

Establishment of Structural Biology Network in Asia and Oceania

National Synchrotron Radiation Research Center

Rm. D260, May 21 – 22, 2024

May 21 (Tue)

Opening Remarks & Brief of NSRRC

Der-Hsin Wei (Deputy Director, NSRRC)

Opening Remarks & Introduction of IPR

Genji Kurisu (Director, IPR)

Synchrotron Radiation Beamlines

The current status of protein crystallography beamlines at the NSRRC

Chun-Hsiang Huang (NSRRC, Taiwan)

IPR beamline for biological macromolecular assemblies at SPring-8

Atsushi Nakagawa (IPR, Japan)

Compound screening pipeline at SPring-8 macromolecular crystallography beamlines for drug development

Naoki Sakai (JASRI, Japan)

Fighting against Diseases

Anti-cancer drug discovery facilitated by X-ray protein crystallography

Su-Ying Wu (NHRI, Taiwan)

Structural basis for Rab1 glucosylation by *Legionella* SetA on the early *Legionella*-containing vacuole

Hyouon Sook Kim (NCC, Korea)

Discovery and characterization of genes conferring resistance to antituberculosis antibiotic capreomycin

Chin-Yuan Chang (NYCU, Taiwan)

Regulation, Transportation, and Proteolysis

Cryo-EM structures of KtrAB reveal the synergism of ATP and Na⁺ in activating the bacterial K⁺

Nien-Jen Hu (NCHU, Taiwan)

Structural study of the nuclear transportation mechanism of PPAR γ by Transportin-1

Sachiko Toma-Fukai (NAIST, Japan)

Molecular basis of Cep57 in centrosome regulation

Hui-Chun Chen (NTHU, Taiwan)

Structural basis for intramembrane proteolysis by bacterial site-2 proteases

Terukazu Nogi (YCU, Japan)

May 22 (Wed)

Structural Dynamics with a Hybrid Approach

Structure of cyanobacterial photosystem I complexed with ferredoxin and cytochrome *c*₆ at 1.97 Å resolution

Genji Kurisu (IPR, Japan)

Versatility of MarR domain in the regulation of phenolic compound utilization

Danaya Pakotiprapha (MU, Thailand)

Deciphering the calcium-dependent activation mechanism of *Vibrio campbellii* α -hemolysin

Shih-Ming Lin (NCKU, Taiwan)

Concluding Remarks

Chun-Jung Chen (NSRRC, Taiwan)

Atsushi Nakagawa (IPR, Japan)



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