



Peptides and Proteins
Society (Singapore)

4th Peptides and Proteins Symposium Singapore (P²S²-2018)

Breakthrough Theatre
Matrix Building L4, Biopolis,
30 Biopolis Street, Singapore 138648

P2S2society.com/symposium-2018

10-11th
DEC
2018

P²S²-2018 Programme Schedule

Day 1: Monday, 10th December 2018

9.30am – 9.40am	REGISTRATION & SYMPOSIUM OPENING	
9.00am – 9.30am	Registration	
9.30am – 9.40am	Charles Johannes, PhD <i>P²S²-2018 Conference Chair</i> <i>President, P²S²</i> Head of Organic Chemistry, Institute for Chemistry, and Engineering Sciences (ICES); Agency for Science, Technology and Research (A*STAR)	Opening address
9.40am – 11.00am	SESSION 1: Keynote Lectures	
9.40am – 10.20am	Keynote Lecture Ved Srivastava, PhD Vice President, Chemistry Intarcia Therapeutics, USA	Patient-centric peptide-based drug design and drug delivery for metabolic disease
10.20am – 11.00am	Keynote Lecture: Roman Melnyk, PhD Associate Professor Department of Biochemistry University of Toronto, Canada	Intracellular delivery of protein therapeutics
11.00am – 11.20am	TEA BREAK	
11.20am – 1.00pm	SESSION 2	
11.20am – 11.40am	Dr. Cédric Rentier, PhD (Sponsor talk) Peptide Application Chemist Biotage Japan Ltd	Peptide synthesis workflow: identify and overcome its bottlenecks
11.40am – 12.00pm	Henry Mok, PhD Professor Department of Biological Sciences National University of Singapore	DENV-captured plasmin enhances mosquito midgut infection and is inhibited by endogenous Kazal- type inhibitor
12.00pm – 12.20pm	Peter Bond, PhD Principal Investigator Bioinformatics Institute (BII), A*STAR	Regulation of innate immune pathways by host defense peptides
12.20pm – 12.40pm	Alvin Tan, PhD Research Fellow Emerging Infectious Disease Programme Duke-NUS Medical School	Exploring the links between the subcellular localization of the Flavivirus NS5 protein and its immune modulation function
12.40pm – 1.00pm	Sierin Lim, PhD Associate Professor School of Chemical and Biomedical Engineering Nanyang Technological University	Protein assemblies at interfaces: fundamentals and opportunities
1.00pm – 2.20pm	LUNCH AND POSTER VIEWINGS	

2.20pm – 4.00pm	SESSION 3: KEYNOTE LECTURE & INVITED TALKS	
2.20pm – 3.00pm	<u>Keynote Lecture:</u> Dana Ault Richie, PhD CEO, Reflexion Pharmaceuticals, USA	<i>D-proteins: Using stereochemistry to avoid the immune system and traverse the blood brain barrier</i>
3.00pm – 3.20pm	Ignacio Asial, PhD CEO, DotBio, Singapore	<i>DotBio: Best-in-class domain therapeutic antibodies for next-generation therapies in immuno-oncology</i>
3.20pm – 3.40pm	Shivashankar Khanapur, PhD Research Fellow Singapore Bioimaging Consortium (SBIC), A*STAR	<i>Interleukin-2 receptor-specific PET radioligand for activated T lymphocytes</i>
3.40pm – 4.00pm	Saikiran Sedimbi, PhD Senior Research Fellow, Lane Lab Director, Biomedicum flow cytometry core facility Dept. of Microbiology, Tumor and Cell Biology Karolinska Institutet, Sweden	<i>Visualization of stapled peptides targeting mdm2/mdmx in leucocytes</i>
4.00pm – 4.20pm	TEA BREAK	
4.20pm – 5.40pm	SESSION 4	
4.20pm – 5.00pm	<u>Keynote Lecture:</u> Jonathan Essex, PhD Professor, Computational Systems Chemistry University of Southampton, United Kingdom	<i>The combination of molecular simulation and low-resolution experimental data as a route to peptide and protein structure: applications to bioactive peptides and antibody-antigen complexes</i>
5.00pm – 5.20pm	Clare Jelinska, PhD Senior Research Fellow Institute of Structural Biology Nanyang Technological University	<i>Peptide tools for targeting DAXX in prostate cancer</i>
5.20pm – 5.40pm	Christopher J Brown, PhD Research Scientist Peptide Engineering Program, p53lab, A*STAR	<i>Macrocyclic peptide discovery and target validation</i>
5.40pm – 6.00pm	Ann-Marie Chacko, PhD <i>Treasurer, P²S</i> Assistant Professor Cancer & Stem Cell Biology Programme Head, Laboratory for Translational and Molecular Imaging (LTMI) Duke-NUS Medical School	<i>Singapore's Cancer ImmunoTherapy Imaging (CITI) Programme</i>
6.30pm onwards	NETWORKING AND DINNER RECEPTION AT Matrix Level 4 Atrium	

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Day 2: Tuesday, 11th December 2018

9.00am – 10.20am		
SESSION 5: Keynote Lectures		
9.00am – 9.40am	<u>Keynote Lecture:</u> Ratmir Derda, PhD Assistant Professor Department of Chemistry University of Alberta, Canada	<i>Genetically-encoded glycopeptide libraries</i>
9.40am – 10.20am	<u>Keynote Lecture:</u> Fernando Albericio, PhD Professor Organic Chemistry University of Barcelona, Spain	<i>Bi- and tri-orthogonal linkers for bioconjugation</i>
10.20am – 10.40am		
TEA BREAK		
10.40am – 12.00pm		
SESSION 6		
10.40am – 11.00am	Parisa Hosseinzadeh, PhD Postdoctoral Researcher Institute for Protein Design University of Washington, USA	<i>Computational design of structured peptide-based macrocycles and their applications</i>
11.00am – 11.20am	Rajamani Lakshminarayanan, PhD Principal Investigator Deputy Head, Anti-Infectives Research Group Singapore Eye Research Institute (SERI)	<i>Enhancing the cell selectivity of pore forming peptides by ϵ-lysine residues</i>
11.20am – 11.40am	Brian Chia, PhD (Sponsor talk) Group Leader, Peptide Chemistry Experimental Therapeutics Centre (ETC), A*STAR	<i>Preclinical development of ETC-670, an antimicrobial tetrapeptide for treating MRSA skin infections</i>
11.40am – 12.00pm	Adam Claridge-Chang, PhD Assistant Professor Neurological Behavioural Disease Programme Duke-NUS Medical School	<i>Using <i>Drosophila</i> behavioral assays to characterize terebrid venom-peptide bioactivity.</i>
12.00pm – 2.00pm		
LUNCH AND POSTER PRESENTATIONS (Note: P ² S ² Committee Meeting to be held for Society Members at 1pm)		
2.00pm – 3.20pm		
SESSION 7		
2.00pm – 2.20pm	Lena Ho, PhD Assistant Professor Cardiovascular and Metabolic Disorders Programme Duke-NUS Medical School	<i>Novel endogenous peptides in cardiovascular health and disease</i>
2.20pm – 2.40pm	Puwen Zhang, PhD Senior Vice President Chinese Peptide Company, China	<i>Gut hormones as peptide therapeutics. Recent development and a case study from a novel long acting GLP-1 analog</i>

2.40pm – 3.00pm	Chester Drum, MD PhD Assistant Professor Department of Medicine, Yong Loo Lin School of Medicine National University of Singapore	Bioengineering with thermostable exoshells
3.00pm – 3.20pm	Lim Shuhui, PhD (Sponsor talk) Senior Scientist MSD, Singapore	Inhibition and degradation of drug targets using bioPROTAC mRNAs – a novel approach with broad therapeutic potential
3.20pm – 3.40am	TEA BREAK	
3.40pm – 5.15pm	SESSION 8: Young Investigator Session (Awards sponsored by MSD International)	
3.40pm – 3.52pm	Young Investigator 1	<i>T.B.D.</i>
3.52pm – 4.04pm	Young Investigator 2	<i>T.B.D.</i>
4.04pm – 4.16pm	Young Investigator 3	<i>T.B.D.</i>
4.16pm – 4.28pm	Young Investigator 4	<i>T.B.D.</i>
4.28pm – 4.40pm	Young Investigator 5	<i>T.B.D.</i>
4.40pm – 4.52pm	Young Investigator 6	<i>T.B.D.</i>
4.55pm – 5.15pm	<u>Closing remarks and Awards:</u> Anthony Partridge, PhD <i>P²S²-2018 Conference Chair</i> Principal Scientist, Merck Research Laboratories, MSD, Singapore	

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