

Conference Program

July 7, 2025	
9.30 ~	Registration
11.00 – 12.00	PST Annual Meeting
12.00 – 13.00	Luncheon Symposium (Hosted by SCIEX)
13.00 – 13.30	Opening Ceremony
13.30 – 14.15	Plenary lecture: Prof. Carlito B. Lebrilla, <i>University of California-Davis, USA</i> <i>“Methods to characterize and alter glycosylation on cell membrane and their effects on membrane protein-protein interactions”</i> Chair: Assoc. Prof. Atit Silsirivanit
14.15 – 15.30	Coffee Break and <i>Poster Session (Odd number)</i>
<u>Session 1: Biomedical Applications of Proteomics</u> Chair: Assoc. Prof. Onrapak Reamtong and Dr. Sittiruk Roytrakul	
15.30 – 16.00	Invited lecture 1: Assoc. Prof. Onrapak Reamtong, <i>Mahidol University</i> <i>“Targeting Focal Adhesion Kinase in Schistosoma mekongi: A Phosphoproteomic and Kinomic Approach for Novel Anti-Schistosomal Therapies”</i>
16.00 - 16:30	Invited lecture 2: Dr. Orasa Panawan, <i>Khon Kaen University</i> <i>“Integrated Multi-Omics Profiling Reveals Cholesterol-Lipid Metabolism as a Key Target for Glioma Stem Cells”</i>
16:30 - 16:45	Oral presentation 1: Chris Verathamjamras, <i>Prince of Songkla University</i> <i>“Phosphoproteomics of Plasma-Derived Small Extracellular Vesicles Revealed a Potential Biomarker for Precancerous CRC Screening”</i>
16:45 – 17.00	Oral presentation 2: Dr. Pipob Suwanchaikasem, <i>Baiya Phytopharm</i> <i>“A Benefit of LC-MS Analysis with Proteomics Integration Toward Recombinant Protein Production at Baiya Phytopharm”</i>
18.00 – 20.00	Welcome Reception for All Participants

July 8, 2025	
8.30 ~	Registration
<u>Session 2: Biomedical Application of Proteins</u>	
Chair: Assoc. Prof. Sakawrat Kanthawong and Assoc. Prof. Supranee Phantanawiboon	
9.00 – 9.30	Invited lecture 3: Assoc. Prof. Sakawrat Kanthawong, <i>Khon Kaen University</i> “ <i>In Silico Design and Development of Novel Antimicrobial Peptides Targeting Antibiotic-Resistant Bacteria</i> ”
9.30 – 10.00	Invited lecture 4: Asst. Prof. Ching-Wen Chang, <i>Taipei Medical University, Taiwan</i> “ <i>Genetic Contributions to Fatty Liver Disease–Related Liver Cancer</i> ”
10.00 – 10.15	Oral presentation 3: Dr. Thanalai Poonsiri, <i>Mahidol University</i> “ <i>Structural and Functional Characterization of SidF, a Dual-Substrate Transacetylase Central to Siderophore Biosynthesis in Aspergillus fumigatus</i> ”
10.15 – 10.30	Oral presentation 4: Athipat Wangbunkong, <i>Walailak University</i> “ <i>Specificity Prediction of Medicinal Plant Bioactive Compounds Towards Topoisomerase Enzymes by In Silico Molecular Modeling</i> ”
10.30 – 10.45	Coffee Break
<u>Session 3: Protein in Glycobiology</u>	
Chair: Dr. Vorrarat Champattanchai and Prof. Hyun-Joo An	
10.45 – 11.15	Invited lecture 5: Prof. Hyun-Joo An, <i>Chungnam National University, Korea</i> “ <i>Glycoproteomic Insights into Schizophrenia: Site-Specific N-Glycan Changes in PLCβ1 Knockout Mice</i> ”
11.15 – 11.30	Oral presentation 5: Karuntarat Teeravirote, <i>Khon Kaen University</i> “ <i>Glycomic and Glycoproteomic Analysis Suggests the Role of O-Glycan Truncation in Promoting Melanogenesis via ER Stress</i> ”
11.30 – 11.45	Oral presentation 6: Asst. Prof. Sakonwan Kuhadomlarp, <i>Mahidol University</i> “ <i>Lectins as new biologics for combating viral diseases</i> ”
11.45 – 12.00	Oral presentation 7: Dr. Sunaree Chonud, <i>Suranaree University of Technology</i> “ <i>Structural Analysis of a Plant GH116 Glucosyl Ceramidase from Arabidopsis Thaliana by Cryogenic Electron Microscopy (Cryo-EM)</i> ”
12.00 – 13.00	Luncheon Symposium (Hosted by Bang Trading 1992 Co., Ltd.)
<u>Session 4: Protein and Extracellular Vesicle</u>	
Chair: Assoc. Prof. Arthit Chairoungdua and Assoc. Prof. Sarawut Kumphune	
13.00 – 13.30	Invited lecture 6: Assoc. Prof. Arthit Chairoungdua, <i>Mahidol University</i> “ <i>Nature Nanocarriers: Unlocking the Power of Plant Vesicles</i> ”
13.30 – 14.00	Invited lecture 7: Assoc. Prof. Sarawut Kumphune, <i>Chiangmai University</i> “ <i>Challenge of Small Extracellular Vesicles in Delivery of Cardioprotective Biomolecules</i> ”

14.00 – 14.30	Invited lecture 8: Assoc. Prof. Raphatphorn Navakanitworakul, <i>Prince of Songkla University</i> <i>“Extracellular Vesicles in Cancer Research”</i>
14.30 – 15.30	Coffee Break and <i>Poster session (Even number)</i>
<u>Session 5: Various Aspects of Protein Research</u> Chair: Assoc. Prof. Danaya Pakotiprapha and Assoc. Prof. Kanlayanee Sawanyawisuth	
15.30 – 16.00	Oral presentation 8: Assoc. Prof. Sittinan Chanarat, <i>Mahidol University</i> <i>“The Intrinsically Disordered N-Terminus of Cryptococcus neoformans Hub1 Mediates Liquid-liquid Phase Separation and Nuclear Speckle Localization”</i>
16.00 – 16.30	Oral presentation 9: Asst. Prof. Thanyaporn Wongnate, <i>VISTEC</i> <i>“Biocatalytic Enhancement of Biofuel Production Using Aldehyde Deformylating Oxygenase”</i>
16.30 – 16.45	Oral presentation 10: Dr. Suyanee Thongchote, <i>Mahidol University</i> <i>“Generation of dual BIspecific Protein Engagers targeting Mesothelin and NECTIN2 for activation of cytotoxic T-lymphocytes against colorectal cancer cells”</i>
16.45 – 17.00	Oral presentation 11: Saharat Nanthawong, <i>Chulalongkorn University</i> <i>“Cost-Effective and Efficient Peptide Fractionation: A Comparative Study of In-House High-pH STAGE-Tips and Commercial Kit Approaches for Proteomic Applications”</i>
18.00 – 20.00	Invited Dinner (Hosted by SCIEX)

July 9, 2025	
8.30 ~	Registration
<u>Session 6: Proteins in Cancer Research</u>	
<i>Chair: Assoc. Prof. Ching-Feng Chiu and Assoc. Prof. Charupong Saengboonmee</i>	
9.00 – 9.30	Invited lecture 9: Assoc. Prof. Ching-Feng Chiu, <i>Taipei Medical University, Taiwan</i> <i>“Phosphorylation of Dicer at Distinct Sites Drives Gemcitabine Resistance in Pancreatic Cancer via Glutamine Metabolism”</i>
9.30 – 10.00	Invited lecture 10: Assoc. Prof. Worasak Kaewkong, <i>Naresuan University</i> <i>“Targeting Alternative Splicing for Alternative Anticancer Strategy: Insights into Splicing Errors, Splicing Factors and Splicing Kinases”</i>
10.00 – 10.30	Invited lecture 11: Asst. Prof. Naisana Seyedasli, <i>The University of Sydney, Australia</i> <i>“Mechanisms of Treatment Resistance in Epithelial Carcinoma: Lessons from Single Cell Analyses and 3D Cancer Models.”</i>
10.30 – 10.45	Coffee Break
<u>Session 7: Proteins in Biomedicine</u>	
<i>Chair: Assoc. Prof. Kulthida Vaeteewoottacharn and Assoc. Prof. Nisachon Jangpromma</i>	
10.45 – 11.15	Invited lecture 12: Assoc. Prof. Nisachon Jangpromma, <i>Khon Kaen University</i> <i>“Discovery, Functional Characterization, and Therapeutic Potential of Bioactive Peptides from Animal and Plant Sources”</i>
11.15 – 11.45	Invited lecture 13: Dr. Chukkris Heawchaiyaphum, <i>Khon Kaen University</i> <i>“Proteomic Profiling Reveals Andrographolide as a Dual-Action Agent Against Epstein-Barr Virus Reactivation and Tumor Cell Survival”</i>
11.45 – 12.00	Oral presentation 12: Dr. Penchatr Diskul Na Ayudthaya, <i>Chulabhorn Research Institute</i> <i>“CARP Mediates Breast Cancer Metastasis Through the Regulation of NF-κB-MAGE-A6”</i>
12.00 – 13.00	Luncheon Symposium (Hosted by SciSpec Co., Ltd.)
<u>Session 8: AI and Computational Biology for Protein Research</u>	
<i>Chair: Assoc. Prof. Wunchana Suebwai and Asst. Prof. Duangrudee Tanramluk</i>	
13.00 – 13.30	Invited lecture 14: Asst. Prof. Duangrudee Tanramluk, <i>Mahidol University</i> <i>“MANORAA.ai as a Co-Scientist for Drug Discovery and Protein Engineering”</i>
13.30 – 14.00	Invited lecture 15: Asst. Prof. Tarapong Srisongkram, <i>Khon Kaen University</i> <i>“Learning to Learn: Advancing Molecular Property Prediction with Stacking Ensemble Learning”</i>
14.00 – 14.30	Invited lecture 16: Asst. Prof. Kamonpan Sanachai, <i>Khon Kaen University</i> <i>“Mechanistic Insights into Enzyme Inhibition for the Management of Diseases”</i>

14.30 – 14.45	Coffee Break
<u>Session 9: PST Outstanding Scientist Award</u> <i>Chair: Prof. James R. Ketudat-Cairns</i>	
14.45 - 15.30	PST Outstanding Scientist Award Ceremony
	PST Awardee Lecture: Prof. Somchai Pinlaor, <i>Khon Kaen University</i> <i>“From Lab to Life: My Journey in Protein Research and Societal Impact”</i>
15.30 – 16.30	Presentation Awards & Closing Remarks