



2024/03/28 (TH)

Cryo-EM Workshop

from sample preparation to data processing

PROGRAM

08:30 – 09:00	Registration	
LECTURE SESSION		
Location: 1 st Conference Room, 3F, Building for Humanities and Social Sciences		
09:00 – 09:10	Opening remarks <i>Dr. Shang-Te Danny Hsu / Research Fellow, Institute of Biological Chemistry</i>	
09:10 – 10:00	Cryo-EM applications for biomolecular structures <i>Dr. Kuen-Phon Wu / Assistant Research Fellow, Institute of Biological Chemistry</i>	
10:00 – 10:30	Uncover the special technique of cryo-EM for biological studies <i>Dr. Yuan-Chih Chang / Associate Research Specialist, Institute of Biological Chemistry</i>	
10:30 – 10:45	Coffee Break	
10:45– 11:00	Data Processing - How to use DICOS? <i>Mr. Tsung-Hsun Wu / IT, Academia Sinica Cryo-EM Facility</i>	
11:00 – 12:00	Data collection and data processing - CryoSPARC live and CryoSPARC <i>Dr. Chun-Hsiung Wang / Staff Scientist, Academia Sinica Cryo-EM Facility</i>	
12:00 - 13:30	Lunch Break Location: 4F, Building for Humanities and Social Sciences	
HANDS-ON SESSION (3 groups, 5 trainees per group)		
Location: Academia Sinica CryoEM Facility, B2, Interdisciplinary Sci. & Tech. Building		
13:30 - 14:00	PART 1 Group 1: Negative stain and Cryo-EM grid preparation Group 2: Cryo-ET data collection demonstration on Talos Group 3: SPA data collection demonstration on Titan combined with CryoSPARC live	ASCEM <i>Dr. Yuan-Chih Chang</i> <i>Dr. Chun-Hsiung Wang</i> <i>Dr. Irene Deli</i>
14:00 – 14:10	Break	
14:10 – 14:40	PART 2 Group 1: Cryo-ET data collection demonstration on Talos Group 2: SPA data collection demonstration on Titan combined with CryoSPARC live Group 3: Negative stain and Cryo-EM grid preparation	ASCEM <i>Dr. Yuan-Chih Chang</i> <i>Dr. Chun-Hsiung Wang</i> <i>Dr. Irene Deli</i>
14:40 – 14:50	Break	
14:50 – 15:20	PART 3 Group 1: SPA data collection demonstration on Titan combined with CryoSPARC live Group 2: Negative stain and Cryo-EM grid preparation Group 3: Cryo-ET data collection demonstration on Talos	ASCEM <i>Dr. Yuan-Chih Chang</i> <i>Dr. Chun-Hsiung Wang</i> <i>Dr. Irene Deli</i>
15:20 – 15:30	Break	
15:30 - 17:00	Open Discussion and/or Consultation	