

Japan-Taiwan Bilateral Seminar on Crystallography: "Frontier of Crystallography"

Date: 2024. Nov. 7th (Thr.) 13:00 ~ 17:40

Place: FUJI hall, EI Building (Emergent/Innovative Engineering Bldg) of Nagoya University
Furo-cho, Chikusa-ku, Nagoya, 464-8603

13:00-13:05	Opening Remarks & Introduction of IPR	Genji Kurisu (IPR)
13:05-13:10	Opening Remarks & Introduction of Crystallography Society of Taiwan	Nei-Li Chan (National Taiwan University)
13:10-13:15	Opening Remarks & Introduction of RCCME	Masashi Hasegawa (Nagoya Univ.)
Session I		
13:15-13:40	Setup and operation of 3DED/microED experiments at KEK and Tsukuba Univ.	Naruhiko Adachi (University of Tsukuba)
13:40-14:05	Structural Analysis of TREX1: From Catalytic Property Identification to Inhibitor Development	Yu-Yuan Hsiao (National Yang-Ming Chiao -Ting University)
14:05-14:30	Structural biology of the type IV pilus from enteric bacterial pathogens	Kazuki Kawahara (Osaka University)
14:30-14:50	Tea Break/Group Photo	
Session II		
14:50-15:15	Calcium-dependent modulation and lectin domain function in the activation of <i>Vibrio campbellii</i> α -hemolysin	Shih-Ming Lin (National Cheng-Kung University)
15:15-15:40	Tailoring Structural Analysis of Functional Small-Molecule Crystals with X-ray and Electron Diffraction Methods Depending on Crystal Properties	Toshiyuki Sasaki (Japan Synchrotron Radiation Research Institute)
15:40-16:05	Structural Basis of Mitochondrial DNA Degradation Machinery	Chyuan-Chuan Wu (National Cheng-Kung University)
16:05-16:25	Tea Break	
Session III		
16:25-16:50	Structural analysis of amide protons using high-resolution neutron crystallography	Yuya Hanazono (Institute of Science Tokyo)
16:50-17:15	Structural basis of class II phosphoinositide 3-kinase regulation and pharmacological inhibition	Wen-Ting Lo (National Chung-Hsing University)
17:15-17:30	General Discussion	All members
17:30-17:35	Introduction/Announcement of AsCA2025	Atsushi Nakagawa (IPR)
17:35-17:40	Closing Remarks	Kazumasa Sugiyama (Tohoku University)

General Discussion

Nei-Li Chan (NTU), Yu-Yuan Hsiao (NYCU), Shih-Ming Lin (NCKU), Chyuan-Chuan Wu (NCKU), Wen-Ting Lo (NCTU), Toshiyuki Sasaki (JASRI/SPring-8), Yuya Hanazono (Science Tokyo), Kazuki Kawahara (OU), Naruhiko Adachi (UT), Chuang Lu Chung (THU), Sachiko Toma-Fukai (NAIST), Kunihiisa Sugimoto (KDU), Yoshiki Kubota (OMU), Masashi Hasegawa (NU), Kazumasa Sugiyama (THU), Atsushi Nakagawa (IPR, OU), and Genji Kurisu (IPR,OU)

Host: Institute of Protein Research (IPR)

Co-host: Research Center for Crystalline Materials Engineering (RCCME)

Co-host: Comprehensive Research Organization for Science and Society (CROSS)

Purpose: To promote the development of crystallography in Taiwan and Japan and to deepen the personal exchange between the two countries by inviting young researchers to be at the forefront of crystallography.

Target: Researchers and technicians in industry and academia who utilize crystallography as well as structural biology

Purpose and Contents: The Taiwan-Japan Crystallography Seminar has been held alternately between Japan and Taiwan for a long time. The human network cultivated through these seminars has led to the construction of the Taiwan Beamline at SPring-8 and provided the beamtime of the Institute for Protein Research Beamline of Osaka University (BL44XU). In order to further develop the research exchange between Taiwan and Japan on crystallography, we would like to have this seminar by inviting young crystallographers from both countries beyond biology to present their recent research results, exchange information, and discuss the future of crystallography.

Organizers: Genji Kurisu (IPR), Atsushi Nakagawa (IPR), Sachiko Toma-Fukai (NAIST)

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Participate fee: free

Registration required:
Registration form

<https://forms.gle/8mwEfnSNQQ9o9Au6>

