

SYMPOSIUM PROGRAM

The 11th International Symposium of the Protein Society of Thailand

3 August 2016

08.00 – 8.30 Registration & Poster set up (all posters)

08.30 – 9.00 **Opening Ceremony**

Prof. M.R. Jisnuson Svasti

Chair: Prof. M.R. Jisnuson Svasti

09.00 – 9.40 **PL1:** Computational approaches to coupled folding and binding in protein-protein interactions

Prof. Haruki Nakamura

09.40 – 10.10 **IL1:** Molecular modeling on viral hepatitis C drug targets

Dr. Thanyada Rungrotmongkol

10.10 – 10.40 **Coffee/tea break**

Chair: Assist. Prof. Dr. Kittisak Yokthongwattana

10.40 – 11.00 **O1:** Engineering of a novel tri-functional enzyme with MnSOD, catalase and cell-permeable activities

Ms. Piriya Luangwattananun

11.00 – 11.20 **O2:** Construction and expression of L31-P113 hybrid anti-microbial peptide in *Escherichia coli*

Ms. Manlika Wanmakok

11.20 – 11.40 **O3:** Design and functional studies of alpha-repeat protein scaffolds targeting domains of HIV-1 Gag polyprotein

Ms. Sudarat Hadpech

12.00 – 13.00 **Luncheon Lecture:** Advances in super-resolution imaging to see biology in high definition

Dr. Sunisa Poonpipatgul (GE Healthcare)

13.00 – 14.00 **PST Annual Meeting**

Chair: Assoc. Prof. Dr. Rudee Surarit

14.00 – 14.30 **IL2:** Biochemical characterization of Plasmepsin V from *Plasmodium falciparum* and *Plasmodium vivax*: Substrate specificity and enzyme inhibition

Assist. Prof. Dr. Nonlawat Boonyalai

14.30 – 14.50 **O4:** Protein profiles, LD₅₀ of Bangladesh snake (*Naja naja*) venom together with its effect on mice tissues: Study reveals the necessity for snake bite treatment in Bangladesh

Prof. Md Abu Reza

14.50 – 15.10 **O5:** AhpD-like protein protects against reactive chlorine species-mediated toxicity in pathogenic bacteria

Dr. Adisak Romsang

15.10 – 15.30 **Coffee/tea break**

15.30 – 16.30 **Poster session** (odd numbers with presenters)

16.30 – 17.30 **Welcome Reception**

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Chair: Assoc. Prof. Dr. Polkit Sangwanich

09.00 – 9.30 **IL3:** Discovery of potential biomarkers for diagnosis and classification of well-differentiated thyroid carcinomas

Dr. N. Monique Paricharttanakul

09.30 – 10.00 **IL4:** Proteomics in microbiology: Identification, evolution and adaptation of *Burkholderia pseudomallei*

Assoc. Prof. Dr. Narisara Chantratita

10.00 – 10.30 **Coffee/tea break**

Chair: Dr. Sittiruk Roytrakul

10.30 – 11.00 **IL5:** Quantitative mass spectrometry for multidimensional proteome analysis of cells

Dr. Trairak Pisitkun

11.00 – 11.30 **IL6:** High-density nanoparticle pellicle method for enrichment of plasma membrane-associated proteins in suspension cells

Dr. Waeowalee Choksawangkar

11.30 – 11.50 **O6:** Phylogenetic and amino acid analyses of hnRNP A1 protein domain and partial DNA sequencing of Thai green turtle (*Chelonia mydas*) hnRNP A1 gene

Assist. Prof. Dr. Thanaporn Chuen-Im

12.00 – 13.00 **Luncheon Lecture:** Alternative multi-omic strategies help to reveal a greater insight to biological understanding

Robin Philp (Agilent Technologies)

13.00 – 14.00 **Poster session** (Even numbers with presenters)

Chair: Assoc. Prof. Dr. Palangpon Kongsaree

14.00 – 14.30 **IL7:** Butelase 1: An Asn/Asp-specific ligase for all purposes

Prof. James P. Tam

14.30 – 15.00 **IL8:** Study of liver fluke-induced cholangiocarcinogenesis links to the discovery of the therapeutic targets and biomarkers of cholangiocarcinoma

Assoc. Prof. Dr. Watcharin Loilome

15.00 – 15.30 **Coffee/tea break**

Chair: Assist. Prof. Dr. Dumrongkiet Arthan and Assist. Prof. Dr. Surapong Pinitglang

15.30 – 15.50 **O7:** Model-based design of optimal feeding strategies toward apoptosis suppression for improving monoclonal antibody production in GS-NS0 cell culture

Dr. Chonlatep Usaku

15.50 – 16.10 **O8:** Pore-forming characteristics of *Bordetella pertussis* CyaA-hemolysin in various lipid membranes: Planar lipid bilayer, supported lipid bilayer, liposomes, erythrocytes

Dr. Panchika Prangkio

16.10 – 16.30 **O9:** Major capsid reinforcement by a minor protein in herpesviruses and phage

Dr. Udom Sae-Ueng

16.30 – 16.50 **O10:** Structural basis of microbial glycans recognition by intelectins

Dr. Kittikhun Wangkanont

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8.30 – 9.00 Notification of candidate poster awards (on their posters)

Chair: Assist. Prof. Dr. Kiattawee Choowongkamon

9.00 – 9.30 **IL9:** RNA regulators in neuroepigenetics

Dr. Patompon Wongtrakoongate

9.30 – 10.00 **IL10:** Exploration of global protein–RNA interfaces involved in dengue viral replication

Assist. Prof. Dr. Sarin Chimnaronk

10.00 – 10.30 **Coffee/tea break**

Chair: Prof. James Ketudat-Cairns

10.30 – 11.00 **IL11:** Structures of integrin-containing multivesicular bodies

Dr. Pan Soonsawad

11.00 – 11.40 **PL2:** Capping the end: Structure and function of yeast telomere proteins

Prof. Ming Lei

11.40 – 12.00 **Poster & Oral Awards and Closing Ceremony**

Prof. M.R. Jisnuson Svasti

12.00 – 13.00 Lunch box pick-up & Posters take off