

2nd Symposium on Biophysics Postgraduate Research in Hong Kong

January 6th (Wed), 2016

Sir Run Run Shaw Building, 9/F, 905 (RRS905; 邵逸夫大樓), Hong Kong Baptist University



Keynote Speaker:

Prof. Wei YANG

Department of Chemistry and Biochemistry
Institute of Molecular Biophysics
Florida State University, USA

ACHIEVING LONG TIME-SCALE SAMPLING OF BIOMOLECULES: HIDDEN BARRIERS AND ORTHOGONAL SPACE SAMPLING

The “slow configuration response” problem has been the bottleneck problem in the field of biomolecular dynamics sampling. This issue has been significantly limiting the actual sampling capability of the entire enhanced sampling scheme. To systematically tackle this challenge, the orthogonal space theory and methods were developed and have been continuously enriched in the past years. With the maturing of this algorithmic framework, unprecedented sampling accelerations can be readily gained and encouraging results indicate that the dream of achieving biologically significant timescales is within reach.

Schedule:

Posters are outside RRS905.

9:45am – 11:45 am Student oral presentations (~12-minute talk and ~3-minute Q & A)

9:45am Yuqing XU (Hong Kong Baptist University)

10:00am Liang XU (Hong Kong Baptist University)

10:15am Zhenpeng GE (Chinese University of Hong Kong)

10:30am Kevin Chun CHAN (City University of Hong Kong)

10:45am ~~~~~Break for 15 minutes~~~~~

11:00am Shuting GU (City University of Hong Kong)

11:15am Siqin CAO (Hong Kong University of Science and Technology)

11:30am Fatima PARDO (Hong Kong University of Science and Technology)

11:45am ~~~~~Lunch break~~~~~

1:45pm – 5:15pm Invited talks (~25-minute talk and ~5-minute Q & A)

1:45pm Prof. Michel A. VAN HOVE (Department of Physics, Hong Kong Baptist University)

Molecular machines

2:15pm Prof. Geoff THORNTON (London Centre for Nanotechnology, University College London, UK)

Electron polarons at the surface of titanium implants

2:45pm ~~~~~Break for 15 minutes~~~~~

3:00pm Prof. Kong-Hung SZE (Department of Microbiology, The University of Hong Kong)

Structure and function studies of a novel class of virulence factor Mp1p in *Penicillium marneffei*:

A novel mechanism of pathogen’s evasion of host defense?

3:30pm Prof. Xiang ZHOU (Department of Mathematics, City University of Hong Kong)

Multiscale Gentlest Ascent Dynamics for slow-fast stochastic system

4:00pm ~~~~~Break for 15 minutes~~~~~

4:15pm Prof. Jian ZHOU (School of Chemistry and Chemical Engineering, South China University of Technology)

Multiscale modelling and simulation of protein adsorption

4:45pm Prof. Jun FAN (Department of Physics and Materials Science, City University of Hong Kong)

BAR-PH domains remodeling cell membrane

5:15pm ~~~~~Break for 15 minutes~~~~~

5:30pm – 6:30pm Keynote talk (~50-minute talk and ~10-minute Q & A)

Prof. Wei YANG (Department of Chemistry and Biochemistry, Florida State University, USA)

Achieving Long Time-Scale Sampling of Biomolecules:

Hidden Barriers and Orthogonal Space Sampling