



# 19th International Symposium on Biocontrol and Biotechnology

Warsaw, September 7-9, 2023

## Program Schedule

<b>Day 1: September 7, 2023</b>	
9.00 – 10.00	Participants' registration at the registration desk in the Main Library of WULS (WULS Campus, Building 48, 161 Nowursynowska St.)
<b>Opening session 10.00 – 10.30</b> Master of Ceremony: Dr. Tobiasz Druciarek	
10.00 – 10.30	Welcome address by Associate Professor Dr. Dariusz Wrona, Director of the Institute of Horticultural Sciences, WULS
	Welcome address by the representative of Harbin Institute of Technology (Online)
	Opening address by Associate Professor Dr. Anuwat Jangwanitlert, D.Eng. Executive Vice President for Academic Affairs from KMITL
<b>Session I 10.30 – 13.10</b> Chairperson: Asst. Prof. Dr. Karn Wongsariya and Dr. Jatuporn Meesin	
10.30 – 11.40	Keynote speaker: <b>Qian Yang</b> (online) “ <b>The keystone taxa were significantly correlated with the carbon source utilization of bacterial communities in <i>Litopenaeus vannamei</i> Ponds</b> ” Qiong Zhao <sup>1,2</sup> , Fengxing Xie <sup>1</sup> , Fengfeng Zhang <sup>1</sup> , Ke Zhou <sup>1</sup> , Yujie Zhao <sup>1</sup> , Qian Yang <sup>2</sup> ( <sup>1</sup> Tianjin Institute of Agriculture Resource and Environment, Tianjin, China; <sup>2</sup> Harbin Institute of Technology, Harbin, China) (A-013)
11.40 – 12.10	Presentation by <b>Shuang Wang</b> (online) “ <b>Insights into the diversity of bacterial communities in saline-alkaline soils from songnen plain in China</b> ” Shuang Wang, Pin-Jiao Jin, Lei Sun, Kang-Kang Wang (Heilongjiang Academy of Black Soil Conservation & Utilization, Heilongjiang Academy of Agricultural Sciences; Key Lab of Soil Environment and Plant Nutrition of Heilongjiang Province; Heilongjiang Fertilizer Engineering Research Center, Harbin, China) (A-012)
12.10 – 12.40	Presentation by <b>Pimpikar Kanchanadumkerng</b> “ <b>Molecular cloning, identification, and expression of <math>\beta</math>-glucosidase encoding gene from <i>Bacillus safensis</i> m3</b> ” <b>Pimpikar Kanchanadumkerng</b> <sup>1</sup> and Chanpen Wiwat <sup>2</sup> ( <sup>1</sup> Department of Food Chemistry, Faculty of Pharmacy, Mahidol University, Bangkok, Thailand, and <sup>2</sup> Department of Microbiology, Faculty of Pharmacy, Mahidol University, Bangkok, Thailand) (A-010)
12.40 – 13.50	<b>Lunch break</b>
<b>Session II 13.50 – 16.00</b> Chairperson: Assoc. Prof. Dr. Apiluck Eiad-ua and Assoc. Prof. Dr. Cherdasak Maneeruttanarungroj	
13.50-14.40	Keynote speaker: <b>Anna M. Linkiewicz</b> “ <b>Genome editing for crop improvement</b> ” (Laboratory of Molecular Biology and Genetics, Institute of Biological Sciences, Faculty of Biology and Environmental Sciences, Cardinal Stefan Wyszyński University in Warsaw, and Plant Breeding and Acclimatization Institute-NRI, Radzików, Poland) (A-020)



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14.40 – 15.10	<p>Presentation by <b>Teerawat Sarutayophat</b>  <b>“Detection of the <i>Bph1</i> gene in twenty Indica rice cultivars using cleaved amplified polymorphic sequence (CAPS) markers”</b>  <b>Teerawat Sarutayophat</b><sup>1</sup>, Pattama Nitthaisong<sup>1</sup>, Phairat Phimsirikul<sup>1</sup>, Yoshikazu Hoshi<sup>2</sup>, Kaori Imamura<sup>2</sup>, Koukei Yagi<sup>2</sup>, Manabu Katano<sup>2</sup>, Masaya Matsumura<sup>3</sup>, Pakanan Jiamtae<sup>4</sup> (<sup>1</sup>Department of Plant Production Technology, School of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand; <sup>2</sup>Department of Plant Science, School of Agriculture, Tokai University, Aso, Kumamoto Japan; <sup>3</sup>Laboratory of Pest Management Systems, Kyushu National Agricultural Experiment Station, Kumamoto, Japan; <sup>4</sup>National BioResource Project, Faculty of Regional Innovation, University of Miyazaki) (A-019)</p>
15.10 – 15.40	<p>Presentation by <b>Kankanit Khwanpruk</b>  <b>“Production of spray dried chili oil powder”</b>  Samak Rakmae, Chakriya Sakunputtipaiboon, Jitpanu Jirakaitikul, Ratchakarn Engchuan and <b>Kankanit Khwanpruk</b> (Department of Food Engineering, School of Engineering, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand) (A-018)</p>
15.40 – 16.00	<b>Coffe break</b>
<b>Poster session 16.00 – 17.50</b>	
Chairperson: Asst. Prof. Dr. Karn Wongsariya and Dr. Jatuporn Meesin	
16.00 – 16.10	<p>Poster by <b>Suree Nanasombat</b>  <b>“Combined effect of acid salts with clove and cinnamon oils on controlling of postharvest decay in carrot during chill storage”</b>  <b>Suree Nanasombat</b> and Saranya Phunpruch (Department of Biology, School of Science, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand) (A-001)</p>
16.10 – 16.20	<p>Poster by <b>Kanokrat Srikijkasemwat</b>  <b>“Exploring the effects of mangosteen peel crude extract on diarrhea in pre-weaning piglets”</b>  <b>Kanokrat Srikijkasemwat</b><sup>1</sup> and Nicharee Srikijkasemwat<sup>2</sup> (<sup>1</sup>Department of Animal Production Technology and Fisheries, School of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand; <sup>2</sup>Department of Engineering of Science, University of Oxford, UK) (A-003)</p>
16.20 – 16.30	<p>Poster by <b>Nattaya Montri</b>  <b>“Elicitation by ethephone enhanced stemona alkaloids accumulation in <i>Stemona curtisii</i> Hook. f.”</b>  <b>Nattaya Montri</b>, Manita Kampan and Sukanya Saenpakdee (Department of Plant Production Technology, School of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand) (A-004)</p>
16.30 – 15.40	<p>Poster by <b>Varee Yoosumran</b>  <b>“Effect of colchicine on induced mutation of <i>Curcuma</i> hybrid cv. Sweetmemory in vitro”</b>  <b>Varee Yoosumran</b><sup>1</sup>, Kanjana Saetiew<sup>1</sup>, Soraya Ruamrungsri<sup>2</sup>, Angsana Akarapisan<sup>3</sup>, Montinee Teerarak<sup>1</sup> (<sup>1</sup>Department of Plant Production</p>



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	Technology, School of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand; <sup>2</sup> Department of Plant and Soil Science, Faculty of Agriculture, Chiang Mai University, Chiang Mai, Thailand; <sup>3</sup> Department of Entomology and Plant Pathology, Faculty of Agriculture, Chiang Mai University, Chiang Mai 0, Thailand) (A-007)
16.40 – 16.50	Poster by <b>Somkiat Seesanong</b> <b>“Using potassium nitrate and potassium chloride on growth and antioxidant properties of brahmi (<i>Bacopa monnieri</i>) in hydroponics”</b> <b>Somkiat Seesanong</b> , Piyatida Ounnahakhongkha, Uscharee Ruangdej and Nongnuch Laohavisuti (School of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand) (A-008)
16.50 – 17.00	Poster by <b>Nongnuch Laohavisuti</b> <b>“Micropropagation of aquarium plant, <i>Anubias</i> sp. “white” using adenine sulfate and 6-benzylaminopurine”</b> <b>Nongnuch Laohavisuti</b> , Achara Srisawang, Buppha Jongput, and Somkiat Seesanong (School of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand) (A-009)
17.00 – 17.10	Poster by <b>Sujitra Sukonthamut</b> <b>“Effect of Chinese rice flower leaf extract on blast disease”</b> Chonpisit Sanwittayakul <sup>1</sup> , Somporn Phlaiyong <sup>1</sup> , Ananyalak Sanmuengmoon <sup>1</sup> , <b>Sujitra Sukonthamut</b> <sup>2</sup> , Dusanee Thanaboripat <sup>1</sup> , and Chamroon Laosinwattana <sup>3</sup> ( <sup>1</sup> Department of Biology, School of Science, King Mongkut's Institute of Technology Ladkrabang, Thailand; <sup>2</sup> Department of Statistics, School of Science, King Mongkut's Institute of Technology Ladkrabang, Thailand; <sup>3</sup> School of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand) (A-014)
17.10 – 17.20	Poster by <b>Sittichai Charoensettasilp</b> <b>“Control of rice blast disease by marigold leaf extract”</b> Warittha Bonnumsirijit <sup>1</sup> , Adisorn Srikomnuid <sup>1</sup> , Ilada Jubunchob <sup>1</sup> , Sujitra Sukonthamut <sup>2</sup> , Dusanee Thanaboripat <sup>1</sup> , Chamroon Laosinwattana <sup>3</sup> and <b>Sittichai Charoensettasilp</b> <sup>2</sup> ( <sup>1</sup> Department of Biology, School of Science, King Mongkut's Institute of Technology Ladkrabang, Thailand; <sup>2</sup> Department of Statistics, School of Science, King Mongkut's Institute of Technology Ladkrabang, Thailand; <sup>3</sup> School of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand) (A-015)
17.20 – 17.30	Poster by <b>Kanogkan Leerojanaprapa</b> <b>“Optimal conditions for inhibition of <i>Aspergillus flavus</i> IMI 242684 by sweet acacia essential oils”</b> by Pawarisa Prasutsaengchan <sup>1</sup> , Supaporn Panjarern <sup>1</sup> , Anchisa Muaymhan <sup>1</sup> , <b>Kanogkan Leerojanaprapa</b> <sup>2</sup> , Dusanee Thanaboripat <sup>1</sup> , and Sittichai Charoensettasilp <sup>2</sup> ( <sup>1</sup> Department of Biology, School of Science, King Mongkut's Institute of Technology Ladkrabang, Thailand; <sup>2</sup> Department of Statistics, School of Science, King Mongkut's Institute of Technology Ladkrabang, Thailand; <sup>3</sup> School of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand) (A-016)



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17.30 – 17.40	Poster by <b>Somchai Seviset</b> <b>“Factors affecting mechanical properties of thinning teak plantation”</b> <b>Somchai Seviset</b> <sup>1</sup> , Dusanee Thanaboripat <sup>2</sup> , and Sittichai Charoensettasilp <sup>3</sup> <sup>1</sup> Department of Biology, School of Industrial Education and Technology, King Mongkut's Institute of Technology Ladkrabang, Thailand; <sup>2</sup> Department of Biology, School of Science, King Mongkut's Institute of Technology Ladkrabang, Thailand; <sup>3</sup> Department of Statistics, School of Science, King Mongkut's Institute of Technology Ladkrabang, Thailand) (A-017)
17.40 – 17.50	Poster by <b>Montinee Teerarak</b> <b>„The effect of natural herbicide from <i>Fusarium equiseti</i> crude extract on water hyacinth (<i>Eichornia crassipes</i> (Mart.) Solms) aquatic weed”</b> <b>Montinee Teerarak</b> , Naphat Somala, and Chamroon Laosinwattana (School of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand) (A-024)
<b>Day 2: September 8, 2023</b>	
<b>Session III</b> 9.00 – 10.40 Chairperson: Asst. Prof. Dr. Karn Wongsariya and Dr. Jatuporn Meesin	
9.00 – 9.40	Keynote speaker: <b>Cherdsak Maneeruttanarungroj</b> <b>“Green algal biotechnology: from basics to applications”</b> Department of Biology, and Bioenergy Research Unit, School of Science, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand (A-021)
9.40 – 10.10	Presentation by <b>Anna Sybilska</b> <b>“Effectiveness of the entomopathogenic fungi, <i>Beauveria bassiana</i>, in control of <i>Aculops lycopersici</i> (Acariformes: Eriophyoidea)”</b> <b>Anna Sybilska</b> , Nina Mądry, and Ewa Puchalska (Department of Plant Protection, Institute of Horticultural Sciences, Warsaw University of Life Sciences, Warsaw, Poland) (A-022)
10.10 – 10.40	Presentation by <b>Tobiasz Druciarek</b> <b>“Preventing a world without roses: The mite vector is a key to combat rose rosette disease”</b> <b>Tobiasz Druciarek</b> <sup>1,2</sup> , Mariusz Lewandowski <sup>1</sup> , and Ioannis E. Tzanetakos <sup>2</sup> <sup>1</sup> Department of Plant Protection, Institute of Horticultural Sciences, Warsaw University of Life Sciences, Warsaw, Poland; <sup>2</sup> Division of Agriculture, University of Arkansas, Fayetteville, AR, USA (A-023)
10.40 – 11.00	<b>Coffee break</b>
<b>Session IV</b> 11.00 – 12.40 Chairperson: Assoc. Prof. Dr. Apiluck Eiad-ua and Assoc. Prof. Dr. Cherdsak Maneeruttanarungroj	
11.00 – 11.40	Keynote speaker: <b>Stanisław Ignatowicz</b> <b>“Biological methods of urban pest management”</b> Department of Plant Protection, Institute of Horticultural Sciences, Warsaw University of Life Sciences, Warszawa, Poland (A-025)



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11.40 – 12.10	<p>Oral presentation by <b>Tanapoom Mounghipmalai</b>  <b>“Ovicidal activity against housefly (<i>Musca domestica</i> L.; Muscidae: Diptera) of combinations of cymbopogon citratus, <i>Eucalyptus globulus</i>, and <i>Illicium verum</i> essential oils”</b>  <b>Tanapoom Mounghipmalai</b>, Sirawut Sittichok, and Mayura Soonwera (Department of Plant Production Technology, School of agricultural technology, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand) (A-005)</p>
12.10 – 12.40	<p>Oral presentation by <b>Sirawut Sittichok</b>  <b>“Strong insecticidal potency against house fly, <i>Musca domestica</i> L. from combinations of cymbopogon citratus, <i>Illicium verum</i>, and <i>Eucalyptus globulus</i> essential oils”</b>  <b>Sirawut Sittichok</b>, Tanapoom Mounghipmalai, and Mayura Soonwera (Department of Plant Production Technology, School of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand) (A-006)</p>
12.40 – 13.50	<b>Lunch break</b>
<b>Closing Session 13:50 – 15:10</b>	
Master of Ceremony: Dr. Tobiasz Druciarek	
13.50 – 14.10	Awards ceremony for best oral and poster presentation
14.10 – 14.20	Announcement of the host for the 20 <sup>th</sup> International Symposium
14.20 – 15.10	Closing speech by Assoc. Prof. Dr. Anuwat Jangwanitlert/ Assoc. Prof. Dr. Kamronwit Thipmanee
<b>Day 3: September 9, 2023</b>	
9:45 – 13.45	<p>Guide tour – Old Town in Warsaw  The meeting with the guide is planned for 9.45 a.m. in front of the Tomb of the Unknown Soldier, located at Piłsudski Square. The tour will start with watching the changing guard of the Tomb of the Unknown Soldier, which takes place every full hour.</p>

Oral presentation – 20 min. plus 10 min. for discussion

Poster presentation – 5 min plus 5-7 min. for discussion