

SCHEDULE OF ORAL PRESENTATIONS

Please prepare your presentation with Microsoft Office 2013 or earlier version and provide your presentation file (.ppt, .pptx, .pdf) to TSB2017 staffs at the conference rooms during 12:30 – 13:00 on November 23, 2017, and 8:30 – 9:00 or 12:30 - 13:00 on November 24, 2017.

SESSION: Food & Agricultural Biotechnology

Oral Presentations		
SESSION	Food & Agricultural Biotechnology	
ROOM	Ballroom	
Chairperson	Assistant Professor Dr. Surapong Pinitglang	
Co-Chairperson	Assistant Professor Dr. Theerawut Phusantsumpan	
Thursday, 23 November 2017		
13.30-14.00	Invited Speakers	The demonstration project for a cellulosic sugar production system using bagasse in the Kingdom of Thailand Mr. Tatsuya Matsuno Toray Industries (Thailand) Co., Ltd.
14:00-14:20	FA-O-037	The effect of ultrasound and pectinase enzyme treatment for antioxidant activity in mulberry juice prepared for wine fermentation Sarawut Boonnar
14:20-14:40	FA-O-054	Comparative metabolomics of rice between mechanical and brown planthopper (BPH) puncture using liquid chromatography-Orbitrapmass spectrometry (LC-HRMS) Supavadee Yatapan
14:40-15:00	FA-O-059	Novel bioactive peptides with antioxidant and antihypertension activities from ginger rhizome Kamonwan Sompinit
15:00-15.30	Coffee Break	
15:30-15:50	FA-O-085	Aquaponics systems for sustainable agriculture and technology education Phillip L. Thompson
16.30-18.30	Poster Presentation I & The 29 th Annual Meeting of TSB Members	
18.00-21.00	Welcome Reception and Dinner	

SESSION: Food & Agricultural Biotechnology

Oral Presentations		
SESSION	Food & Agricultural Biotechnology	
ROOM	Ballroom	
Chairperson	Associate Professor Dr. Mullika Chomnawang	
Co-Chairperson	Assistant Professor Dr. Sirikhwan tinrat	
Friday, 24 November 2017		
11:00-11:30	Invited Speakers	Genetic engineering of a rumen <i>Escherichia coli</i> to produce optical isomers of lactic acid Prof. Dr. Wen-Chien Lee Department of Chemical Engineering, National Chung Cheng University, Taiwan
11:30-11:50	FA-O-082	The preparation and characterization of bacterial nanocellulose with turmeric substances Vachanont Tangsatianpan
11:50-13:30	Lunch	
13:30-13:50	FA-O-105	Optimization production of thermostable alkaline-protease from <i>Bacillus halodurans</i> SE5 and its application on bioactive peptides production from sericin Kamon Yakul
13:50-14:10	FA-O-095	Effect of different carbon sources from sugar industry on bacterial nanocellulose production Watcharapon Jaroennonthasit
15.30-16.30	Coffee Break & Poster Presentation II	
16.30-17.30	Closing Ceremony	

SESSION: Environmental Biotechnology

Oral Presentations		
SESSION	Environmental Biotechnology	
ROOM	Jamjuree	
Chairperson	Associate Professor Dr. Haruhiko Toyohara	
Co-Chairperson	Dr. Parinda Thayanukul	
Thursday, 23 November 2017		
13.30-14.00	Invited Speakers	Microbiome composition and function in bioremediation of petroleum hydrocarbon-contaminated environment Assoc. Prof. Dr. Onruthai Pinyakong Dept. Of Microbiology, CU
14:00-14:20	EB-O-024	Detection of native arsenite-oxidizing bacteria in groundwater within/around a gold mining area, Thailand Supeerapat Kraidech
14:20-14:40	EB-O-118	Screening of desulfurized microbes from sulfur-contaminated soil in Thailand Benja Kaewpetch
14:40-15:00	EB-O-121	Identification of n-alkane chemoreceptors in <i>Pseudomonas aeruginosa</i> PAO1 Jaturong Promsuk
15:00-15.30	Coffee Break	
15:30-15.50	EB-O-126	Analysis of transcriptional regulatory system in 4-chloroaniline-degrading <i>Acinetobacter baylyi</i> strain GFJ2 Tipsuda Subsanguan
15:50-16.10	EB-O-077	Production and characterization of α -1,4-glucosidase from <i>Bacillus licheniformis</i> KIBGE-IB4 by utilizing sweet potato peel Muhammad Asif Nawaz
16.30-18.30	Poster Presentation I & The 29 th Annual Meeting of TSB Members	
18.00-21.00	Welcome Reception and Dinner	

SESSION: Environmental Biotechnology

Oral Presentations		
SESSION	Environmental Biotechnology	
ROOM	Jamjuree	
Chairperson	Associate Professor Dr. Shaily Mahendra	
Co-Chairperson	Dr. Prapakorn Tantayotai	
Friday, 24 November 2017		
11:00-11:30	Invited Speakers	Vault nanoparticles: A platform technology for industrial and environmental application Assoc. Prof. Dr. Shaily Mahendra Department. of Civil and Environmental Engineering University of California, Los Angeles, USA
11:30-11:50	EB-O-084	Wetland treatment of graywater from a commercial building Phillip L. Thompson
11:50-13:30	Lunch	
13:30-13:50	EB-O-165	Study of 17 α -methyltestosterone degradation of <i>Nocardioides</i> sp. strain S303 isolated from masculinizing ponds of Nile tilapia Boonyakit Niamhom
13:50-14:10	EB-O191	Phospholipids and antimicrobial activity of actinomycetes from mangrove forest soils in Eastern part of Thailand Khanungkan Klanbut
14:10-14:30	EB-O-200	Effect of Cd and EDTA mixtures on phytotolerance, phytotoxicity and phytoremediation using napier grass Aekkacha Tananonchai
14:30-14:50	EB-O-143	The effects of paraquat on diversity and evenness index of attached diatom in microcosm Suttayot Yimpoolsap
15.30-16.30	Coffee Break & Poster Presentation II	
16.30-17.30	Closing Ceremony	

SESSION: Molecular Biology & Bioinformatics

Oral Presentations		
SESSION	Molecular Biology & Bioinformatics	
ROOM	Krisana	
Chairperson	Associate Professor Dr. Chuenchit Boonchird	
Co-Chairperson	Dr. Suriya Rutatip	
Thursday, 23 November 2017		
13.30-14.00	Invited Speakers	Next Generation Sequencing (NGS) Dr. Pinidphon Prombutara Omics Sciences and Bioinformatics Center, CU
14:00-14:20	MB-O-012	Identification of a mechanism involved in shrimp (<i>Penaeus monodon</i>) surviving white spot syndrome virus (WSSV) infection Phasini Buathongkam
14:20-14:40	MB-O-114	Functional characterization of cytosolic DDX41 sensor in mediating antiviral immune response in black tiger shrimp <i>Penaeus monodon</i> Suthinee Soponpong
14:40-15.00	MB-O-147	Recent situation of shrimp early mortality syndrome and acute hepatopancreatic necrosis disease in Thailand Kallaya Sritunyalucksana
15:00-15.30	Coffee Break	
15:30-15:50	MB-O-190	The binding of WSSV VP37 to shrimp hemocytes is mediated by its C terminal domain and inhibited by red seaweed sulfated galactan Pongsak Khunrae
15:50-16:10	MB-O-100	Antioxidant property of honey from <i>Trigona</i> spp. Siriporn Thongmee
16:10-16:30	MB-O-152	The selective anticancer effect of epistructured catechins on apoptosis induction via blocking de novo lipogenesis pathway and activity of carnitine palmitoyl transferase (CPT)-1 in HepG2 cells Phuriwat Khiewkamrop
16.30-18.30	Poster Presentation I & The 29 th Annual Meeting of TSB Members	
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SESSION: Molecular Biology & Bioinformatics

Oral Presentations		
SESSION	Molecular Biology & Bioinformatics	
ROOM	Krisana	
Chairperson	Professor Dr. Watanalai Panbangred	
Co-Chairperson	Associate Professor Dr.Rungaroon Waditee-sirisattha	
Friday, 24 November 2017		
11:00-11:30	Invited Speakers	Engineering and Optimization for higher alcohol production in yeast Dr. Weerawat Runguphan Biodiversity and Biotechnological Resource Research Unit, BIOTEC
11:30-11:50	MB-O-034	<i>In vitro</i> production of L-cysteine using thermophilic enzymes Kinetic modeling and computer-aided optimization of enzyme loading Kohsuke Honda
11:50-13:30	Lunch	
13:30-13:50	MB-O-043	Purification and characterization of thermostable karatinolytic protease from <i>Fervidobacterium</i> sp. strain FA004 isolated in Thailand Nutthawut Pheungphasutadol
13:50-14:10	MB-O-133	A complex lignocellulolytic enzyme system of <i>Xylaria</i> sp. BCC 1067 revealed by Single-Molecule Real-Time whole genome sequencing Nuthatai Suteerapongpan
14:10-14:30	MB-O-053	Genome-wide DNA points to recent phenotypic diversification in novel montane rainforest passerine in Thailand Somchai Nimnuan
14:30-14:50	MB-O-072	A novel sucrose based expression system for heterologous protein expression in thermotolerant methylotrophic yeast <i>Ogataea thermomethanolica</i> TBRC656 Niran Roongsawang
14:50-15:10	MB-O-173	Knockout of mannosyltransferase gene MNN6 in <i>Pichia pastoris</i> for yeast cell surface display Napathip Lertpreedakorn
15.30-16.30	Coffee Break & Poster Presentation II	
16.30-17.30	Closing Ceremony	

SESSION: Bio-energy & Biomass

Oral Presentations		
SESSION	Bio-energy & Biomass	
ROOM	Shanghai	
Chairperson	Prof. Dr. Wen-Chien Lee	
Co-Chairperson	Dr. Jakkrawut Maitip	
Thursday, 23 November 2017		
13.30-14.00	Invited Speakers	Improvement of Biogas production by enhancing methanogenic activities Assoc. Prof. Dr. Chantaraporn Phalakornkul Dept. of Chemical Engineering, KMUTNB
14:00-14:20	BB-O-074	Selection of xylose-fermenting yeast for ethanol production from sugarcane tops hydrolysate Thitinun Sumyai
14:20-14:40	BB-O-196	Biogas production from organic fraction of municipal solid waste with incinerator fly ash addition for pH control Wattananarong Markphan
15:00-15.30	Coffee Break	
15.30-15:50	BB-O-129	Transcriptional regulator Znf1 enhances acetic acid tolerance during alcoholic fermentation in <i>Saccharomyces cerevisiae</i> Pattanan Songdech
15:50-16:10	BB-O-115	Biochemical property of a novel glycoside hydrolase Family43 (GH43) of <i>Paenibacillus curdolanolyticus</i> B-6 Thitiporn Teeravivattanakit
16.30-18.30	Poster Presentation I & The 29 th Annual Meeting of TSB Members	
18.00-21.00	Welcome Reception and Dinner	

SESSION: Bio-energy & Biomass

Oral Presentations		
SESSION	Bio-energy & Biomass	
ROOM	Shanghai	
Chairperson	Assistant Professor Dr. Duangkamol Ruen-ngam	
Co-Chairperson	Dr. Benjamaporn Wonganu	
Friday, 24 November 2017		
11:00-11:30	Invited Speakers	Biogas upgrading via CO ₂ absorption in a microtube Assoc. Prof. Dr. Attasak Jaree Dept. of Chemical Engineering, KU
11.30-11.50	BB-O-112	Optimization for organic acids pre-treatment of oil palm trunks by response surface methodology Patcharin Jarastrakull
11:50-13:30	Lunch	
13.30-13.50	BB-O-134	Biological pretreatment of rice straw with ligninolytic enzymes from <i>Panus neostriigosus</i> I9 Ariyah Terasawat
13.50-14.10	BB-O-171	Alkaline hydrogen peroxide pretreatment of lignocellulose: relationship of structural change and sugar production Paripok Phitsuwan
15.30-16.30	Coffee Break & Poster Presentation II	
16.30-17.30	Closing Ceremony	

SESSION: Medical & Pharmaceutical Biotechnology

Oral Presentations		
SESSION	Medical & Pharmaceutical Biotechnology	
ROOM	Rachawadee	
Chairperson	Assistant Professor Dr. Potchanapond Graidist	
Co-Chairperson	Dr. Chatchawan Singhapol	
Thursday, 23 November 2017		
13.30-14.00	Invited Speakers	Co-expression of benzylisoquinoline alkaloids (BIA) biosynthetic genes in mechanically wounded lotus leave Assist. Prof. Dr. Sornkanok Vimolmangkang Dept. of Pharmacognosy and Pharmaceutical Botany, CU
14:00-14:20	MP-O-048	Potent anticancer activity of Kusunokinin and 5'-desmethoxyyatein against breast cancer, colon cancer, and cholangiocarcinoma cancer cell lines Thidarath Rattanaburee
14:20-14:40	MP-O-078	Identification and suppressing liver cancer cell proliferation of probiotic bacteria obtained from Thai infant feces Kantapich Sriksam
14:40-15:00	MP-O-145	Functional and expression analysis of a gene encoding peroxiredoxinlike protein in <i>Pseudomonas aeruginosa</i> Benya Nontaleerak
16.30-18.30	Poster Presentation I & The 29 th Annual Meeting of TSB Members	
18.00-21.00	Welcome Reception and Dinner	

**SESSION: Medical & Pharmaceutical Biotechnology and Thai-Japanese
Joint Session: Enzyme Engineering for Industries**

Oral Presentations		
SESSION	Medical & Pharmaceutical Biotechnology and Thai-Japanese Joint Session: Enzyme Engineering for Industries	
ROOM	Rachawadee	
Chairperson	Professor Dr. Kazuhito Fujiyama (Osaka University)	
Co-Chairperson	Associate Professor Dr.Savitri Vatanyoopaisarn (KMUTNB)	
Friday, 24 November 2017		
11:00-11:30	Invited Speakers	Revisiting of actinobacteria as a source of novel antimicrobial compounds Dr. Glyn Hobbs School of Pharmacy and Biomolecular Sciences, Liverpool John Moores University, UK.)
11:30-11:50	MP-O-199	<i>Ex vivo</i> efficacy assessment of therapeutic beta-globin lentiviral vector for beta-thalassemia treatment using imaging flow cytometry analysis Suphanun Phuphanitcharoenkun
11:50-13:30	Lunch	
13:30-13:50	EE-O-001	The magic of enzymes in making of trehalose Dr. Tsubasa Hosaki
13:50-14:10	EE-O-006	Bioeconomy & Bioinnovation towards Thailand 4.0 Dr. Chaya Chandavasu, Dr. Phatthanon Prasitchoke
14:10-14:30	EE-O-002	Industrial production of functional lipids through lipase-mediated processes and their reaction mechanisms Dr. Toshihiro Nagao
14:30-14:50	EE-O-004	Discovery and engineering of glycosyl hydrolases from environmental metagenomes for green industry Dr. Verawut Champreda
14:50-15:10	EE-O-003	Protein engineering on a subtilisin-like protease from a hyperthermophilic archaeon Assoc. Prof. Dr. Yuichi Koga
15:10-15:30	EE-O-005	Glucose dehydrogenase from <i>Bacillus amyloliquefaciens</i> SB5 and its applications in bioproduction of chemicals Asst. Prof. Dr. Thunyarat Pongtharangkul
15.30-16.30	Coffee Break & Poster Presentation II	
16.30-17.30	Closing Ceremony	

SESSION: Food Biotechnology and Nanobiotechnology & other related areas

Oral Presentations		
SESSION	Food Biotechnology and Nanobiotechnology & other related areas	
ROOM	Salon	
Chairperson	Professor Dr. Vilai Rungsardthong	
Co-Chairperson	Dr. Ratiya Charoensakdi	
Thursday, 23 November 2017		
13.30-14.00	Invited Speakers	Development of targeted chitosan core-shell nanoparticles for the treatment of human breast cancer Assoc. Prof. Dr. Kwanchanok Viravaidya-Pasuwat Dept. of Chemical Engineering, KMUTT
14:00-14:20	NO-O-182	Encapsulation of fragrance in zein nanocapsule Usaraphan Pithanthanakul
14:20-14:40	NO-O-071	Green synthesis of silver nanoparticles: generation of new antimicrobial compounds to combat infectious diseases Sidra Pervez
14:40-15.00	FA-O-014	Comparative metabolomic profiling of liquid milk products in Thailand using 1H-NMR technique Mayuree Luangwilai
15:00-15.30	Coffee Break	
15:30-15:50	FA-O-067	Effects of frozen radish juice as a natural curing agent with <i>Staphylococcus carnosus</i> as a starter culture on cooked sausage during storage Nattha Suntorntarawong
15:50-16:10	FA-O-079	The use of rice processing by-products as an alternative substrate for <i>Aspergillus oryzae</i> in solid state cultivation Teeranuch Jarivatanasirinon
16.30-18.30	Poster Presentation I & The 29 th Annual Meeting of TSB Members	
18.00-21.00	Welcome Reception and Dinner	

SESSION: Food Biotechnology and Nanobiotechnology & other related areas

Oral Presentations		
SESSION	Food Biotechnology and Nanobiotechnology & other related areas	
ROOM	Salon	
Chairperson	Professor Dr. Vilai Rungsardthong	
Co-Chairperson	Dr. Kittipong Rattanaporn	
Friday, 24 November 2017		
11:00-11:30	Invited Speakers	Mucoadhesive engineered Bio-nanocarriers for Drug delivery: Fabrication with improved activities Dr. Uracha Ruktanonchai (Deputy Executive Director, NANOTEC)
11:30-11:50	NO-O-007	Biomedical developments for skin cancer Hui-Min David Wang
11:50-13:30	Lunch	
13:30-13:50	FA-O-093	Screening for entrapment conditions of tributyrin in canna starch granules Aubolwan Rangsin
13:50-14:10	FA-O-106	Reducing diacetyl content in economic lager beer by valine supplementation Sreymom Tith
14:10-14:30	FA-O-110	Koji culture for rice wine production Utoomporn Kulanam
14:30-14:50	FA-O-180	Effect of ultrasound pretreatment on desalination of salted jellyfish Artima Lueyot
15.30-16.30	Coffee Break & Poster Presentation II	
16.30-17.30	Closing Ceremony	