The 10 th International Symposium of The Protein Society of Thailand					
15 July 2015					
08.00 - 08.30	Registration & posters set up				
08.30 - 09.00	Opening ceremony Prof.MR.Jisnuson Svasti				
	Chair: Prof.MR.Jisnuson Svasti				
09.00 - 09.30	Lysine carbamylation for enzymatic function: metal and structural requirements for post-translational modification Dr. Chun-Jung Chen Department of Physics, National Tsing Hua University, Taiwan				
09.30 - 10.00					
	Dr. Ajay Kohli International Rice Research Institute, Philippines				
10.00 - 10.30	Coffee/ tea break				
	Chair: Prof. Worachart Sirawaraporn				
10.30 - 10.50	Recombinant protein expression of cystein-rich venom allergen-like protein of carcinogenic liver fluke <i>Opisthorchis viverrini</i> Dr. Sutas Suttiprapa				
10.50 - 11.10	Purification and biological activities of recombinant human bone morphogenetic protein-2 Dr. Waraporn Kasekarn				
11.10 - 11.40	Epithelial chloride channels as drug targets Dr. Chatchai Muanprasat Department of Physiology, Faculty of Science, Mahidol University, Thailand				
12.00 - 13.00	Luncheon Lecture: The importance and subsequent analysis of post-translational modifications in proteomics Tan Chor Teck Agilent Technologies				
13.00 - 14.00	PST Annual Meeting				
	Chair: Assist. Prof. Dr. Kittisak Yokthongwattana				
14.00 - 14.20	Exploring the origin of catalytic power of chitinase B enzyme from Serratia marcescens: a comprehensive computational investigation Dr. Jitrayut Jitonnom				
14.20 - 14.40	Crosstalk between alpha6-containing nicotinic acetylcholine receptors and P2X receptors Dr. Walrati Limapichat				
14.40 - 15.10	Ligand-specific NOTCH decoys disrupt angiogenesis by unique mechanisms to inhibit tumor growth Dr. Thaned Kangsamaksin Department of Biochemistry, Faculty of Science, Mahidol University, Thailand				

15.10 - ⁻	15.30	Coffee/	tea	break

15.30 - 16.30 **Poster Session**

16.30 - 17.30 Welcome Reception

16 July 2015

Chair: Prof. James Ketudat-Cairns				
09.00 - 09.30	Blockage of EGFR activity: a combined simulation and experimental method Dr. Kiattawee Choowongkamon Department of Biochemistry Faculty of Science Kasetsart University, Thailand			
09.30 - 10.00	Effective saccharification of biomass by cellulolytic and xylanolytic enzymes and application of the enzymes Dr. Khanok Ratanakhanokchai Division of Biochemical Technology, School of Bioresources and Technology King Mongkut's University of Technology Thonburi, Thailand			
10.00 - 10.30	Coffee/ tea break			
Chair: Assoc. Prof. Dr. Polkit Sangvanich				
10.30 - 10.50	Molecular basis of ion selectivity in membrane protein channels: the statistical mechanics study Dr. Saree Phongphanphanee			
10.50 - 11.10	A novel monomeric chitoporin facilitates chitin uptake in <i>Escherichia coli</i> Dr. Wipa Suginta			
11.10 - 11.30	Identification of the catalytic base/nucleophile of the GH20 ß-n- acetylglucosaminidase from <i>Vibrio harveyi</i> through chemical rescue of inactive mutants Mr. Piyanat Meekrathok			
12.00 - 13.00	Luncheon Lecture : An Introduction to BioLayer Interferometry and its application in protein kinetics study Dr. Shenglan Cao Pall Corporation Filtration & Separation (Thailand)			
13.00 - 14.00	Poster Session			
Bioinformatics and Systems Biology				
	Chair: Assoc. Prof. Dr. Palangopn Kongsaeree			
14.00 - 14.30	Structural and site-directed mutagenesis enzyme activity studies of <i>Polygonum minus n</i> erol dehydrogenase (PmNeDH) Dr. Chyan Leong Ng Institute of Systems Biology, Universiti Kebangsaan, Malaysia			

- 14.30 15.00 Integrating patient specific information in rare disorder analysis Dr. Asif Javed Genome Institute of Singapore, A*STAR, Singapore
- 15.00 15.30 Coffee/tea break

- 15.30 15.50 Redox enzymes in *Pseudomonas aeruginosa*: novel mechanisms for drugtargeting design against infectious diseases Dr. Adisak Romsang
- 15.50 16.20 Cytogenomics array for clinical copy number variation (CNV) detection Dr. Natini Jinawath Ramathibodi Hospital, Mahidol University, Thailand
- 16.20 16.50 Identification of novel genomic sequences in a de novo human genome assembly Dr. Benjarath Pupacdi Chulabhorn Research Institute, Thailand
- 16.50 17.20 Structure and function of SET and MYND domain containing (SMYD) proteins Dr. Nualpun Sirinupong Nutraceutical and Functional Food R&D Center Faculty of Agro-Industry, Prince of Songkla University, Thailand

17 July 2015

Human Diseases

Chair: Assoc. Prof. Dr. Rudee Surarit

- 09.00 09.30 Inborn errors of metabolism: molecular research on lysosomal storage disorders in Thailand Dr. Lukana Ngiwsara Laboratory of Biochemistry, Chulabhorn Research Institute, Thailand 09.30 - 10.00 Therapeutic potential of P38 MAPK inhibitor in Ischaemic hearth disease:
 - from mitochondria to the heart Dr. Sarawut Kumphune Biomedical Resaerch Unit in Cardiovascular Sciences, Naresuan University, Thailand
- 10.00 10.30 Coffee/tea break

Disease Proteomics

Chair: Assist. Prof. Dr. Nonlawat Boonyalai					
	A gas phase cleavage reaction of cross-linked peptides for topology studies of macromolecular assemblies in complex mixtures Dr. Hansuk Buncherd				
10.50 - 11.20	Three-dimensional structure of a novel circular bacteriocin from				

Enterococcus faecium isolated from Thai fermented fish. Dr. David J Craik Institute for Molecular Bioscience, The University of Queensland, Brisbane, Qld 4072, Australia

11.20 - **11.50** Oxidized alpha-1 antitrypsin in cholangiocarcinoma : from proteomic study to community screening Dr. Puangrat Yongvanich Department of Biochemistry, Faculty of Medicine, Khon Kaen University,

	Thailand				
12.00 - 13.00	Luncheon Lecture Advanced Technologies for Insightful Cell Imaging & Live Cell Analysis: Novel proteomic high speed, high content multi-spectral imaging cytometry and a micro-fluidic system for precise control in live cell culture experiments George McBride Director of Bioscience - Asia Pacific Merck KGaA, Merck Millipore Division, Bioscience Business Area				
13.00 - 14.00	Poster session				
Chair: Assist. Prof. Dr. Surapong Pinitglang					
14.00 - 14.20	Discovery of O-glcnacylation of extracellular vesicle proteins derived from non-metastasis and metastasis colorectal cancer cell lines Ms. Parunya Chaiyawat				
14.20 - 14.50	Specific expression of O-glycoprotein glycans in cholangiocarcinoma cell lines Dr. Krajang Talabnin Department of Parasitology, Suranaree University of Technology, Thailand				
15.00 - 15.30	Coffee/tea break				
	Chair: Dr. Sittiruk Roytrakul				
15.30 - 15.50	Humanized-VHH transbodies that inhibit HCV protease and replication Mr. Surasak Jittavisutthikul				
15.50 - 16.20	Numbing" responses of macrophages to inflammation Dr. Tanapat Palaga Department of Microbiology, Faculty of Science, Chulalongkorn University, Thailand				
16.20 - 17.00	Poster Award and Closing Prof. M.R. Jisnuson Svasti				