



The 9th International Conference on Biochemistry and Molecular Biology (BMB 2025)

BMB 360°: Emerging Trends in Biochemistry & Molecular Biology Research

Poster Session

Venue: Rajmontien 4 at Montien Hotel Surawong Bangkok

Wednesday (May 14, 2025): 3.00-5.00 PM

Poster ID	Research Field
P-001 to P-010	Biomedical Sciences-Medical Biochemistry
P-011 to P-021	Biomedical Sciences-Cancer Biology
P-022 to P-031	Biomedical Sciences-Cancer Treatment
P-032 to P-041	Biotechnology-Applied Biochemistry
P-042 to P-052	Biotechnology-Applied Microbiology

Thursday (May 15, 2025): 3.00-5.00 PM

Poster ID	Research Field
P-053 to P-062	Molecular Biology-Immune & Cellular Response
P-063 to P-073	Molecular Detection & Classification of Microbes
P-074 to P-083	Molecular Biology-Antimicrobial Research
P-084 to P-094	Animal & Veterinary Sciences
P-095 to P-105	Plant & Agricultural Sciences

Poster Session 1: Biomedical Sciences-Medical Biochemistry

Date: 14 May 2025

Poster ID	Title	Presenter
P-001	Distinct Gut Microbial Signature and Host Genetic Variants in Association with Liver Fibrosis Severity in Patients with MASLD	Nantawat Sathawiwat
P-002	Effects of Hemp (<i>Cannabis sativa</i> L. subsp. <i>sativa</i>) Seed Oil on Cell Viability and Alkaline Phosphatase Activity in Human Osteoblast (hFOB 1.19) Cells	Sasithorn Chiangphookor
P-003	Efficacy and Mechanisms of Thai Herbal Extract in Regulating Glycemia: Implications for Diabetes Management	Natthaphorn Payarach
P-004	Evaluating the Expression of Senescence-Associated Secretory Phenotype of Senescent Human Fibroblast Treated with <i>Nervilia plicata</i> Extract	Tran Nguyen
P-005	Impact of Anticoagulants, Temperature, and Storage Duration on G6PD Activity Measurement Using Automated Enzymatic UV Assay	Yosita Umphanthong
P-006	Inhibitory Effects of Sulconazole Mononitrate Drug on Murine 3T3-L1 Adipocyte Differentiation	Supapit Leelasakulchai
P-007	Investigation of Anti-Adipogenic Activity of Erianin in 3T3-L1 Adipocytes	Hataichanok Yimpreeda
P-008	Investigation of Bioactive Metabolites from <i>Terminalia chebula</i> Extracts using an LC-MS Metabolomics Approach	Chadapohn Panplu
P-009	Peritoneal Dialysis-Associated Peritonitis due to <i>Arthrocladium tropicale</i>	Thunvarat Saejew
P-010	ZNF469 Promotes Extracellular Matrix Production in Normal and Keloid Dermal Fibroblasts	Denita Charoenthanakitkul

Poster Session 2: Biomedical Sciences-Cancer Biology

Date: 14 May 2025

Poster ID	Title	Presenter
P-011	A Potential Role for Arachidin in the Prevention of Inflammation Induced-Cholangiocarcinoma	Piyathida Wongkham
P-012	Generation of Circadian Clock Gene Reporter in Glioblastoma Cell Lines	Apichaya Choosuk
P-013	Identification of ncRNA-Encoded Peptides Implicated in Cancer Using RNA-Seq Data	Sandeep Mallya
P-014	Palmitic Acid Reduces LDLR-Dependent Uptake of Macrophage-Derived Extracellular Vesicles by Hepatoma Cells	Bootsakorn Boonkaew
P-015	Role of mTORC2 in the Regulation of Glycolytic Metabolism in Glioblastoma through PKC-Delta Phosphorylation	Chatchapon Chuenjit
P-016	Roles of mTOR Complex 2 in Canonical Wnt Signaling in Glioblastoma	Tankun Banlue
P-017	The Effects of Cigarette Carcinogens on APOBEC3 Activation in Bladder Cancer	Kittipong Prajanpol
P-018	The Prognostic Impact of Various Circulating Cytokine Levels on Response to EGFR-TKIs Treatment in Advanced NSCLC Patients	Warissara Khuntharuks
P-019	The Roles of mTOR Complex 2 in Lipid Metabolism of Brain Cancer Cell Lines	Nuanwan Songcharoen
P-020	Suppression of Nectin-2 Induced Early Apoptosis in MDA-MB-468 Triple-Negative Breast Cancer Cell Line	Pattaratorn Muangtate
P-021	Unraveling The Role of Long Non-Coding RNA TUG1 In Hepatocellular Carcinoma via Transcriptomic Analysis	Thammachanok Boonto

Poster Session 3: Biomedical Sciences-Cancer Treatment

Date: 14 May 2025

Poster ID	Title	Presenter
P-022	Analysis of Antibacterial Activity and Cytotoxicity in Fermented Soybeans Under Varied Conditions Against Hepatocellular Carcinoma Cell Lines	Thanawin Kimsritun
P-023	Anthraquinones from <i>Morinda scabrida</i> Roots Inhibit A549 Lung Cancer Cell Proliferation and Tubulin Polymerization	Lukana Ngiwsara
P-024	Anti-Cancer Activity of Melittin Derived from <i>Apis mellifera</i> and <i>Apis florea</i>	Aussara Panya
P-025	Artificial Intelligence-Driven Discovery of Novel Polo-like Kinase 1 Inhibitors for Cholangiocarcinoma	Kyaw Zwar Myint
P-026	Compound M and Its Derivatives Demonstrated Cytostatic and Cytotoxic Effects on Hela Cervical Carcinoma Cells	Siriporn Keeratichamroen
P-027	Discovery of Acryloylated Flavonoids against Non-small Cell Lung Cancer (NSCLC) Targeting EGFR T790M/L858R	Nopawit Khamto
P-028	<i>In Vitro</i> and <i>In Vivo</i> Analysis of Thai Traditional Formularies Medicine Treatment Against Breast Cancer	Pavit Klomkliew
P-029	Revealing the Tumor-Suppressive Potential of ZO-1 Overexpression in Transgenic Mouse Models	Hee-Jae Cha
P-030	Targeting G6PD with miR-211-5p: A Novel Approach to Inhibit Lung Cancer Progression	Phatchayanat Tansakul
P-031	Vulnerability of Multidrug Resistant Lung Cancer Cells to an Aldehyde Dehydrogenase Inhibitor DEAB	Kriengsak Lirdprapamongkol

Poster Session 4: Biotechnology-Applied Biochemistry

Date: 14 May 2025

Poster ID	Title	Presenter
P-032	A Future Medical Food: Isolation and Characterization of Mammary Epithelium Cell from Goat Milk	Wansuk Suwanphaet
P-033	Cloning, Expression, and Characterisation of Disproportionating Enzyme 1 from Durian <i>Durio zibethinus</i> Pulp	Pawinee Panpetch
P-034	Effect of Ferrosatin-1, Cystine, and Cell-Derived Factors on Osteoblast and Endothelial Cell Viability under Iron Overload	Ploypapus Lapatkeattisukul
P-035	Evaluating DNA Quality and Quantification with Qubit Nanodrop and Gel Electrophoresis	Gina Vongthongsri
P-036	Evaluation of Plasma Extraction Methods for Reliable Metabolite Quantification in ¹ H-NMR Metabolomics	Preeyakan Maikrong
P-037	Formate Dehydrogenase and Its Application for Turning Carbon Dioxide Greenhouse Gas to Valuable Chemical Feedstock	Thunchanok Wilasri
P-038	Keratin Hydrolysate from Chicken Feather using Alkaline-Enzyme Hydrolysis	Krit Tantanarat
P-039	Preparation and Characterization of Cross-Linked Enzyme Aggregates (CLEAs) of an Oligosaccharide-Producing Levansucrase (OPL)	Kritkamon Budsabong
P-040	The Catalytic Efficiency of Peroxidase-Mimicking G-Quadruplex/Hemin DNAzyme When using ABTS vs. TMB as a Substrate	Anuttara Udomprasert
P-041	The Production of Recombinant Amyloid Beta (rA β) and the Effect of Exosome from Stem Cell Human Exfoliated Deciduous Teeth (SHED) on Anti A β Aggregation Activity	Panadda Jongtep

Poster Session 5: Biotechnology-Applied Microbiology

Date: 14 May 2025

Poster ID	Title	Presenter
P-042	Biodegradable Chitosan Coating Gel from <i>Agaricus bisporus</i> : A Natural Alternative to Chemical Preservatives	Kulanatta Wisukhowong
P-043	Cloning, Characterization and Computational Design of Carboxylesterase from <i>Bacillus Subtilis</i> HM7	Thanapat Inta
P-044	Construction of Plasmids to Express Structural and Non-Structural Proteins from Multiple Lineages of Chikungunya Virus	Jiratchaya Charoenkul
P-045	Exploring Cellulase-Producing Bacteria from Cow Manure: A Sustainable Approach for Cellulose Waste Management	Sucharat Sanongkiet
P-046	Exploring New 4- α -Glucanotransferase (4 α -GTase) from <i>Roseateles terrae</i> HL11 and Its Potential Application on Starch Modification	Hataikarn Lekakarn (Watcharapong Sungsud)
P-047	Expression and Characterization of Pullulanase from <i>Bacillus subtilis</i> HM7	Karan Wangpaiboon
P-048	Extraction of Pyocyanin Pigment from Naturally Isolated <i>Pseudomonas aeruginosa</i>	Kittiya Pannin
P-049	Genetically Surface-Modified <i>Escherichia coli</i> Outer Membrane Vesicles Targeting Cancer-Specific Antigen	Sedthawut Laotee
P-050	Lactic Acid Bacteria Isolated from Thai Fermented Pork, Pickled Mustard Greens and Pickled Spring Onions and Their Lifespan-Extending Potentials in <i>C. Elegans</i>	Ailada Kongjui
P-051	Novel Cold-Active Endo-Levanase from <i>Leuconostoc mesenteroides</i> BN01 (LevBN) And Its Application in Fructooligosaccharide Synthesis	Aunthica Pethaeng
P-052	Structural Annotation and Functional Characterization of Alpha-Type Carbonic Anhydrase from <i>Roseateles terrae</i> HL11 for CO ₂ Capture	Kanokwan Srisampan

Poster Session 6: Molecular Biology-Immune & Cellular Response

Date: 15 May 2025

Poster ID	Title	Presenter
P-053	Comprehensive Reconstruction and Characterization of Long Non-Coding RNAs in <i>Opisthorchis viverrini</i>	Waraporn Taweessin
P-054	Immunoinformatic Profiling of AdeR Unveils Novel Diagnostic and Therapeutic Targets Against Multidrug-Resistant <i>Acinetobacter baumannii</i>	Jindaporn Deeto
P-055	Investigating the Anti-oxidant and Anti-inflammatory Activity of <i>Polygonum tomentosum</i> Willd	Gina Vongthongsri
P-056	Modulation of Anti-Inflammatory Gene Expression by <i>Wolffia globosa</i> Ethanol Extract in LPS-Stimulated RAW 264.7 Macrophages	Nisachon Janpromma
P-057	Modulation of T Cell Activation by the Novel Monoclonal Antibody CARA	Warapan Panchai
P-058	Targeting TLR4 Expression: PRP vs. FBS in Protecting UC-MSCs from Oxidative Stress-Induced Inflammation	Raudina Azzahra
P-059	TLR4 Expression and Cell Viability in LPS-Induced hUC-MSCs: A Comparison of FBS and PRP	Nashwa Nadira Wardijono
P-060	Transcriptome Analysis of Blood Monocytes Stimulated with Dengue Virus Nonstructural Protein 1	Khwanhao Saisingha
P-061	Uncovering Anti-inflammatory Markers in Tempeh using LC-MS/MS-Based Metabolomics	Nurkhalida Kamal
P-062	Unraveling the role of type I interferon in dengue virus infection of human monocyte U937 cells	Thanawat Khamdamrongkiat

Poster Session 7: Molecular Detection & Classification of Microbes

Date: 15 May 2025

Poster ID	Title	Presenter
P-063	An Improved Alphacoronavirus Enrichment Probe Set	Weenassarin Ampoot
P-064	Bacterial Identification based on partial 16S rDNA Amplicon Sequencing from Biofilms in Hemodialysis Catheter of Patients with Chronic Kidney Disease (CKD)	Suthida Visedthorn
P-065	CRISPR-Cas12a-based detection and differentiation of <i>Mycobacterium</i> spp.	Peeraphan Compiro
P-066	Detection of Respiratory Syncytial Virus Based on RT-RPA and CRISPR-Cas12a	Juthamas Nimnual
P-067	Development of Chikungunya Virus Detection by CRISPR-Cas12a-based Detection	Thornleaksme Lorn
P-068	Effect of Different DNA Polymerases on 16S rDNA Amplification for Gut Microbiota Classification	Benya Chalvanitsut
P-069	Efficient DNA Transfer from Gram-Negative Bacteria <i>Escherichia coli</i> to Gram-Positive Bacteria <i>Bacillus subtilis</i>	Supanida Chuenam
P-070	Functional Analysis of Chikungunya Virus Replication using Reverse Genetics	Nathaphon Khamthani
P-071	Fungal Classification Profile in Peritoneal Dialysis of Peritonitis Patients based on ITS2 Amplicon Sequencing	Prangwalai Chancham
P-072	Nanopore-Based Clinical Metagenomics of Bacterial and Fungal Microbiota in Sputum from Tuberculosis-Suspected Patients	Pawarisa Terbtthakun
P-073	Optimization of Rapid RT-RPA with CRISPR-Cas12a Assay for Avian Paramyxovirus Serotype 1 Detection	Ariya Khamwut

Poster Session 8: Molecular Biology-Antimicrobial Research

Date: 15 May 2025

Poster ID	Title	Presenter
P-074	A Molecular Strategy Against Superbugs: Photodynamic Nanomaterials for Antibacterial Action in Alkaline Environments	Yi Cheng Ho
P-075	Active Site Residues of Dengue NS5 Guanylyltransferase	Isara Nachampa
P-076	Characterization of Actin-Like Protein Derived from Vibriophage L093	Panida Saeju
P-077	Comparative Analysis of Root-Derived Ethanolic Extracts from Tissue-Cultured vs. Wild <i>Grammatophyllum speciosum</i> : Antioxidant and Antibacterial Activities	Bhasyn Saraporn
P-078	CRISPRi-mediated Targeted Gene Knockdown in <i>Mycobacterium abscessus</i>	Azizah Fitriana Nurul Ilmi
P-079	Enhancement of the Antimicrobial Properties of KLR ₁₂ through Charge Addition and Amino Acid Rearrangement	Noppasak Rojanasheeva
P-080	Expression of a Major Facilitator Superfamily (MFS) Transporter from <i>Clostridioides difficile</i> Confers Antibiotic Resistance in <i>Lactococcus lactis</i>	Wannarat Chanket
P-081	Formulation of Phage Cocktail for the Treatment of Multidrug-Resistant Uropathogenic <i>E. coli</i> (MDR-UPEC)	Patiphan Khunti
P-082	Physical and Antibacterial Properties of ZnO Particles Prepared via Green Synthesis from <i>Xanthium strumarium</i> Extracts	Jantima Kumtae
P-083	The Impact of Phage Infection on the Morphological Characteristics of <i>Acinetobacter baumannii</i>	Filosofia Florista Tesla Aulia Prasasti

Poster Session 9: **Animal & Veterinary Sciences**

Date: 15 May 2025

Poster ID	Title	Presenter
P-084	Anti-Diabetic Potential of Perilla Seed Residue in High-Fat Diet and Streptozotocin-Induced Diabetic Rats: Effects on Gut Microbiota	Teera Chewonarin
P-085	Exploring the Skin Bacteria of Alopecic Cynomolgus Macaques (<i>Macaca fascicularis</i>) based on Oxford Nanopore Technologies	Natthanit Phokkhasub
P-086	Expression of ADAR in Shrimp <i>Penaeus vannamei</i> and Its Knockdown Effects on Lysozyme Expression during White Spot Syndrome Virus Infection	Natthakit Sawang-arom
P-087	Hair Corticosterone Levels and Behavioral Responses in BALB/c Mice Infected with <i>Angiostrongylus cantonensis</i>	Supakit Tongpon
P-088	Identification of Candidate MicroRNAs Associated with Tuberculosis in Thai Cynomolgus Macaques (<i>Macaca fascicularis</i>)	Nutvara Phoyoo
P-089	<i>In Silico</i> and <i>In Vivo</i> Evaluation of Wound Healing Effect of Melatonin on Cutaneous Wound in Zebrafish (<i>Danio rerio</i>)	Cassandra Isabela Aquino
P-090	Microbial Community Analysis in Gut of Sandfish (<i>Holothuria scabra</i>): A Comparison of Pond and Concrete Tank Cultivation	Nittaya Jaeram
P-091	MiRNA Regulation of the JAK/PI3K/AKT Pathway in White Spot Syndrome Virus-Infected Shrimp: A Computational and Expression Analysis	Waqar Ahmad
P-092	Oral-Fecal Bacterial Microbiota Associated with Diarrhea in Common Marmoset (<i>Callithrix jacchus</i>)	Chainarong Bunma
P-093	Profile and Sharing of the Microbiome between Mealybugs (Pseudococcidae) and Their Symbiotic Ants (Formicidae) in Southern Taiwan	Apriza Hongko Putra
P-094	The Effect of <i>Centella asiatica</i> on GSH, MDA, and Carbonyl Levels in the Brains of Rats Across Different Ages	Darren Alfonsus Wanri

Poster Session 10: Plant & Agricultural Sciences

Date: 15 May 2025

Poster ID	Title	Presenter
P-095	A Pilot Study on the Antioxidant Activities of Fresh and Processed Papaya Leaves	Nalinrat Puangnil
P-096	Degradation of MYB52 Through CRL E3 Ligase with BPM Proteins as an Adaptor in <i>Arabidopsis</i>	Chayaton Sachiyo
P-097	Enhancing Plant Growth and Bioactive Compound Production using Anaerobic Co-Digestate Liquid and a Novel Indole-3-Acetic Acid-Producing Bacterium	Thanyaporn Wongnate
P-098	Evaluation of Bioactive Components, Antioxidant, Anti-inflammatory, Anti-glycation and Protein Fibril Inhibitory Properties of <i>Asystasia gangetica</i> (Chinese Violet) Phenolic-Rich Extract	Fredrick Nwude Eze
P-099	Fabrication and Characterization of Hydrogel Films Blended with <i>Chromolaena odorata</i> Leaf Extract and Their Antioxidant Properties	Weeraya Phupiewkham
P-100	MADS-Box Transcription Factors and Carotenoid Metabolism in Durian Fruit Pulp	Kittiya Tantisuwanichkul
P-101	Multi-Omics Study on the Effects of Plant Elicitors, Chitin and Chitosan, on the Root System of Industrial Hemp (<i>Cannabis sativa</i>)	Pipob Suwanchaikasem
P-102	Stability and Compatibility of <i>Pandanus tectorius</i> Methanolic Extract for Diuretic Formulation	Gelynn Mae S. Dalumpines
P-103	Preformulation and Stability Evaluation of <i>Basella alba</i> Ethanolic Extract Jelly as a Potential Adjunct for Constipation Relief	Chelsea Heart M. Alcantara
P-104	Natural Melanogenesis Inhibitor: Preformulation and <i>In Vivo</i> Assessment of <i>Swietenia macrophylla</i> Ethanolic Seed Extract	Marielle Jazmin Sebastian
P-105	Volatilomics of Six Mango Cultivars (<i>Mangifera indica</i> L.) Cultivated in Thailand	Tith Sopheak