



15th Tetrahedron Symposium

ASIA EDITION

CHALLENGES IN BIOORGANIC AND ORGANIC MEDICINAL CHEMISTRY

28 - 31
October 2014

Singapore EXPO



Tuesday 28 October 2014

Room	Foyer
15:00-18:00	Conference registration and poster set-up for session I
18:00-19:00	Welcome reception
18:30-19.30	Poster session I

Wednesday 29 October 2014

07:30	Registration
Room	Peridot 204-205
09:00-09:10	Symposium Welcome – K.D. Janda, The Scripps Research Institute, USA & Prof. Tek Peng Loh, Nanyang Technological University, Singapore
	Session Chair: Stephen Neidle, University College London, UK
09:10-10:00	[INV.01] Francois Diederich, ETH, Switzerland Molecular recognition in chemical and biological systems
10:00-10:50	[INV.02] Itaru Hamachi, University of Kyoto, Japan Ligand-directed chemistry for protein labeling under live conditions
Room	Foyer
10:50-11:20	Refreshment break and Poster session I
Room	Peridot 204-205
	Session chair: John Wood, Baylor University, USA
11.20-12.10	[INV.03] Sarah Reisman, California Institute of Technology, USA Natural product synthesis: A platform for discovery in chemistry and biology
12.10-13.00	[INV.04] Lei Liu, Tsinghua University, China Studies on chemically synthesized proteins
Room	Foyer
13.00-14.30	Lunch and poster session 1
Room	Peridot 204-205
	Session Chair: Steve Martin, University of Texas at Austin, USA
14.30-15.20	[INV.05] Geert-Jan Boons, University of Georgia, USA Functional glycomics through chemical synthesis
15.20-16.10	[INV.06] Xuewei Liu, Nanyang Technological University, Singapore Our recent progress on new glycosylation methods and new glycosylated nanodevices interfacing with living cells
16.10-17.00	[INV.07] Jay Siegel, Tianjin University, China Polar Pi effects in molecular recognition
Room	Foyer
17.00-17.30	Refreshment break and Poster session II
Room	Peridot 204-205
	Session Chair: Kim Janda, The Scripps Research Institute, USA
17.30-18.20	[INV.08] Ikuo Fuji, Osaka Prefecture University, Japan "MicroAntibodies": Generation of molecular-targeting peptides by directed evolution in phage-displayed libraries of conformationally constrained peptides
18.20	Finish

Thursday 30 October 2014

Room	Peridot 204-205
	Session Chair: Tamio Hayashi, National University of Singapore, Singapore
09:00-09:50	[INV.09] Ben Shen, The Scripps Research Institute, USA Ene-diyne biosynthesis, engineering and drug discovery - challenges and opportunities
09:50-10:40	[INV.10] Juyoung Yoon, Ewha Womans University, Republic of Korea Recent progress on fluorescent chemosensors and their applications for bio-imaging



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Room	Foyer
10:40-11:20	Refreshment break and Poster session II
Room	Peridot 204-205
	Session Chair: Brian Stoltz, Caltech, USA
11:20-11:40	[O1] J. Nielsen* , T. Hjelmgaard, <i>University of Copenhagen, Denmark</i> Arylopeptoids, a new type of foldamers with biological activity and predictable conformational control
11.40-12.30	[INV.11] Young Tae Chang , <i>National University of Singapore, Singapore</i> Universal platform for sensor and biolmaging probe development
Room	Foyer
12:30-14.00	Lunch
13.00-14.00	Poster session II
Room	Peridot 204-205
	Session Chair: Tamio Hayashi, National University of Singapore, Singapore
14.00-14.20	[O2] Z.C. Zhang* , X.Q. Li, T. Song, <i>Dalian University of Technology, China</i> Two-face, two-turn α -helix mimetics based on a cross-acridine scaffold: Analogs of the Bim BH3 domain
14.20-15.10	[INV.12] Brian Stoltz , <i>California Institute of Technology, USA</i> Complex natural products as a driving force for discovery in organic chemistry
Room	Foyer
15.10-16.00	Refreshment break and Poster session III
Room	Peridot 204-205
	Session Chair: Kim Janda, The Scripps Research Institute, USA
16.00-16.50	[INV.13] Rudi Fasan , <i>University of Rochester, USA</i> Selective C(sp ³)-H bond functionalization with P450 catalysts
16.50-17.40	[INV.14] Shao Qin Yao , <i>National University of Singapore, Singapore</i> Recent advances in catalomics
17:40	Finish
Room	Peridot 201-202
19:30	Conference dinner (Optional – additional ticket required) - SingEx

Friday 31 October 2014

Room	Peridot 204-205
	Session Chair: John Wood, Baylor University, USA
08.45-09.35	[INV.15] Stephen Neidle , <i>University College London, UK</i> Quadruplexes as medicinal chemistry targets in cancer
09.35-10.25	[INV.16] Hung-wen (Ben) Liu , <i>University of Texas, USA</i> Learning nature's strategies for making unusual sugars - biosynthetic studies of thiosugar formation
10.25-10.45	[O3] K. Oh* , Y. Yoshizawa, <i>Akita Prefectural University, Japan</i> Synthesis and action mechanism of yucaizol, a novel brassinosteroid biosynthesis inhibitor
10.45-11.05	[O4] S.E. Hampton* ¹ , I. Mohammed ¹ , L. Ashall ¹ , R.A. Kutlik ² , E.R. Hilderbrandt ² , S.P. Manandhar ² , B.J. Floyd ² , W.K. Schmidt ² , T.M. Dore ^{1,2} , ¹ <i>New York University Abu Dhabi, United Arab Emirates</i> , ² <i>University of Georgia, USA</i> Inhibitors of the Ras converting enzyme, Rce1 and their effects on Ras signalling
Room	Foyer
11.05-12.05	Refreshment break and Poster session III
Room	Peridot 204-205
	Session Chair: Steve Martin, University of Texas at Austin, USA
12.05-12.55	[INV.17] Sydney Brenner , <i>Janelia Farm, USA</i> The chemistry of DNA computation
12.55-13.05	Poster awards and closing remarks