

Schedule for the “International Conference in Structural Biology”

November 18

14:00-17:00 Registration at Esther Lee Building, Chung Chi College, The Chinese University of Hong Kong

November 19 – Day 1

08:30-09:00 Registration

09:00-09:30 Opening Ceremony, Photo Taking

09:30-10:00 Coffee

Chair: *Xiao-Dong Su and Kam-Bo Wong*

10:00-11:00 **Kurt Wüthrich** (ETH Zürich, Switzerland)
NMR Spectroscopy in Solution and X-ray Diffraction in Crystals for Structural Biology and Structural Genomics (*S01*)

Enzymology I

11:00-11:30 **Ru-Chang Bi** (Institute of Biophysics, Chinese Academy of Sciences, China)
Structural Basis for the Human Bifunctional Enzyme PAICS in Purine Biosynthesis (*S02*)

11:30-12:00 **Geoffrey G. Wilson** (New England Biolabs, USA)
Heterodimeric Restriction Endonucleases (*S03*)

12:00-12:30 **Pang-Chui Shaw** (Chinese University of Hong Kong)
The Centre for Protein Science and Crystallography and Research Activities (*S04*)

12:30-14:00 Lunch

Structural Genomics

Chair: *Christopher H.K. Cheng and Bo Zheng*

14:00-14:50 **Parvez Haris** (De Montfort University, UK)
Role of FTIR Spectroscopy in Structural Proteomics (*S05*)

14:50-15:20 **Xiao-Dong Su** (Peking University, China)
Solving Enzyme Structure by Metabolic Pathways (*S06*)

15:20-15:50 **Hongzhe Sun** (University of Hong Kong)
Metal Transport and Storage Proteins: Implication for Metal Homeostasis (*S07*)

15:50-16:20 Tea

- 16:20-17:10 **Kasaki Yamamoto** (RIKEN SPring-8 Center, Japan)
Protein Crystallography Beamlines at SPring-8 (*S8*)
- 17:10-17:40 **Shan-Ho Chou** (National Chung-Hsing University, Taiwan)
Structural Genomics Studies of *Xanthomonas campestris* at NCHU, Taiwan (*S09*)
- 17:40-18:10 **Bo Zheng** (Chinese University of Hong Kong)
Studying Structure and Function of Proteins by Microfluidic Techniques (*S10*)

November 20 – Day 2

Drug Targets

Chair: Pang-Chui Shaw and Mary M.Y. Waye

- 9:00-10:00 **Eddy Arnold** (CABM & Rutgers University, USA)
HIV Reverse Transcriptase: High Resolution Crystal Engineering, Inhibitor Strategic Flexibility, and Fragment Screening (*S11*)
- 10:00-10:30 **Jinsong Liu** (Guangzhou Institute of Biomedicine and Health, Chinese Academy of Sciences, China)
Structure Bases on the Druggability of Nuclear Hormone Receptors (*S12*)
- 10:30-11:20 Coffee, poster session
- 11:20-11:50 **Yanxiang Zhao** (Hong Kong Polytechnics University)
Structural Analysis of Fluorophore-Labeled Beta-Lactamase as a Biosensor for Beta-Lactam Antibiotics (*S13*)
- 11:50-12:10 **Commercial talk 1 (Cheng Yang, Rigaku Americas Corporation)**
What is the limit for doing it at home? (*C01*)
- 12:10-13:40 Lunch

Chair: Kong-Hung Sze and Mingjie Zhang

- 13:40-14:00 **Commercial talk 2 (Ping Shen, GE-HealthCare)**
Intelligent Purification for Structural Analysis (*C02*)
- 14:00-15:00 **Zihe Rao** (Nankai University and Tsinghua University, China)
Structural Basis for Therapeutic Intervention against the SARS Coronavirus (*S14*)

Gene Regulation & Signaling -I

- 15:00-15:30 **Hon-Cheung Lee** (University of Hong Kong)
Structure and Function of a Calcium Signalling Enzyme - CD38 (*S15*)
- 15:30-16:20 Tea, poster session
- 16:20-16:50 **Mingjie Zhang** (Hong Kong University of Science and Technology)
Synaptic Signalling Complex Organization by Scaffolding Proteins (*S16*)
- 16:50-17:20 **Haiwei Song** (Institute of Molecular and Cell Biology, Singapore)
Structural and Functional Insight into mRNA Decapping (*S17*)

November 21 - Day 3

Protein Folding/Modification

Chair: Shannon W.N. Au and Stephen K.W. Tsui

- 9:00-10:00 **Helen Saibil** (Birkbeck College, University of London, UK)
Chaperonin Action studied by Single Particle Cryo-Electron Microscopy (S18)
- 10:00-10:30 **Kam-Bo Wong** (Chinese University of Hong Kong)
Contribution of Charge-Charge Interactions in Thermostability of Proteins (S19)
- 10:30-11:20 Coffee, poster session
- 11:20-11:50 **Ming-Qun Xu** (New England Biolabs, USA)
Crystal Structures of Mini-Inteins Reveals Conserved Catalytic Modules and Dynamic Features of Protein Splicing (S20)
- 11:50-12:20 **Shannon W.N. Au** (Chinese University of Hong Kong)
Redox Regulation of SUMO Proteases (S21)
- 12:20-12:40 **Commercial Talk 3 (Andrew Wong, Bio-Rad Pacific Ltd.)**
Mechanisms of Protein-Protein Binding: Double-Mutant Cycle Analysis Using the ProteOn™ XPR36 System (C03)
- 12:40-14:10 Lunch

Chair: Yu-Keung Mok and Guang Zhu

- 14:10-14:30 **Commercial Talk 4 (Martin Adam, Bruker AXS B.V.)**
Higher Signal, Lower Noise: How to Get the Best Data from Your Crystals? (C04)

Gene Regulation & Signaling -II

- 14:30-15:20 **Wenqing Xu** (University of Washington, USA)
From β -catenin to PP2A: Structural and Mechanistic Studies of the Wnt Signaling Pathway (S22)
- 15:20-15:50 **Guang Zhu** (Hong Kong University of Science and Technology)
SWIRM Domain of LSD1 Interacts with N-terminal Residues of H3 (S23)
- 15:50-16:20 Tea
- 16:20-17:10 **Jiahuai Wang** (Dana-Farber Cancer Institute, USA)
Structural Basis of Dscam isoform Specificity (S24)
- 17:10-17:40 **Yu-Keung Mok** (National University of Singapore, Singapore)
Chelerythrine and Sanguinarine Bind at Novel Sites on BclXL and Mcl-1 that are Not the Classic "BH3 Binding Cleft" (S25)
- 17:40-18:10 **Kong-Hong Sze** (University of Hong Kong)
Resonance Assignments and Solution Structure of a 28 kDa Active Mutant of Maize Ribosome-Inactivating Protein (MOD) Studied by NMR Spectroscopy (S26)

Banquet

November 22 - Day 4

Enzymology II

Chair: Edwin H.Y. Chan and Yuen-Kit Cheng

- 9:00-9:50 **Kunio Miki** (Kyoto University, Japan)
Crystal Structures of [NiFe] Hydrogenase Maturation Proteins, HypC, HypD, and HypE (S27)
- 9:50-10:20 **Yuen-Kit Cheng** (Hong Kong Baptist University)
Enzymatic Acylation of *N*-benzoyl-L-arginine Ethyl Ester in Binary Aquo-Organic Solvent Mixtures (S28)
- 10:20-10:50 **Maikun Teng** (University of Science and Technology of China, China)
The Structure and Function of AaHIV, a Metalloproteinase from the Venom of *Agkistrodon acutus* (S29)
- 10:50-11:20 Coffee
- 11:20-11:40 **Manwu Zha** (Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences)
Structure and Catalytic Mechanism of Human ADP-Ribose Pyrophosphatase (S30)
- 11:40-12:00 **Jiang Yin** (University of Alberta, Canada)
Structural Insights Into the Inhibition of the SARS-CoV 3C-Like peptidase by phthalhydrazide-charged peptidic compounds (S31)
- 12:00-12:20 **Hong-Yu Hu** (Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences)
Structural Basis for Protein-Protein Interactions Associated with Neurodegenerative Diseases (S32)
- 12:20 Closing Ceremony and Best Poster Award