

Frontier of Protein Crystallography

Centennial Hall, Hokkaido University June 23 (Thu) – 24 (Fri), 2016

June 23 (Thu)

- Opening Remarks Andrew H.-J. Wang (Academia Sinica)
- Structure and dynamics of the polymyxin-resistance-associated response regulator PmrA in complex with the promoter DNA Chwan-Deng Hsiao (Academia Sinica)
- Template-dependent nucleotide chain elongation in the reverse (3'- 5') direction Isao Tanaka (Hokkaido Univ.)
- Structural basis for recognition of linear polyubiquitin chains by ubiquitin-binding proteins Yu-Chih Lo (Natl. Cheng Kung Univ.)
- Structural basis for the chemo-mechanical operation of the Lon AAA+ proteolytic machine Chung-I Chang (Academia Sinica)
- Structural biology of phytohormone signaling Masaru Tanokura (Univ. Tokyo)
- Discovery of a GTP sensor using a structural reverse genetics strategy Toshiya Senda (KEK-PF)
- Insights into ParB spreading from the complex structure of Spo0J and parS Yuh-Ju Sun (Natl. Tsing Hua Univ.)
- Structure-based development of irreversible inhibitors for selective targeting of human type II topoisomerases Nei-Li Chan (Natl. Taiwan Univ.)
- Crystallography of electron-transport components of bacterial photosynthetic membranes Kunio Miki (Kyoto Univ.)
- Detailed view of protein-cofactor interactions derived from high resolution X-ray analyses Kazuki Takeda (Kyoto Univ.)
- High-resolution neutron crystal structural studies of electron transfer proteins Taro Tamada (QST)

June 24 (Fri)

- Recent structural studies of bovine cytochrome oxidase by multiple methods Tomitake Tsukihara (Univ. Hyogo)
- Structural and functional studies of a newly grouped *Haloquadratum walsbyi* bacteriorhodopsin reveal the acid-resistant light-driven proton pumping activity Chii-Shen Yang (Natl. Taiwan Univ.)
- Structural studies of voltage-sensing protein family Atsushi Nakagawa (Osaka Univ.)
- Two alternative structures of oxygen-evolving complex in photosystem II revealed by X-ray crystallography at extremely low doses Nobuo Kamiya (Osaka City Univ.)
- X-ray structure and NMR analysis of the Ga-substituted cyanobacterial ferredoxin interacting with photosystem I Genji Kurisu (Osaka Univ.)
- Structural biology and Infectious diseases Che Alex Ma (Academia Sinica)
- Potential application of the *Staphylococcus aureus* DNA mimic protein SAUGI in combating human viral disease Hao-Ching Wang (Taipei Medical Univ.)
- Structure-activity relationship of oncogenic PKM2 variants Wen-Ching Wang (Natl. Tsing Hua Univ.)
- Neutron and high-resolution X-ray crystallography of an enzyme for oxidative nucleotide processing Yuriko Yamagata (Kumamoto Univ.)
- Molecular base of transsulfuration for synthesizing Cys-tRNA(Cys) by indirect pathway Min Yao (Hokkaido Univ.)
- Crystal structures of a piscine betanodavirus: mechanisms of capsid assembly and viral infection Chun-Jung Chen (NSRRC)

Organizers: Kunio Miki (Kyoto Univ.), Isao Tanaka (Hokkaido Univ.), Atsushi Nakagawa (Osaka Univ.)
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