

SYMPOSIUM PROGRAM

The 20th International Symposium of the Protein Society of Thailand (PST2026)
5-7 August 2026 | Mandarin Hotel Bangkok, Thailand

Program at a Glance

Day	Morning Focus	Afternoon Focus	Special Activities
Day 1 5 Aug 2026	Immunopeptidomics for Cancer Immunotherapy	Parallel Sessions: Mandarin A: Protein Modification and Cell Signaling Mandarin B: Synthetic and Chemical Biology	Opening Ceremony Poster Session (Odd numbers) Welcome Reception
Day 2 6 Aug 2026	Protein Science for Precision Medicine and Sustainable Health	Parallel Sessions: Mandarin A: Protein Engineering and Functional Characterization Mandarin B: Computational and AI-Driven Antibody Targeting	Poster Session (Even numbers) Invited Dinner
Day 3 7 Aug 2026	Advanced Protein Technologies for Drug Discovery and Therapeutic Targeting	Awards & Closing Program	PST Meeting Outstanding Scientist Award Oral/Poster Awards & Closing Ceremony

Keynote	Invited	Oral	Sponsor	Break/Poster	Lunch	Social/Awards
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DAY 1 | Wednesday, 5 August 2026

Mandarin A Morning: Immunopeptidomics for Cancer Immunotherapy | Afternoon Parallel Sessions

Time	Morning Program
07.30 - 08.30	Registration
08:30 - 09:00	Opening Ceremony - Senior Researcher Dr. Poorichaya Somparn (PST2026 Organizing Committee Chair, Faculty of Medicine, Chulalongkorn University) - Prof. Wilert Puriwat (President of Chulalongkorn University) - Dr. Chantagan Phiphobmongkol (President, the Protein Society of Thailand) - Dr.Trairak Pisitkun (CUSB Director) Group photo
Mandarin A: Immunopeptidomics for Cancer Immunotherapy Master of Ceremonies: Asst. Prof. Jessada Salathong Chairperson: Professor (Emeritus) Dr. James Ketudat-Cairns & Dr. Michael Payne	Mandarin A: Immunopeptidomics for Cancer Immunotherapy Master of Ceremonies: Asst. Prof. Jessada Salathong Chairperson: Professor (Emeritus) Dr. James Ketudat-Cairns & Dr. Michael Payne
09.00 - 09.30 (30 min)	KEYNOTE SPEAKER Assoc. Prof Michal Bassani-Sternberg Department of oncology UNIL CHUV Ludwig Institute for Cancer Research Lausanne <i>Topic: From Discovery to Therapy: Overcoming Challenges in Neoantigen-Driven Cancer Immunotherapy</i>
09:30 – 9:55 (25min)	INVITED SPEAKER Dr. Kasidet Manakongtreecheep Harvard Medical School, Dana Farber Cancer Institute, Broad Institute of MIT <i>Topic: Sensitive direct detection of cancer antigens enabled by user-defined peptide libraries</i>
9.55 – 10:15 (20 min)	INVITED SPEAKER Senior Researcher Poorichaya Somparn Research Affairs, Faculty of Medicine, Chulalongkorn University <i>Topic: Mass Spectrometry-Based Profiling of Personalized Immunopeptidomes in Thai Renal Cell Carcinoma</i>
10:15 – 10:35 (20 min)	ORAL PRESENTATION Ms. Khin Zay Yar Myint Centre for Advanced Medical Science and Technology, Tokyo Midtown Medical Center, Japan <i>Topic: Factors associated with the survival rates of patients receiving a dendritic cell vaccine pulsed with different cancer-associated antigens: A retrospective observational study</i>
10:35 – 11:05 (30 min)	Coffee Break & Exhibition
11:05 – 11:25 (20 min)	INVITED SPEAKER Asst. Prof Sira Sriswasdi Research Affairs, Faculty of Medicine, Chulalongkorn University <i>Topic: Improving peptide-HLA immunogenicity prediction with protein structure-informed deep learning</i>

Time	Morning Program
11:25 – 11:45 (20 min)	INVITED SPEAKER Senior Researcher Parunya Chaiyawat Center of Multidisciplinary Technology for Advanced Medicine, Faculty of Medicine, Chiang Mai University <i>Topic: Neoantigen Discovery in Thailand Building a Path Toward Precision Immunotherapy</i>
11:45 – 12:05 (20 min)	Sponsored by Bang Trading.
12.05-13.30 (1.25 hr.)	Buffet Lunch

Time	Mandarin A: Protein Modification and Cell Signaling	Mandarin B: Synthetic and Chemical Biology
Parallel sessions	Mandarin A: Protein Modification and Cell signaling Master of Ceremonies: Asst. Prof. Pattarin Tangtanatakul Chairperson: Assoc. Prof. Dr. Atit Silsirivanit & Senior Research Dr. Churat Weeraphan	Mandarin B: Synthetic and Chemical Biology Master of Ceremonies: Ms. Nattavat Sukko Chairperson: Dr. Chayasith Uttamapinant & Asst. Prof. Sekkarin Ploypetch
13:30 – 13:50 (20 min)	INVITED SPEAKER Prof. Atsushi Kuno National Institute of Advanced Industrial Science and Technology (AIST), Japan <i>Topic: Lowering Barriers to Glycan Analysis: Mining Clinically High-Value Protein.</i>	INVITED SPEAKER Assoc. Prof. Sierin Lim School of Chemistry, Chemical Engineering and Biotechnology at Nanyang Technological University, Singapore (NTU). <i>Topic: Protein Materials for Human Health.</i>
13:50 – 14:10 (20 min)	INVITED SPEAKER Asst. Prof. Naphat Chantaravisoot Department of Biochemistry, Faculty of Medicine, Chulalongkorn University <i>Topic: Decoding Tumor Aggressiveness Through Phosphoproteomics: Convergent mTORC2 Signaling in Cancers</i>	INVITED SPEAKER Asst. Prof. Alisa Tubsuwan Institute of Molecular Biosciences, Mahidol University <i>Topic: Proximity Labeling Identifies HSPB1 as a Stabilizing Partner of Transferrin Receptor 2 in Erythroid Cells.</i>
14:10 – 14:30 (20 min)	ORAL PRESENTATION Dr. Jutatip Panaampon Department of Medical Oncology, Dana-Farber Cancer Institute, Boston, USA <i>Topic: DUSP2 promotes lymphomagenesis through CDK1 activation and enhanced lymphoid cell proliferation</i>	INVITED SPEAKER Prof. Atul N. Parikh School of Chemistry, Chemical Engineering and Biotechnology at Nanyang Technological University, Singapore (NTU) <i>Topic: Membrane Interactions of Protein Condensates, Aggregates, and Droplets</i>
14:30– 15:50 (1.20 hr.)	Coffee Break & Exhibition & Poster Session (Odd number)	
15:50 – 16:10 (20 min)	INVITED SPEAKER Asst. Prof. Chatchai Phoomak Department of Biology, Faculty of Science, Chulalongkorn University <i>Topic: Uncovering N-Linked Glycosylation Drivers in Lung Cancer Through Whole-Genome CRISPR-Cas9 Screening.</i>	INVITED SPEAKER Asst. Prof. Pakpoom Subsoontorn Department of Biochemistry, Faculty of Medical Science, Naresuan University <i>Topic: Systems and synthetic biology of bacterial conjugation</i>
16:10 – 16:30 (20 min)	INVITED SPEAKER Dr. Nattawadee Panyain Department of Biochemistry, Faculty of Medicine, Mahidol University <i>Topic: From Probe to Target: Chemical Proteomics Approaches for Drug Target Discovery</i>	INVITED SPEAKER Dr. Suppachai Srisantitham Department of Chemistry, Faculty of Science, Chulalongkorn University <i>Topic: De novo design of (metallo) proteins using machine-learning guided tools</i>
16:30-16:50 (20 min)	ORAL PRESENTATION Ms. Sukasem Kiatsukasem School of Biomolecular Science and Engineering, Vidyasirimedhi Institute of Science and Technology (VISTEC) <i>Topic: Tuning the efficiency of DNA amplification by dual-scaffolded catalytic condensates</i>	INVITED SPEAKER Dr. Nathchar Naowarojna Faculty of Science and Technology, Rajabhat Sakon Nakhon University <i>Topic: A Structural and Evolutionary Study on Convergently Evolved Cysteate Synthases in Sulfonolipid Biosynthesis</i>

Time	Mandarin A: Protein Modification and Cell Signaling	Mandarin B: Synthetic and Chemical Biology
16:50-17:10 (20 min)	ORAL PRESENTATION Dr. Serap Pektaş Department of Chemistry, Faculty of Arts and Sciences, Recep Tayyip Erdogan University, Turkey <i>Topic: Alternative Peptide Scaffolds for Modulation of the p53-MDM2 Axis: A Combined Computational and Cellular Study</i>	ORAL PRESENTATION Dr. Surached Siriwongsup Chemical Biology and Therapeutics Science, Broad Institute of MIT and Harvard, Cambridge, USA <i>Topic: A Scalable Design for Proximity-Inducing Molecules</i>
17:10-19:30	Welcome Reception for All Participants	

DAY 2 | Thursday, 6 August 2026

Mandarin A Morning: Protein Science for Precision Medicine and Sustainable Health | Afternoon Parallel Sessions

Time	Morning Program
07.30 - 09.00	Registration
Mandarin A: Protein Science for Precision Medicine and Sustainable Health Master of Ceremonies: Assoc. Prof. Sittiporn Pattaradilokrat Chairperson: Assoc. Prof. Kiattawee Choowongkamon & Asst. Prof. Patanachai Limpikirati	Mandarin A: Protein Science for Precision Medicine and Sustainable Health Master of Ceremonies: Assoc. Prof. Sittiporn Pattaradilokrat Chairperson: Assoc. Prof. Kiattawee Choowongkamon & Asst. Prof. Patanachai Limpikirati
09.00 - 09.30 (30 min)	KEYNOTE SPEAKER Prof. Richard Simpson La trobe University, Melbourne Australia Topic: Clinical relevance of extracellular vesicles in cancer — therapeutic and diagnostic potential
09:30 – 09:55 (25min)	INVITED SPEAKER Prof. Chun-Jung Chen National Synchrotron Radiation Research Center Hsinchu, Taiwan Topic: Structural Biology of Viruses and Capsid Assembly
9:55 – 10:15 (20 min)	INVITED SPEAKER Assoc. Prof. Varodom Charoensawan Department of Biochemistry, Faculty of Science, Mahidol University Topic: Characterisation of context-specific gene expression using multimodal transcriptomics
10:15 – 10:35 (20 min)	INVITED SPEAKER Prof. Seiji Okada Division of Hematopoiesis, Joint Research Center for Human Retrovirus Infection, Kumamoto University Topic: Construction of a Novel Format of Bispecific T-cell Engager Antibodies Utilizing Cyclic Single-chain Antibodies and Analysis of Their Antitumor Effects
10:35 – 11:20 (45 min.)	Coffee/Tea Break & Exhibition
11:20 – 11:40 (20 min)	INVITED SPEAKER Prof. Waranyoo phoolcharoen Faculty of Pharmaceutical Sciences, Chulalongkorn University Topic: Green Biomanufacturing: Plant-Produced Antibodies as Next-Generation Biologics
11:40 – 12:00 (20 min)	INVITED SPEAKER Prof. Yu-Ju Chen Institute of Chemistry, Academia Sinica, Taiwan Topic: Clinical Mass Spectrometry for Precision Oncology: From Proteome Discovery to Actionable Biomarkers

Time	Morning Program
12:00 – 12:20 (20 min)	Sponsored by P. Intertrade
12:20 – 13:30 (1.10 hr.)	Buffet Lunch

Time	Mandarin A: Protein Engineering and Functional Characterization	Mandarin B: Computational and AI-Driven Antibody Targeting
Parallel Session	Mandarin A: Protein Engineering and Functional Characterization for Diagnostics and Therapeutics Master of Ceremonies: Assoc. Prof. Sittiporn Pattaradilokrat Chairperson: Asst. Prof. Chatchai Phoomak & Dr. Nathchar Naowarojna	Mandarin B: Computational and AI-Driven Antibody Targeting and Epitope Mapping for Therapeutic Applications Master of Ceremonies: Ms. Nattavat Sukko Chairperson: Asst. Prof. Sira Sriswasdi & Senior Researcher Parunya Chaiyawat
13:30 – 13:50 (20 min)	INVITED SPEAKER Asst. Prof. Sekkarin Ploypetch Department of Clinical Sciences and Public Health, Faculty of Veterinary Science, Mahidol University <i>Topic: Salivary Omics for Precision Oncology: From Proteomic Discovery to Therapeutic Monitoring in Canine Oral Tumors</i>	INVITED SPEAKER Assoc. Prof. Duangdao Wichadakul Department of Computer Engineering, Faculty of Engineering, Chulalongkorn University <i>Topic:</i>
13:50 – 14:10 (20 min)	INVITED SPEAKER Assoc. Prof. Usa Boonyuen Faculty of Tropical Medicine, Department of Molecular Tropical Medicine and Genetics <i>Topic: Resolving functional diversity of G6PD variants: Integrating protein structure, enzymology, and translational diagnostics</i>	INVITED SPEAKER Prof. Chatchai Tayapiwatana Faculty of Associated Medical Sciences, Chiang Mai University <i>Topic: CD147 as a Target for Antibody Therapy Beyond Molecular Dynamics Simulations and AI Applications</i>
14:10 – 14:30 (20 min)	ORAL PRESENTATION Ms. Chanakan Sawangdow Department of Microbiology, Faculty of Medicine, Khon Kaen University, Khon Kaen <i>Topic: Template selection and homology modeling of the 1F11 scFv antibody for improving binding to dengue NS1 antigen</i>	ORAL PRESENTATION Ms. Rissadee Phetpradit Department of Biochemistry, Faculty of Science, Kasetsart University <i>Topic: Biochemical and Structural Characterization of GH3 β-Glucosidase AtBg13A from Acetivibrio Thermocellus</i>
14:30 – 15:50 (1.20hr)	Coffee Break & Exhibition & Poster Session (Even number)	
15:50 – 16:10 (20 min)	INVITED SPEAKER Assoc. Prof. Natapol Pornputtapong Faculty of Pharmaceutical Sciences, Chulalongkorn University <i>Topic: Artificial Intelligence Applications in Protein Design</i>	INVITED SPEAKER Asst. Prof. Patanachai Limpikirati Faculty of Pharmaceutical Sciences, Chulalongkorn University <i>Topic: Mass Spectrometry-Driven Epitope Mapping: Application of Diethylpyrocarbonate Covalent Labeling for the Immunotherapeutic Target Programmed Cell Death Protein 1</i>
16:10 – 16:30 (20 min)	ORAL PRESENTATION Asst. Prof. Litavadee Chuaboon School of Pharmacy, Walailak University, Nakhon Si Thammarat, Thailand <i>Topic: Engineered transaminase for the conversion of OPEFB waste into chiral γ-amino acid</i>	ORAL PRESENTATION Dr. Kittikhun Wangkanont Center of Excellence for Molecular Biology and Genomics of Shrimp, Department of Biochemistry, Faculty of Science, Chulalongkorn University <i>Topic: Cryogenic electron microscopy structure of the chromoprotein ovorubin</i>
16:30 - 16:50 (20 min)	INVITED SPEAKER Assoc. Prof. Panu Pimviriyakul Department of Biochemistry, Faculty of Science, Kasetsart University Topic: Engineering of Flavin-dependent enzymes for efficient catalysis	INVITED SPEAKER Assoc. Prof. Kiattawee Choowongkomon Department of Biochemistry, Faculty of Science, Kasetsart University <i>Topic: Target, Block, Detect: A Multifaceted Approach to Antibody Application in Medicine and Agriculture</i>

Time	Mandarin A: Protein Engineering and Functional Characterization	Mandarin B: Computational and AI-Driven Antibody Targeting
16:50-17:10 (20 min)	ORAL PRESENTATION Ms. Natnicha Jampavan School of Chemistry, Institute of Science, Suranaree University of Technology <i>Topic: Biochemical characterization and identification of complementarity-determining regions in the variable domain of monoclonal antibody against human CD63 clone COS3A</i>	ORAL PRESENTATION Mr. Pirm Dhararag Brandeis University <i>Topic: Generative AI-Driven Design of Dual MDM2/MDMX Inhibitory Peptides with Integrated Drug-Likeness Optimization</i>
18.30-20.00	Invited Dinner	

DAY 3 | Friday, 7 August 2026

Advanced Protein Technologies for Drug Discovery and Therapeutic Targeting | Awards & Closing Ceremony

Time	Program
07:30 – 09:00	Registration
Mandarin A : Advanced Protein Technologies for Drug Discovery and Therapeutic Targeting Master of Ceremonies: Asst. Prof. Sita Virakul & Asst. Prof. Vimvara Vacharathit Chairperson: Dr. Nattawadee Panyain & Asst. Prof. Parkpoom Subsoontorn	Mandarin A : Advanced Protein Technologies for Drug Discovery and Therapeutic Targeting Master of Ceremonies: Asst. Prof. Sita Virakul & Asst. Prof. Vimvara Vacharathit Chairperson: Dr. Nattawadee Panyain & Asst. Prof. Parkpoom Subsoontorn
09:00 – 09:30 (30 min)	KEYNOTE SPEAKER Prof. Lindsay K Pino Talus Bioscience, Inc. Washington, Seattle <i>Topic: Proteomics to Drive Drug Discovery Through Direct Measurement of Transcriptional Regulation</i>
09:30 – 9:50 (20 min)	INVITED SPEAKER Dr. Deanpen Japrun Director of Strategic Research Initiatives, National Science and Technology Development Agency (NSTDA) <i>Topic: The Single-Molecule Revolution: Decoding Protein Complexity and Sequencing with Nanopore Technology</i>
9:50 – 10:10 (20 min)	INVITED SPEAKER Prof. Siwanon Jirawatnotai Department of Pharmacology, Siriraj Hospital, Mahidol University <i>Topic: Targeting KRAS Oncogenic Addiction in Cholangiocarcinoma</i>
10:10-10:30 (20 min)	ORAL PRESENTATION Mr. Misal Rana Magar Institute of Molecular Biosciences, Mahidol University <i>Topic: Enhancing translation efficiency via combinatorial design of orthoflaviviral 5' and 3' untranslated regions</i>
10:30-10:50 (20 min)	ORAL PRESENTATION Mr. Thada Wangsahnga Department of Biology, Faculty of Science, Mahidol University <i>Topic: Phage-Encoded Lysin Motif (LysM) Depolymerase for Disrupting Clostridioides difficile Biofilms and Infections</i>
10:50-11:20 (30 min)	Coffee/Tea Break& PST meeting
11:20 -11:40 (20 min)	INVITED SPEAKER Asst. Prof. Arnatchai Maiuthed Department of Pharmacology, Faculty of Pharmacy, Mahidol University <i>Topic: Unveiling Therapeutic Targets: A Proteomic Approach to Drug Discovery</i>

Time	Program
11:40 – 12:00 (20 min)	ORAL PRESENTATION Ms. Siyaporn Putthisen Department of Biochemistry, Faculty of Medicine, Khon Kaen University, <i>Topic: Establishment of cell line -derived cancer -stem cell models for meningioma</i>
12:00 – 12:20 (20 min)	Sponsored by Sci Spec.
12.20-13.20 (1 hr.)	Buffet Lunch
Master of Ceremonies: Asst. Prof. Sita Virakul & Asst. Prof. Vimvara Vacharathit Chairperson: Dr. Suppachai Srisantitham & Assoc. Prof. Panu Pimviriyakul	Master of Ceremonies: Asst. Prof. Sita Virakul & Asst. Prof. Vimvara Vacharathit Chairperson: Dr. Suppachai Srisantitham & Assoc. Prof. Panu Pimviriyakul
13:20 – 13:40 (20 min)	INVITED SPEAKER Assoc. Prof. Vorrapon Chaikerasitsak Department of Biochemistry, Faculty of Science, Chulalongkorn University <i>Topic: Mechanism of Pre-Killing (MOK): Unlocking Phage Infection Biology for Antimicrobial Discovery</i>
13:40-14:00 (20 min)	INVITED SPEAKER Asst. Prof. Puey Ounjai Department of Biology, Faculty of Science, Mahidol University <i>Topic: Cryo-EM and the New Era of Structural Biology</i>
14:00 – 14:45 (45 min)	Coffee/Tea Break & Exhibition
14:45-15:00	PST Outstanding Scientist Award Chair: Professor (Emeritus) Dr. James Ketudat-Cairns
15:00 – 15:20 (20 min)	PST Outstanding Scientist Award Ceremony Asst. Prof. Panupong Mahalapbutr Department of Biochemistry, Faculty of Medicine, Khon Kaen University Topic: Computer-Aided Discovery and Development of Targeted Inhibitors and Peptides for Biomedical Applications
15:20 - 15:40 (20 min)	PST Outstanding Scientist Award Ceremony Dr. Nopphon Weeranoppanant Department of Chemical Engineering, Faculty of Engineering, Chulalongkorn University Topic: From Proteins to Processes: Reaction Engineering of Intensified Biocatalytic Systems
15:40 – 16:30	Oral award/Poster award / Closing ceremony PST2026 Announcement