

# RCCME-IPR-CROSS Workshop

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

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

Place: FUJI hall, EI Building of Nagoya University  
Furo-cho, Chikusa-ku, Nagoya, 464-8603

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

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|--------------------|---|---|
| 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.)                                   |
| <b>Session I</b>   |   |   |
| 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   |   |
| <b>Session II</b>  |   |   |
| 14:50-15:15        | Calcium-dependent modulation and lectin domain function in the activation of <i>Vibrio campbellii</i> $\alpha$ -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   |   |
| <b>Session III</b> |   |   |
| 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)

Institute of Protein Research (IPR)

Research Center for Crystalline Materials Engineering (RCCME)

Comprehensive Research Organization for Science and Society (CROSS)

