

JST-Bay Area Structural Biology Workshop and Laboratory Visit

Program:

◆January 23 (Monday)

●Lectures (9:30-17:25) Li Ka Shing Center, Paul Berg Hall A

Time	Title	Name	Affiliation
8:45-9:30	Registration		
9:30-9:45	Welcome	Soich Wakatsuki	SLAC, Stanford University
Session 1 Protein dynamics 1		Chair: Henry van den Bedem (SLAC BIO)	
9:45-10:10	Artificial cell-membrane microsystems for highly sensitive analysis of membrane proteins	Rikiya Watanabe	The University of Tokyo
10:35-11:00	Relaxation Mode Analysis for Molecular Simulations of Proteins	Ayori Mitsutake	Keio University
11:00-11:25	Single molecule force measurements in living cells reveal a minimally tensioned integrin state	Alex Dunn	Stanford University
Break (Coffee)			
Session 2 Protein dynamics 2		Chair: Tsutomu Matsui (SSRL)	
11:40-12:05	Force-Dependent Molecular Interactions in Adherens Junction Assembly	Bill Weis	Stanford University
12:05-12:30	Elucidation of chemomechanical coupling mechanism of myosin V by advanced high-speed atomic force microscopy	Noriyuki Kodera	Kanazawa University
12:30-12:55	Engineering controllable biomolecular motors	Zev Bryant	Stanford University
Lunch & Poster Viewing			
Session 3 Translation, folding and quality control		Chair: Hasan DeMirci (SLAC Bio)	
14:05-14:30	Dynamics of Translation	Jody Puglisi	Stanford University
14:30-14:55	Structural basis for the foldase/holdase activity of Trigger Factor chaperone	Tomohide Saio	Hokkaido University
14:55-15:20	From Structure to Function: role of the chaperonin TRiC/CCT in cellular proteostasis	Judith Frydman	Stanford University
15:20-15:45	Structural basis for determination of glycoprotein fates coupled with N-glycan processing in cells	Tadashi Satoh	Nagoya City University
15:45-16:05	Mechanism of Degradation-Coupled Substrate Deubiquitination at the 26S Proteasome	Andreas Martin	University of California, Berkeley
Break (Coffee)			

Session 4 Transcription and gene editing		Chair: Naotaka Tsutumi	
16:20-16:45	Uncovering ancient transcription systems with a novel evolutionary indicator	Naruhiko Adachi	High Energy Accelerator Research Organization (KEK)
16:45-17:10	Role of Mediator in Transcription Control	Philip Robinson	Stanford University
17:10-17:35	Structure and mechanism of class 2 CRISPR-Cas effector nucleases	Hiroshi Nishimasu	University of Tokyo

●Poster session (17:35-18:30)

◆January 24 (Tuesday)

●Lectures (9:00-11:55) Li Ka Shing Center, Paul Berg Hall A

Time	Title	Name	Affiliation
Session 4 Transcription and gene editing (cont.)		Chair: Naotaka Tsutumi	
9:00-9:25	Pan-specific recognition and transcriptional regulation of multidrug transcriptional repressor	Koh Takeuchi	National Institute of Advanced Industrial Science and Technology
9:25-9:50	Nucleosome plasticity is required for the function of a chromatin remodeling motor	John Gross	University of California San Francisco
Break			
Session 5 Membrane proteins: transport and signal transduction		Chair: Hideaki Kato	
10:05-10:30	Structure of a Sialic Acid Transporter	Rosmarie Friemann	Stanford University
10:30- 10:55	Molecular mechanism of SWEET sugar transporter	Liang Feng	Stanford University
10:55- 11:20	Activation mechanism of endothelin ETB receptor by endothelin-1	Tomohiro Nishizawa	The University of Tokyo
11:20-11:45	Structural insights into G protein coupled receptor signaling	Brian Kobilka	Stanford University
Closing remarks			
11:45-11:55	Closing remarks	Soichi Wakatsuki	SLAC, Stanford University