEB01 - Ms. Suvimol Somwongin, Chiang Mai University “Potential of Waste Macadamia (<i>Macadamia integrifolia</i>) Pericarp as Cosmeceutical Active Ingredients”	Invited Speaker-01 Assoc. Prof. Dr. Prisana Suwannaporn, Kasetsart University “Young Rice Grain as a New Source of Healthy and Hypoallergenic Foods”	Invited Speaker-05 Asst.Prof.Dr. Adisak Romsang, Mahidol University “Identification of Potential Adjuvant Protein for Improving Vaccines against Bacterial Infections”	Invited Speaker-04 Dr. Natsaran Saichana, Mae Fah Luang University “Thailand Arabica Coffee: Cultivars, Fermentation and Valorization”	Invited Speaker-02 Asst.Prof.Dr.Prawit Kongjan, Prince of Songkla University “Utilization of Palm Oil Mill Wastes for Gaseous Biofuel Production”
13.10-13.20	ORT06 - Mr. Pongsatorn Khunrach, Thammasat University “Functional Characterization of Putative Tat Signal Peptide on Heterologous Expression of Amylase (HL11Amy) Isolated from <i>Roseateles terrae</i> HL11”	Agricultural and Food Biotechnology Chair: Assoc. Prof. Dr. Prakrit Sukyai				
13.20-13.30	ORT02 - Ms. Kantira Aincharoen, King Mongkut's University of Technology Thonburi	AGR11 - Ms. Chanikarn Chancharoen, Mahidol University	AGR01 - Ms. Piyapat Aiemcharoen, Prince of Songkla University	MMB21 - Ms. Alwane Yalapaee, Prince of Songkla University	ENV06 - Ms. Sudarat Rodpan, King Mongkut's University of Science and Technology Thonburi	Invited Speaker-03 Asst.Prof. Dr. Paripok Phitsuwan, King Mongkut's

	"Isolation of Probiotic Bacteria from Fermentation Food and Study Properties to use Prebiotics to Promote Probiotic Bacteria Growth"	"Effects of Gold Nanoparticles on Seed Germination and Growth of Melientha suavis Seedlings"	"Antioxidant and Anti-Diabetic Activities of Crude Ethanolic Extract from the Banana Inflorescence of Musa ABB cv. Kluai Namwa"	"Cloning and Characterization of Anti-Lipopolysaccharide Factor3 (FmALF3) Gene from Banana Shrimp <i>Fenneropenaeus merguensis</i> "	"Screening and Application of Microorganisms that Degradation Hydrocarbon Compounds from Oil Stain Removal Plant"	<i>University of Technology Thonburi</i> "The Cellulosome of <i>Clostridium alkaliscellulosi</i> "
13.30-13.40	ORT07 - Ms. Kamonchanok Mudsem, Prince of Songkla University "Antioxidant and Anti-Inflammatory Effects of Virgin Coconut Oil By- Products"	AGR14 - Mr. Sopheak TITH, Silpakorn University "Effect of Vermicompost on Growth, Yields, and Disease Occurrence of Cucumber (<i>Cucumis sativus</i> L.) under Greenhouse Condition"	AGR03 - Ms. Sudarat Jiamphun, Chiang Mai University "Potential of Glutinous Rice Husk Extract as Antioxidant and Hyaluronidase Inhibitor"	MMB08 - Ms. Sunisa Pongkam, King Mongkut's University of Technology Thonburi "Characterization of Genetic Variants of Thai Autism Spectrum Disorder Patients using Whole-Exome Sequencing and Bioinformatic Analyses"	ENV09 - Dr. Jirayut Euanorasetr, King Mongkut's University of Technology Thonburi "Marine Streptomyces with Antibacterial Activity and Exoenzyme Production from Nile Tilapia Pond"	
13.40-13.50	ORT01 - Mr. Thanapat Jorn-am, Thammasat University "Two-in-One Synthesis of Carbon Dots and Activated Carbon from Rice Husk for Supercapacitor with Improved Performances"	AGR16 -Mr. Napawit Nonthakaew, Mahidol University "In-vitro Evaluation of Actinomycetes with Plant Growth-Promoting Properties"	AGR05 - Ms. Preaploy Hong-in, Chiang Mai University "Enhanced Antioxidant Activities of Pericarp Extract from Black Dimocarpus longan Lour"	MMB02 - Mr. Aliyu Maje Bello, King Mongkut's University of Technology Thonburi "Designing a Candidate Tetravalent Vaccine against Major Enteroviruses Associated with Hand Foot and Mouth Disease (HFMD) by Immunoinformatics Approach"	ENV02 - Mr. Tanyawat Kaewsulud, Chiang Mai University "Purification and Characterization of Thermostable Alkaline Keratinase from <i>Bacillus halodurans</i> SW-X and Its Use in Chicken Feather Valorization for Keratin Hydrolysate Production, a Substrate for Bioplastic Starch/Keratin"	BEB06 - Mr. Gittisak Phachwisoot, Mahidol University "Preparation of Activated Carbon from Cassava Rhizome as Supercapacitor Electrode Materials"
13.50-14.00	ORT13 - Mr. Somporn Tiaharoen, King Mongkut's University of Technology North Bangkok "A Case Study of Severity Prediction of COVID-19 Patients Using Ensemble Learning Algorithm"	AGR02 - Mr. Leandro Carvalho Rodrigues Pereira, Silpakorn University "Effect of Water Salinity on Characteristics Related to the Germination of Rice both in Non-Soaking and Soaked Seed"	AGR12 -Dr. Sarita Sangthong, Mae Fah Luang University "Polyphenols Antioxidant of Noni (<i>Morinda citrifolia</i> L.) Seed Extract from Different Ripening Stages and the Valorization in Facial Serum"	MMB05 - Ms. Warasinee Mujcharyakul, Mahidol University "Exploring Molecular Basis and Subpopulations of mDC-activated T cells using Single-cell Transcriptomics"	ENV10 - Ms. Ann Basik, Universiti Sains Malaysia "Characterization of Novel Rubber Degrading Bacterial Strains of <i>Dactylosporangium</i> and <i>Microtetraspora</i> Isolated from Sarawak"	BEB07 - Ms. Parinvadee Chukaew, Mahidol University "Conversion of Cassava Rhizome to Alternative Biofuels via Catalytic Hydrothermal Liquefaction"
14.00-14.10	ORT12 - Ms. Nhalinrat Nuengphirom, Kasetsart University "Comparative Life Cycle Assessment Study of Electric Vehicle and Internal Combustion Engine Vehicle in Production phase"	AGR09 -Ms. Bharerat Kumdaj, Mahidol University "Effects of Direct Seeding and Transplanting Methods on Shoot and Root Traits of Rice IR6266 Variety"	AGR15 - Ms. Tatpicha Aowpitaya, Mae Fah Luang University "Preparation of Gelatin-based Films Incorporated with Two Plant Pigments and Their Stability of Antioxidant during in-vitro Digestion"	MMB09 - Ms. Nattapa Prakobphol, Mahidol University "Investigation of Vasculogenic Mimicry in Pancreatic Ductal Adenocarcinoma"	ENV03 - Mr. Kamon Yakul, Chiang Mai University "Thermostable Alkaline Serine Protease from <i>Bacillus halodurans</i> SE5: A Candidate Enzyme for Greener Silk Industry"	BEB08 - Mr. Surawit Kijsermkul, Mahidol University "Co- Pyrolysis of Glycerol with Palm Empty Fruit Bunch using Hybrid Catalyst from Zeolite derived from Kaolin and Activated Carbon"
14.10-14.20	ORT04 - Mr. Dissapat Detnatthawut, Kasetsart University "Life Cycle Assessment of Perovskite Solar Cell"	AGR19 - Mr. Thanat Na Phatthalung, Thammasat University "Interactive Effects of Rice ragged stunt virus Infection in	AGR04 - Ms. Malaiporn Wongkaew, Chiang Mai University	MMB03 - Ms. Nipatthra Phromma-in, King Mongkut's University of Technology Thonburi	ENV04 - Ms. Marina Vance, Mahidol University "Effects of <i>Tsukamurella paurometabola</i> A155 on Germination and Survival of	BEB05 - Ms. Pattamaporn Suwajittanont, Kasetsart University "Batch Scheduling Optimization of Bioethanol Production from

		Rice Host Plant and Insect Vector on Performance of the Brown Planthopper, Nilaparvata lugens"	"Prebiotic Assesement of Pectic Oligosaccharide Hydrolysed from Mango Peel"	"Identification of Volatile Organic Compounds (VOCs) from Endophytic Fungi Xylaria sp. and Their Fungicidal Role"	Rice Seedlings in Arsenic Contaminated Conditions"	Oil Palm Trunk and Empty Fruit Bunch"
14.20-14.30	ORT05 - Mr. Pakon Laopreecha, Kasetsart University "Life Cycle Assessment of Nano-Silica Coating for Solar Photovoltaic Panel"	AGR10 -Mr. Sirapong Tengpavadee, Kasetsart University "Effect of NR Latex Type, Rubber Concentration, and Amount of Surfactant on Shear Adhesion of NR Glue"	AGR08 - Mr. Naing Win Htut Naing, Mahidol University "Administration of the Recombinant WSSV-rVP28 Activates Shrimp Phagocytic Activity"	MMB04 - Mr. Phakorn Papan, Chiang Mai University "Synthesis and Characterization of Iron(III)-Quercetin Complex and Its Potential Application for Differentiation of Circulating Proangiogenic Cells Derived from Peripheral Blood Mononuclear Cells"	ENV01 - Ms. Chanaporn Trakunjae, Kasetsart University "Fabrication and Characterization of Poly(3-Hydroxybutyrate-co-4-Hydroxybutyrate)/Silk Sericin Films for Wound Healing Applications"	BEB10 - Mr. Panuwich Jaekhajad, Maejo University "Biodiesel Production from Waste Cooking Oil using Calcined Blue Crab Shell Ash as Catalyst"
14.30-14.40	ORT10 - Mr. Peetitas Damrongsaktrakul, King Mongkut's University of Technology Thonburi "Rapid separation of Salmonella Typhimurium at a low concentration by using immunomagnetic separation"	AGR06 - Ms. Nattvipa Tokunalai, Kasetsart University "Comparison of Microwave Vacuum Drying, Hot Air Drying and Vacuum Drying Process for Rejuvenating Concoction Drink Powder"	AGR13 - Ms. Warathorn Chumchoochart, Chiang Mai University "Nanocellulose Production from Rice Straw by Enzymatic Hydrolysis and Its Effect on Lipase Activity"	MMB01 - Mr. Kraikrit Utama, Chiang Mai University "Anti-cervical Cancer Activities of 2',4'-Dihydroxy-6'-Methoxy-3',5'-Dimethylchalcone from S. nervosum on Cell Line Models"	ENV07 - Ms. Sujitmanas Temdoung, King Mongkut's University of Technology Thonburi "Disintegration Test of Poly(lactic Acid) blended with Chloroacetate Natural Rubber and Starch"	BEB18 - Ms. Jiranan Rodproobun, Maejo University "The Development of an Extruded Heterogeneous Catalyst for Biodiesel Production"
14.40-14.50		AGR07 - Mr. Wairuj Dechmahitkul, National Center of Genetic Engineering and Biotechnology at KMUTT "Pulsed Infrared Drying of Lactococcus lactis: Effect of Drying Temperatures, Distances from Emitter and Carriers on Viability"	AGR18 - Ms. Supphalak Phichitchaiphon, King Mongkut's University of Technology Thonburi "Isolation of Thermophilic Bacteria with Ability to Produce Lignocellulolytic Enzyme"	MMB06 - Ms. Pornthip Chawapun, Chiang Mai University "Anti-breast Cancer Activity of 2',4'-Dihydroxy-6'-methoxy-3',5'-dimethylchalcone and Its Derivatives from Syzygium nervosum"	ENV05 - Ms. Mya Thandar Khin, Kasetsart University "Deashing and Dewaxing of Sugarcane Trash by Solvent Extraction and Chemical Treatment"	BEB15 - Prof. Bambang Prasetya, National Agency for Standardization "Biorefinery of Lignocellulosic Material: a Review of Pretreatment as Critical Points"
14.50-15.00		AGR20 -Ms. Supawita Nuchnoi, Kasetsart University "Design of In-tube Microwave Pasteurizer for milk"	AGR21 - Mr. Panukorn Boonsit, King Mongkut's Institute of Technology Ladkrabang "Infection Density, Diversity and Distribution of Wolbachia Bacteria in Moths (order Lepidoptera): First Systematic Report from Thailand"	MMB07 - Mr. Unays Siraj, Mahidol University "Effect of Pueraria candollei Grah. ex Benth. and Cissus quadrangularis Linn. Extracts on Reducing Metal Toxicities in Saccharomyces cerevisiae"	BEB04 - Mr. Chayangkul Janta-in, Kasetsart University "Environment and Economic Analysis on Biodiesel Power Plant Derived from Fast Pyrolysis of Empty Fruit Bunch"	BEB02 - Ms. Nopparat Toinoi, Khon Kean University "Biohydrogen and Methane Production from Sugarcane Bagasse, Microalgal Biomass, and Cow dung using Vermihumus as the Inoculum"
15.00-15.10			AGR34 - Mr. Sarawut Chamnina, Prince of Songkla University "Cloning and characterization of a lysozyme gene from banana shrimp, Fenneropenaeus merguensis (FmLyzi1)"	MMB10 - Mr. Hu Rentong, Chiang Mai University "The Effects of Ficus dubia Latex Extract on DMH-induced Aberrant Crypt Foci Formation in Rat Colon"	BEB17 - Mr. Hafidzurrhman Suhairi Hafidz, University of Indonesia "Techno-economic Evaluation of Integrated Levulinic Acid, Formic Acid, and Furfural Plant from Oil Palm Empty Fruit Bunch"	BEB09 - Mr. Sittikorn Sarlor, Thaksin University "High Solid Biogas Production from Co-digestion of Empty Fruit Bunches with a Mixture of Decanter Cake and Biogas Effluent"

15.10-15.20				<p>MMB11 - Mr. GALIH RINEKSA, University of Indonesia</p> <p>"Potential Bioimplant Material from Glycerol Plasticized Starch-Microcrystalline Cellulose Composite"</p>	<p>BEB22 - Mr. Phoowadon Prapruetdee, Kasetsart University</p> <p>"Life Cycle Assessment of MSW-to-Energy Options: Mechanical-Biological Treatment for Biogas and RDF Production versus Incineration Process"</p>	<p>BEB13 - Ms. Kannika Sanpakdee, Maejo University</p> <p>"Pre-treatments of RD-MAEJO 2 Rice Straw for Enhancing Methane Potential"</p>
15.20-15.30				<p>MMB20 - Mr. Kittitat Sirivechphongkul, Kasetsart University</p> <p>"Mask Pad Coated with Lignin from Empty Fruit Bunches"</p>	<p>BEB23 - Mr. Gridsada Potongtam, Kasetsart University</p> <p>"Comparative Life Cycle Assessment of the Different Type of Feedstock for the Power Generation Via Gasification Process"</p>	<p>BEB14 - Ms. SUPATTRA IN-CHAN, Thaksin University Phatthalung Campus</p> <p>"Enhancement of Biohythane Production from Palm Oil Mill Effluent using Thermophilic Two-Ring Bioreactor Augmented with <i>Thermoanaerobacterium thermosaccharolyticum</i> Strain PSU-2"</p>
15.30-15.40					<p>BEB11 - Ms. Bantita Chomphutong, Kasetsart University</p> <p>"Kinetic Modeling of Renewable Diesel from Stearic Acid in MATLAB"</p>	<p>BEB03 - Dr. Rawitsara Intasit, King Mongkut's University of Technology Thonburi</p> <p>"Production of Cellulase-free Xylanase from <i>Pichia pastoris</i> using Agricultural Wastes as a Substrate under Solid and Submerged Fermentation"</p>
15.40-15.50						<p>BEB01 - Mr. Chakkapan Sapkaew, Kasetsart University</p> <p>"Genome-Scale Comparative Metabolic Analysis Between High and Low Lipid-Producing Strains of <i>Aspergillus oryzae</i>"</p>