

## Updates of Poster Presentation Sessions

**Q: Do proceeding participants have to prepare poster?**

**A: Yes**, as we noted on the “Remark 1” in the Abstract/Proceeding submission guideline ([http://proteinsocietythai.net/symposium/2018/abs\\_pro\\_guide.php](http://proteinsocietythai.net/symposium/2018/abs_pro_guide.php)).

“Poster presentation is required for all accepted Abstracts/Proceedings.”

**Q: How to do poster presentation?**

**A:** There are 2 poster sessions, “odd numbers session” for odd number poster presentation (August 7, 15:30-16:30) and “even numbers session” for even number poster presentation (August 8, 13:00-14:00). **Please stand by at your poster during your designated session, our committee will look around all the posters and request you to present your poster.** *Please do your best, you will have a chance to win the Poster Awards. The award winners will receive the award certificate and gratuity.*

**Q: How to identify your poster number?**

**A:** The poster number is assigned by the last digit(s) which follows your registration number.

**This is the poster number**

PP001-1	Chris Verathamjamras Serum O-GlcNAcylated protein as a potential biomarker of color
PP011-2	Ratchanok Kramsranooy Impact of food contaminants on chemosensitivity of human hepa carcinoma cells.....

From the example above:

- the poster number of Chris Verathamjamras (**PP001**) is no. “**1**”
- the poster number of Ratchanok Kramsranooy (**PP011**) is no. “**2**”

**Q: When should I set up/remove my poster?**

**A:** Please **set up your poster on the first day before noon** and post it for at least 2 days. You may remove your poster at the end of the second day or the last day after coffee break until 1 pm. **For those who win poster awards (which will be posted on the posters at the end of second day), please retain them until the third day and receive your awards at the Closing Ceremony.**

## POSTER PRESENTATIONS

<b>PP001-1</b>	Chris Verathamjamras Serum O-GlcNAcylated protein as a potential biomarker of colorectal cancer.....	39
<b>PP011-2</b>	Ratchanok Kramsranoey Impact of food contaminants on chemosensitivity of human hepatocellular carcinoma cells.....	40
<b>PP012-3</b>	Phichamon Phetchahwang Investigation of synergistic effect of O-GlcNAc inhibition and cancer drugs on colon cancer stem-like cells.....	41
<b>PP016-4</b>	Aimorn Homchan Biochemical and biophysical characterization of a novel DNA-protein crosslink repair protease Wss1 from <i>Candida albicans</i> .....	42
<b>PP019-5</b>	Yanakorn Thepthit Development of protein expression of recombinant <i>N,N</i> -8-amino-8-demethyl-D-riboflavin dimethyltransferase (RosA) in <i>E.coli</i> as a catalytic machinery for syntheses of antibiotics and flavin-derivatives.....	43
<b>PP024-6</b>	Wachira Chinantuya Characterization of 2-oxo-hept-3-ene-1,7-dioic acid hydratase from <i>Acinetobacter baumannii</i> .....	44
<b>PP027-7</b>	Salila Pengthaisong Nucleophile mutants of <i>Thermoanaerobacterium xylanolyticum</i> TxGH116 $\beta$ -glucosidase for glucoside and oligosaccharide synthesis.....	45
<b>PP028-8</b>	Kadsada Sala Expression of GH3 $\beta$ -xylosidase from rice ( <i>Oryza sativa</i> L.) in <i>Pichia pastoris</i> and characterization of its enzymatic properties.....	46
<b>PP029-9</b>	Meng Huang Cloning and expression of a BAHD acyltransferase from rice.....	47
<b>PP034-10</b>	Rungdawan Wongsamart Study of chaperonin 60 subunits assembly process.....	48
<b>PP043-11</b>	Ratana Charoenwattanasatien X-ray crystallographic and high-speed AFM studies of peroxiredoxin 1 (CrPRX1) from <i>Chlamydomonas reinhardtii</i> .....	49
<b>PP044-12</b>	Manatchanok Kongdin Rice Os4BGlu12 and Os4BGlu13 function as ABA-GE $\beta$ -glucosidases.....	50

<b>PP046-13</b>	Kornkanok Wongprasert Peptide profiles analysis of <i>Escherichia coli</i> against heavy metals by Matrix-Assisted Laser Desorption Ionization–Time of Flight (MALDI-TOF) mass spectrometry.....	51
<b>PP051-14</b>	Thanyada Rungrotmongkol A QM/MM study on cleavage reaction for viral Zika virus NS2B/NS3 serine protease.....	52
<b>PP052-15</b>	Aussara Panya Anti-dengue virus peptides isolated from medicinal plant <i>Acacia catechu</i> .....	53
<b>PP054-16</b>	Jirawan Panachan Secretory high-mobility group box 1 protein affects regulatory T cell differentiation in neuroblastoma microenvironment.....	54
<b>PP056-17</b>	Sunaree Choknud Structural analysis of rice beta-galactosidase 1 (OsBGal1) by small angle X-ray scattering (SAXS).....	55
<b>PP057-18</b>	Papada Chaisuriya Study of nicotine associated effect in A549 lung adenocarcinoma cell line.....	56
<b>PP059-19</b>	Pornpanna Thenchartanana Octyl- $\beta$ -D-glucoside synthesis catalyzed by novel $\beta$ -glucosidases in organic solvent system.....	57
<b>PP062-20</b>	Karunambigai Arthanareeswaran Functional analysis of plant glucosyl ceramidase (GBA2) like enzymes and their effects on sphingolipid metabolism.....	58
<b>PP064-21</b>	Watcharatip Dedkhad Analysis of thoracic proteins of female <i>Aedes togoi</i> , <i>Anopheles lesteri</i> and <i>Anopheles paraliae</i> , responsible for nocturnally subperiodic <i>Brugia malayi</i> infection.....	59
<b>PP065-22</b>	Chayanit Hempolchom IgE-binding proteins in salivary glands of female <i>Simulium nigrogilvum</i> , the main human-biting black fly in Thailand.....	60
<b>PP071-23</b>	Chamaiporn Beagbandee Characterization of <i>Thermosynechococcus elongatus</i> TeGH116 $\beta$ -glucosidase expressed in <i>Escherichia coli</i> .....	61
<b>PP072-24</b>	Wilaiwan Kaenyong Preliminary crystallization of the wild-type and mutant forms of Br2 $\beta$ -glucosidase.....	62

<b>PP075-25</b>	Pattama Singhirunnusorn Arsenite exposure potentiates apoptosis-inducing effects of tumor necrosis factor-alpha through reactive oxygen species.....	63
<b>PP084-26</b>	Pattana Srifah Huehne Effect of paraquat herbicide towards the proteomic profile of <i>Oryza sativa</i> L. cv. Khao Dawk Mali 105.....	64
<b>PP094-27</b>	Rung-Yi Lai Crystallography of eukaryotic thiamin pyrimidine synthase after the reaction.....	65
<b>PP096-28</b>	Methinee Prongjit Cloning, expression, purification, and characterization of lytic polysaccharide monoxygenase from <i>Vibrio harvei</i> .....	66
<b>PP098-29</b>	Pimpisa Teeyakasem Proteomic analysis reveals activation of the unfolded protein response pathway in osteosarcoma.....	67
<b>PP101-30</b>	Pantipa Subhasitanont Identification of potential serum biomarkers of cervical cancer in Thai patients using immunoaffinity and mass spectrometry.....	68
<b>PP102-31</b>	Kamolwan Watcharatanyatip Label-free LC-MS/MS quantitative proteomics for multiple biomarkers discovery in cholangiocarcinoma.....	69
<b>PP103-32</b>	Tunyalux Huangsuwannakorn Molecular investigation of efflux transporter of antibacterial compounds in <i>Pseudomonas aeruginosa</i> .....	70
<b>PP104-33</b>	Veerakit Vanitshavit The important roles of ribonucleases in antibiotic resistance in <i>Stenothrophomonas maltophilia</i> .....	71
<b>PP107-34</b>	Hansuk Buncherd Selective isolation of histidine-containing peptides using strong cation exchange chromatography coupled with histidine-specific modification.....	72
<b>PP108-35</b>	Kamonwan Chamchoy Functional characterization of short-chain dehydrogenase/oxidoreductase (SDR) from <i>Burkholderia pseudomallei</i> .....	73
<b>PP113-36</b>	Juthamas Kaewsonthi Functional characterization of <i>Candida albicans</i> Wss1 orthologue in DNA-protein crosslink repair.....	74
<b>PP115-37</b>	Nongluk Autarkool Exploration of the solution structure of enzyme MurI from <i>Acinetobacter baumannii</i> by SAXS.....	75

<b>PP120-38</b>	Pranai Phoprasat	
	Revealing the different actin filament severing activity of N-terminal half of gelsolin and adseverin by Small Angle X-ray Scattering (SAXS).....	76
<b>PP122-39</b>	Peeranat Jatoratthawichot	
	Expression of human glucosylceramidase 2 isoforms in COS-7 cells.....	77
<b>PP125-40</b>	Theetat Ruangjaroon	
	Mitochondrial dysfunction upon treatment with fipronil on HepG2 cells.....	78
<b>PP128-41</b>	Pipop Saejia	
	Promoting effect of perfluorooctanoic acid on the metastatic potential of Follicular thyroid carcinoma cells.....	79
<b>PP129-42</b>	Autaipohn Kaikaew	
	<i>In silico</i> characterisation and structural analysis of bacterial chitinases.....	80
<b>PP131-43</b>	Akkarawit Prawisut	
	Expression, purification, and characterization of rice ( <i>Oriza sativa</i> ) $\beta$ -D-glucan exoglucanase.....	81
<b>PP138-44</b>	Kitipong Chuanboon	
	Proteome of environmental cadmium tolerance <i>Enterobacter cloacae</i> .....	82
<b>PP140-45</b>	Kittirat Saharat	
	Silencing of TSG101 decreases the anoikis resistance potential of anaplastic thyroid cancer cells.....	83
<b>PP142-46</b>	Pornrutsami Jintaridth	
	Lentivirus-mediated knockdown of HDAC1 induce cellular senescence in PDL cells.....	84
<b>PP156-47</b>	Nisachon Jangpromma	
	Antibacterial and anti-inflammatory activity of designed and synthesized a $\alpha$ -helical peptide from <i>Crocodylus siamensis</i> hemoglobin hydrolysate.....	85
<b>PP157-48</b>	Surachai Maijaroen	
	The anti-proliferative activity on human colon cancer HCT-116 cells of KT2 and RT2, antimicrobial peptides modified from Siamese crocodile Leucrocin I.....	86
<b>PP158-49</b>	Aphinya Thinthasit	
	Gel-based proteomics used to identify novel biomarker of the inedible traditional mushroom.....	87

# PROCEEDINGS

<b>PP003-1</b>	Pharit Kamsri Identification of natural tripeptides targeting the <i>Mycobacterium tuberculosis</i> enoyl-CoA hydratase through computer-assisted inhibitor design, ADMET and toxicity predictions.....	91
<b>PP007-2</b>	Somchart Maenpuen Kinetics of mushroom tyrosinase inhibition by methyl chalcicol in essential oil of <i>Etligeria pavieana</i> (Pierre ex Gagnep.) <i>R.M.Sm.</i> leaf extract.....	99
<b>PP009-3</b>	Jakkrit Jantiya Investigation of host–dengue virus interaction via proteomics.....	110
<b>PP017-4</b>	Aphichart Kanchanatat Effect of inhibition on tyrosinase and melanogenesis of peptide from honey bee ( <i>Apis mellifera</i> ) pollen in B16F10 mouse melanoma cells.....	119
<b>PP026-5</b>	The Phyu Artemisinin resistance in cells lacking Pmr1p is not associated with alteration in the activity of superoxide dismutases.....	129
<b>PP099-6</b>	Gamolthip Niramolyanun The effect of PMSF, serine protease inhibitor, on blood stages of <i>Plasmodium falciparum</i> .....	137
<b>PP100-7</b>	Chonnapat Naktubtim Morphological changes of blood stages <i>Plasmodium falciparum</i> from inhibition of plastid protein synthesis by Doxycycline.....	146
<b>PP105-8</b>	Suchanya Suesattayapirom Growth inhibition induced by expression of poly (ADP-ribose) polymerase (PARP) superfamily tankyrase1 in <i>Saccharomyces cerevisiae</i> .....	154
<b>PP106-9</b>	Wichuda Jankhangram Bioinformatics analysis and characterization of the naturally occurring aspartic proteinase inhibitor, IA <sub>3</sub> from <i>Saccharomyces cerevisiae</i> .....	161
<b>PP112-10</b>	Pasita Sontana Biological activity of crude ethanol extracted of silk sericin protein from silk worm ( <i>Bombyx mori</i> ) for skin whitening cosmetics products.....	170
<b>PP154-11</b>	Pakonsiri Sontisiri The total synthesis of lugdunin.....	178