

The 7th International Conference on Biochemistry and Molecular Biology

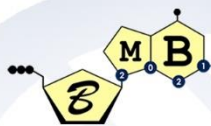
“Challenges in Biochemistry to Overcome Pandemics and Disruption”



CONFERENCE PROGRAM AT A GLANCE

Day 1: Tuesday 6 July, 2021

09.00 – 09.30	Welcome and Opening Ceremony			
	<ul style="list-style-type: none"> • BMB Thailand Video Presentation • Conference Report by Chair of Scientific Program Committee • Message from Chair of Biochemistry and Molecular Biology Section • Opening Speech: Emeritus Prof. Dr. M.R. Jisnuson Svasti • Group Photo 			
09.30 – 10.15	PL1: Plenary lecture 1			
10.15 – 10.30	Break			
	S1: BMB in Medicine		S2: Food, Biotechnology and Agricultural Biochemistry	
10.30 – 11.00	S1-K-01 Keynote lecture 1		S2-K-01 Keynote lecture 1	
11.00 – 11.15	S1-O-01		S2-O-01	
11.15 – 11.30	S1-O-02		S2-O-02	
11.30 – 11.45	S1-O-03		S2-O-03	
11.45 – 12.00	S1-O-04		S2-O-04	
12.00 – 13.00	Luncheon seminar by Merck			
	S3: Bioenergy, Environmental Science and Toxicology		S4: Frontiers in Biochemistry and Molecular Biology	
13.00 – 13.30	S3-K-01 Keynote lecture 1		S4-K-01 Keynote lecture 1	
13.30 – 13.45	S3-I-01 Invited lecture 1		S4-O-01	
13.45 – 14.00	S3-O-01		S4-O-02	
14.00 – 14.15	S3-O-02		S4-O-03	
14.15 – 14.30	S3-O-03		S4-O-04	
14.30 – 15.00	Break			
15.00 – 16.00	Poster session			
	S1: BMB in Medicine		S2: Food, Biotechnology and Agricultural Biochemistry	
	S1-1 S1-P-## (odd number)	S1-2 S1-P-## (even number)	S2-1 S2-P-## (odd number)	S2-2 S2-P-## (even number)
16.00 – 17.00	S5: BMB Education – BMB Thailand Education Consortium (Panel discussion)			



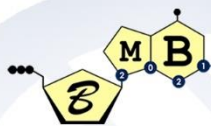
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CONFERENCE PROGRAM AT A GLANCE

Day2: Wednesday 7 July, 2021		
09.00 – 09.45	PL2: Plenary lecture 2	
09.45 – 10.30	BMB Thailand Award Ceremony/ Prof. MR JS BMB awardee Lecture	
	S1: BMB in Medicine	S2: Food, Biotechnology and Agricultural Biochemistry
10.30 – 11.00	S1-K-02 Keynote lecture 2	S2-K-02 Keynote lecture 2
11.00 – 11.15	S1-O-05	S2-O-05
11.15 – 11.30	S1-O-06	S2-O-06
11.30 – 11.45	S1-O-07	
11.30 – 12.15	Annual General Meeting, BMB-Thailand	
12.15 – 13.00	PL3: Plenary lecture 3	
	S3: Bioenergy, Environmental Science and Toxicology	S4: Frontiers in Biochemistry and Molecular Biology
13.00 – 13.30	S3-K-02 Keynote lecture 2	S4-K-02 Keynote lecture 2
13.30 – 13.45	S3-O-04	S4-O-05
13.45 – 14.00	S3-O-05	S4-O-06
14.00 – 15.00	Poster session	
	S4: Frontiers in Biochemistry and Molecular Biology	
	S4-1 S4-P-## (odd number)	S4-2 S4-P-## (even number)
15.00 – 16.00	Closing session	



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09.30 – 10.15	PL1: Plenary lecture 1 Prof. Dr. David Craik 2015 FAOBMB Awardee for Research Excellence University of Queensland, AUSTRALIA The discovery and applications of cyclotides in drug design and agriculture Chair: Emeritus Prof. Dr. Piamsook Pongsawasdi	
10.15 – 10.30	Break	
	S1: BMB in Medicine Chair: Assoc. Prof. Dr. Chanitra Thuwajit Co-chair: Asst. Prof. Dr. Suchada Phimsen	S2: Food, Biotechnology and Agricultural Biochemistry Chair: Dr. Sirawut Klinbunga Co-chair: Dr. Suriyan Cha-um
10.30 – 11.00	S1-K-01 Keynote lecture 1 Prof. Dr. Vorasuk Shotelersuk 2016 Outstanding Scientist of Thailand Chulalongkorn University, THAILAND Genomics in medicine, public health, and society	S2-K-01 Keynote lecture 1 Assoc. Prof. Dr. Joy Scaria South Dakota State University, USA Mining gut microbiota as antibiotic alternatives to treat enteric infection in poultry
11.00 – 11.15	S1-O-01 Chartinun Chutoe The effect of cannabinoid receptor agonists on breast cancer and its interaction with bone cells	S2-O-01 Benjawan Tinthip Antimicrobial activity of fermented industrial soybean waste extracts against food spoilers and foodborne pathogens
11.15 – 11.30	S1-O-02 Chi Be Hlaing Effects of iron-tanning acid nanoparticles on hepatocarcinogenesis in rats	S2-O-02 Jiralapat Thamrongwatwongsa Elevation of secondary metabolite production by using light-emitting diodes illumination in Mulberry (<i>Morus</i> spp.)
11.30 – 11.45	S1-O-03 Mayuree Poonasri 4-methoxycinnamyl p-coumarate from <i>Etilingera pavieana</i> inhibits inflammatory response via NF-κB signaling pathway in microglial cells	S2-O-03 Jongkolnee Yaowapaksophon Energy balance and biological response of dairy goats fed pomegranate seed pulp and soybean oil



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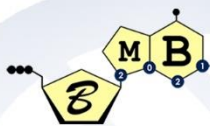
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11.45 – 12.00	S1-O-04 Warathit Semmarath Associations between frail phenotypes and inflammatory biomarkers and synergistic effects of black rice supplement and exercise intervention on physical performance, muscle strength and aging biomarkers among aging population	S2-O-04 Warumporn Yingsunthonwattana Functional characterization of Pacific white shrimp <i>Litopenaeus vannamei</i> heat shock protein 90 (LvHSP90) in response to white spot syndrome virus (WSSV) infection
12.00 – 13.00	Luncheon seminar Dr. Lee May May Merck, Ltd. Glycosylation analysis: Fast glycan release and reproducible detection A workflow analysis by fast enzymes, quality reference materials, fast spin filters and reproducible columns	
	S3: Bioenergy, Environmental Science and Toxicology Chair: Dr. Verawat Champreda Co-chair: Dr. Pattanop Kanokratana	S4: Frontiers in Biochemistry and Molecular Biology Chair: Assoc. Prof. Dr. Kiattawee Choowongkorn Co-chair: Asst. Prof. Dr. Chomdao Sinthuvanich
13.00 – 13.30	S3-K-01 Keynote lecture 1 Prof. Dr. Alisa Vangnai Chulalongkorn University, THAILAND Translational research in environmental biochemistry: From lab to implementation	S4-K-01 Keynote lecture 1 Prof. Dr. Paul Matsudaira National University of Singapore, SINGAPORE Stem cells in zebrafish intestine
13.30 – 13.45	S3-I-01 Invited lecture 1 Dr. Surisa Suwannarangsee National Center for Genetic Engineering and Biotechnology (BIOTEC), THAILAND Cell-surface engineering of <i>Saccharomyces cerevisiae</i> for cellulosic biorefinery	S4-O-01 Marutpong Detarya The O-GalNAcylating enzyme GALNT5 mediates EGFR-driven progression of CCA
13.45 – 14.00	S3-O-01 Hao Jing Elucidation of Gram-positive bacterial iron (III) reduction for kaolinite clay refinement	S4-O-02 Punnida Arjsri Anti-metastasis effects of <i>Spirogyra neglecta</i> on castration-resistant prostate cancer via the blockage of AKT signaling pathway



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Day 1: Tuesday 6 July, 2021

14.00 – 14.15	S3-O-02 Neeranuch Suwannarin Association of exposure to neonicotinoid insecticides and oxidative stress in farmworkers in Chiang Mai province, Thailand	S4-O-03 Sedthawut Laotee Production of <i>Escherichia coli</i> outer membrane vesicles displaying anti-MUC1 single chain variable fragment via SpyTag/SpyCatcher system
14.15 – 14.30	S3-O-03 Sorawit Buraphawat An investigation of subcellular localization of YISnf1p-EGFP in response to a fatty acid in <i>Yarrowia lipolytica</i>	S4-O-04 Yu Pan Engineering of human lactoferrin for improved anticancer activity
14.30 – 15.00	Break	
15.00 – 16.00	Poster session	
	S1: BMB in Medicine	S2: Food, Biotechnology and Agricultural Biochemistry
	S1-1 S1-P-## (odd number) Chair: Asst. Prof. Dr. Chalermchai Mitrpant	S1-2 S1-P-## (even number) Chair: Assoc. Prof. Dr. Sarawut Kumphune
16.00 – 17.00	S5: BMB Education – Thai BMB Thailand Education Consortium Chair: Assoc Prof. Dr. Rina Patramanon Khon Kaen University, THAILAND (Panel discussion in Thai) Panelists: Asst. Prof. Dr. Saisiri Mirasena Naresuan University, THAILAND Assoc. Prof. Dr. Sasimanas Unajak Kasetsart University, THAILAND Assoc. Prof. Dr. Tanakarn Monshupanee Chulalongkorn University, THAILAND Assoc. Prof. Dr. Nuttee Suree Chiang Mai University, THAILAND	



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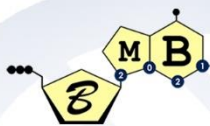
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Day2: Wednesday 7 July, 2021

09.00 – 09.45	PL2: Plenary lecture 2 Prof. Dr. Kiat Ruxrungtham Chulalongkorn University, THAILAND Covid-19 mRNA Vaccine Development Chair: Assoc. Prof. Dr. Tuangporn Suthiphongchai	
09.45 – 10.30	BMB Thailand Award Ceremony/ Prof. MR JS BMB awardee Lecture Prof. Dr. Pithi Chanvorachote Chulalongkorn University, THAILAND Targeting proteins for lung cancer treatment and cancer stem cell control Chair: Prof. Dr. Anchalee Tassanakajon	
	S1: BMB in Medicine Chair: Assoc. Prof. Dr. Kulthida Vaeteewoottacharn Co-chair: Asst. Prof. Dr. Patompon Wongtrakoongate	S2: Food, Biotechnology and Agricultural Biochemistry Chair: Dr. Sittiruk Roytrakul Co-chair: Assoc. Prof. Dr. Gunnaporn Suriyaphol
10.30 – 11.00	S1-K-02 Keynote lecture 2 Prof. Carlito B. Lebrilla University of California, Davis, USA Glycosylation changes in cancer	S2-K-02 Keynote lecture 2 Dr. Wonnop Visessanguan National Center for Genetic Engineering and Biotechnology (BIOTEC), THAILAND Development of natural antimicrobials for food and feed applications: From screening to practical applications
11.00 – 11.15	S1-O-05 Peerut Chienwichai Elucidation of rabies virus pathogenesis from clinical canine brain using proteomic approach	S2-O-05 Alisa Nira Disruption of URA3 gene in thermotolerant natural yeast by CRISPR/Cas9 technology
11.15 – 11.30	S1-O-06 Ho Chun Loong Engineering microbes for various medical applications	S2-O-06 Widya Fajariani OsGTL1 promoter editing using CRISPR/Cas9 in rice <i>Oryza sativa</i> L.
11.30 – 11.45	S1-O-07 Purithat Rattajak Effect of L-quebrachitol on osteoclastogenesis	
11.30 – 12.15	Annual General Meeting, BMB-Thailand	



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12.15 – 13.00	PL3: Plenary lecture 3 Prof. Dr. Xiao-Yun Lu 2019 FAOBMB Education Awardee Xi'an Jiaotong University, CHINA Improving students' metacognitive ability in professional course learning Chair: Prof. Dr. Tavan Janvilisri	
	S3: Bioenergy, Environmental Science and Toxicology Chair: Dr. Verawat Champreda Co-chair: Dr. Pattanop Kanokratana	S4: Frontiers in Biochemistry and Molecular Biology Chair: Assoc. Prof. Dr. Kiattawee Choowongkomon Co-chair: Asst. Prof. Dr. Chomdao Sinthuvanich
13.00 – 13.30	S3-K-02 Keynote lecture 2 Dr. Tatiana Soares da Costa 2018 FAOBMB Young Scientist Award La Trobe University, AUSTRALIA Towards novel herbicide modes of action by inhibiting lysine biosynthesis in plants	S4-K-02 Keynote lecture 2 Assoc. Prof. Dr. Varodom Charoensawan 2018 FAOBMB Young Scientist Awardee Mahidol University, THAILAND Gene expression and beyond: From single-cell biology to human cell atlas
13.30 – 13.45	S3-O-04 Guo Huina Effect of cooking on phytochemical effect of cooking on phytochemical contents and chemopreventive activities of glutinous purple rice	S4-O-05 Nang Lae Lae Phoo Transcriptomic profiling of cisplatin resistance signet ring gastric carcinoma cell line
13.45 – 14.00	S3-O-05 Kanyapak Kohsuwan Preliminary study of urinary biomarker, miR-21, for kidney injury detection	S4-O-06 Orasa Panawan Cell line-derived cancer stem-like cell: A useful tool for understanding cholangiocarcinoma
14.00 – 15.00	Poster session	
	S4: Frontiers in Biochemistry and Molecular Biology	
	S4-1 S4-P-## (odd number) Chair: Assoc. Prof. Dr. Sarawut Kumphune	S4-2 S4-P-## (even number) Chair: Asst. Prof. Dr. Songklod Sarapusit
15.00 – 16.00	Closing session	