

Program schedule

The 18th International Symposium on Biocontrol and Biotechnology (ISBB2022)

June 16-17, 2022 (Online conference via ZOOM)

(Time indicated here is GMT+7)

Day 1; June 16, 2022	
8:30 – 9:00	Participant joining via zoom
Opening session 9:00 – 9:30	
Master of Ceremony: Dr. Bunyarit Meksiriporn	
9:00 – 9:10	Report and welcome address by Assoc. Prof. Dr. Sutee Chutipaijit, Dean of School of Science, King Mongkut's Institute of Technology Ladkrabang
9:10 – 9:20	Welcome address by Prof. Liu Hong, Vice President of Harbin Institute of Technology
9:20 – 9:30	Opening address by Assoc. Prof. Dr. Anuwat Jangwanitlert, Acting President of King Mongkut's Institute of Technology Ladkrabang
Plenary session I 9:30 – 12:00	
Chairperson: Assoc. Prof. Dr. Chokchai Kittiwongwattana	
9:30 – 10:30	Topic I: “Control of plant and food pathogens by vapor-phase vinegar” by Prof. Dr. Warawut Krusong, School of Food Industry, King Mongkut's Institute of Technology Ladkrabang, Thailand
10:30 – 11:30	Topic II: “An engineered genetic selection strategy to uncover productive binders against difficult-to-drug targets” by Dr. Bunyarit Meksiriporn, School of Science, King Mongkut's Institute of Technology Ladkrabang, Thailand
11:30 – 12:30	Topic III: “COVID-19 mRNA vaccine development: ChulaCov19” by Prof. Dr. Kiat Ruxrungham, Chula Vaccine Research Center (ChulaVRC), School of Global Health, Faculty of Medicine, Chulalongkorn University, Thailand
12:30 – 13:00	Lunch break
Plenary session II 13:00 – 15:00	
Chairperson: Dr. Bunyarit Meksiriporn	

13:00 – 14:00	Topic IV: “Extension of the biotechnique for recycling the waste from potato starch industry” by Prof. Dr. Yang Qian, School of Life Science and Technology, Harbin Institute of Technology, P.R. China
14:00 – 15:00	Topic V: “Biological control of erophyoid mites and their use as biological agents for weed control” by Assoc. Prof. Dr. Mariusz Lewandowski, Department of Plant Protection, Institute of Horticultural Sciences, Poland
15:00 – 15:15	Session break
Oral session I 15:15 – 16:45 Chairperson: Asst. Prof. Dr. Wipawee Dejtsakdi	
15:15 – 15:45	Topic I: “Production of microbial biocontrol agents from <i>Bacillus thuringiensis</i> for targeting plant-parasitic nematodes” By Mr. Pasin Jammor
15:45 – 16.15	Topic II: “Effects of fermentation on black soldier fly as animal feed additive” by Dr. Liu He
16.15 – 16.45	Topic III “Study and utilization of chlamydospores of <i>Trichoderma</i> ” by Dr. Li Mei
Day 2; June 17, 2022	
Oral session II 8:30 – 12:00 Chairperson: Dr. Khanungkan Klunbut and Assoc. Prof. Dr. Chokchai Kittiwongwattana	
8:30 – 9:00	Topic I: “Chemical analysis and bioactivity of essential oil from <i>Salacca wallichiana</i> Mart.: herbicidal, antibacterial and antioxidant activity” by Mr. Nutchana Manichart
9:00 – 9:30	Topic II: “From an in-depth interview on pesticide use behavior to the development of a pesticide residue test kit” by Mr. Kotchakorn Krikaew
9:30 – 10:00	Topic III: “Improvement of <i>Cananga odorata</i> essential oil-based pre-emergence bioherbicide using an ultrasonic emulsification method: bioherbicidal activity against <i>Amaranthus tricolor</i> ” by Ms. Naphat Somala

10:00 – 10:30	Topic IV: “Impact of degraded agrochemical and heavy metal bio-products on soil microbiota” by Ms. Paweena Tamsamear
10:30 – 11:00	Topic V: “Synbiotic beverage production from mangosteen juice mixed with yam bean juice using <i>Lactobacillus casei</i> 431” by Ms. Yuwadee Sinlapajan
11:00 – 11:30	Topic VI: “Characteristics and antioxidant activities of kombucha from black tea and roselle by a mixed starter culture” by Ms. Tanyarat Sutthiphatkul
11:30 – 12:00	Topic VII: “Effect of bioproduct for degraded chemical residues on inhibited <i>Sclerotium rolsii</i> cause root and stem rot of green oak” by Ms. Warisara Surattaseranee
Oral Session III 8:30 – 12:00 Chairperson: Asst. Prof. Dr. Patcharaporn Weerachawanasak and Asst. Prof. Dr. Wipawee Dejtisakdi	
8:30 – 9:00	Topic I: “Nanoporous carbon derived from oil palm leaves via hydrothermal carbonization for adsorbent” by Mr. Sirayu Chanpee
9:00 – 9:30	Topic II: “Synthesis of nanoporous carbon derived from vinasses wastes via carbonization for adsorbent” by Ms. Phetcharat Nenyoo
9:30 – 10:00	Topic III: “Nanoporous carbon derived from lignin extracted from black liquor via pyrolysis carbonization for catalytic support” by Mr. Tassanai Tempiam
10:00 – 10:30	Topic IV: “Development of carbamate and organophosphate residue detection kits in durian” by Ms. Ponchanok Datmanee
10:30 – 11:00	Topic V: “Effects of cyanobacterium <i>Nostoc</i> sp. extract on growth of Brahmi (<i>Bacopa monniera</i>)” by Asst. Prof. Dr. Surasak Laloknam
11:00 – 11:30	Topic VI: “Improving the quality of lunar regolith simulant soil for future food security” by Mr. Thitiwat Jirasirichot

11:30 – 12:00	Topic VII: “Identification of <i>bla_{OXA-72}</i> gene associated with high-level carbapenem resistance in a multidrug-resistant <i>Acinetobacter baumannii</i> isolate in Thailand” by Mr. Made Rai Dwitya Wiradiputra
Poster session I 13:00 – 14:30 Chairperson: Asst. Prof. Dr. Vorapat Sanguanchaipaiwong	
13:00 – 13:15	Title: “Actinomycetes from endophytic and epiphytic root of five medicinal plants and their antimicrobial activity” by Dr. Khanungkan Klanbut
13:15 – 13:30	Title: “Actinomycetes from organic rice field soil, their antagonistic activity and antimicrobial activity” by Dr. Khanungkan Klanbut
13:30 – 13:45	Title: “Production of yeast extract powder from spent yeast of bioethanol plant and its potential use as a nitrogen source in fermentation” by Ms. Sikarinthan Lhakot
13:45 – 14:00	Title: “Quality control of six ingredients in Prasamawaeng traditional anti-cough formula using thin-layer chromatography technique” by Ms. Phatchada Chunhavacharatorn
14:00-14:15	Title: “Stability of the key substances in <i>Isaria tenuipes</i> extracts in cosmetic products” by Assoc. Prof. Aree Rittiboon
14:15-14:30	Title: “Cytotoxicity effect of acetone extracts from <i>Physalis angulata</i> L. fruits on acid-fast <i>Mycobacterium tuberculosis</i> H37Ra relation with lung cancer cell (NCI-H 187)” by Ms. Thanavadee Boonchaidee
Poster session II 13:00 – 14:30 Chairperson: Dr. Bunyarit Meksiriporn	
13:00-13:15	Title: “Production of geranylgeraniol by metabolic engineered <i>Escherichia coli</i> ” By Mr. Jatupong Sitsutheechananon
13:15 – 13:30	Title: “The antibacterial and antifungal activity of phenolic compounds extracted from various parts of <i>Mangifera indica</i> L. fruits against pathogenic bacteria and <i>Aspergillus niger</i> ” by Dr. Watcharin Yuttavanichakul

13:30 – 13:45	Title: “Peanut shell nanoporous carbon from hydrothermal-carbonization assisted KOH activation for glyphosate adsorption” by Mr. Kairawee Buabucha
13:45 – 14:00	Title: “Characterization of a gene cassette structure of <i>bla</i> _{imp-65} gene from a MDR <i>Pseudomonas aeruginosa</i> in Thailand” by Mr. Chayathorn Purungrit
14:00 – 14:15	Title: “Biosynthesis of silver nanoparticles using of <i>Chlorella</i> sp. extract and antibacterial activity investigation” by Ms. Piyapan Manklinniam
14:15 – 14:30	Title: “Medium effects on antifungal activity and biosynthetic gene expression of <i>Bacillus velezensis</i> 2211, a plant-growth-promoting bacterium” by Assoc. Prof. Dr. Chokchai Kittiwongwattana
14:30 – 14:45	Title “Solid phase extraction with the UHPLC–MS/MS for detection of tetracyclines antibiotics residues in composting system of black soldier fly larva” by Dr. Xia Yang
14:30 – 15:00	Session Break
Closing Session 15:00 – 15:30 Master of Ceremony: Dr. Bunyarit Meksiriporn	
15:00 – 15:15	Awards ceremony for best oral and poster presentation and Announcement of the host for the 19th International Symposium by Assoc. Prof. Dr. Mariusz Lewandowski, Department of Plant Protection, Institute of Horticultural Sciences, Poland
15:00 – 15:30	Closing speech by Assoc. Prof. Dr. Sutee Chutipaijit, Dean of School of Science, King Mongkut’s Institute of Technology Ladkrabang