



Short talk Session Program

May 13th (Fri) 1:30pm -4:00pm

Room : Main Office Building Lecture Hall

Time	Name	Affiliation	Title
A01_Structural biology (Chair; Iwata)			
13:30-13:40	Shima Fumi	Kobe University	Elucidation of cancer signal transduction mechanism using photo-controllable Ras on an atomic scale.
13:40-13:50	Shimada Atsuhiko	Gifu University	The structures of catalytic intermediates of cytochrome c oxidase
13:50-14:00	Suga Michihiro	Okayama University	Extrapolated difference Fourier map is an illustrative method to analyze light-induced structural changes in a photosynthetic membrane protein
14:00-14:10	Cancel		
A01_Structural biology (Chair; Park)			
14:10-14:20	Ohashi Sayaka	Nagoya Institute of Technology	Strategic approach towards cone pigment structure determination
14:20-14:30	Katayama Kota	Nagoya Institute of Technology	Vibrational spectroscopic study of G protein-coupled receptor
14:30-14:40	Tanaka Ichiro	Ibaraki University	Reconsideration of hydrolysis reaction mechanism by lysozyme-NAG complex crystal structure analysis
(Break)			
A01_Chemical biology (Chair; Kiyonaka)			
14:50-15:00	Shimomura Takushi	National Institute for Physiological Sciences	Generation of photo-switchable potassium channels by incorporation of the azobenzene-based unnatural amino acid
15:00-15:10	Campbell Robert	The University of Tokyo	Next Generation Biosensors Enabled by High-speed Visualization of Dynamic Mechanisms
B01_Molecular Movie Platform Design (Chair; Yamamoto)			
15:10-15:20	Suzuki Akihiro	Hokkaido University	Reducing background noise of X-ray crystallography data through improved sample environment
15:20-15:30	Matsuura Hiroaki	RIKEN	Development of in-vacuum diffractometer for microcrystallography at SPring-8 (Online)



Room : YCU 2F Library

Time	Name	Affiliation	Title
C01_Computational Chemistry and Spectroscopy (Chair; Kubo, Kimura)			
13:30- 13:40	Kimura Tetsunari	Kobe University	Microspectroscopic systems for time-resolved measurements of protein microcrystals
13:40- 13:50	Mizuno Misao	Osaka University	Cis-trans reversion preceding reprotonation of the retinal chromophore in the schizorhodopsin photocycle (Online)
13:50- 14:00	Kubo Minoru	University of Hyogo	Time-Resolved Spectroscopy for Tracking DNA Repair by Photolyase
14:00- 14:10	Yagi Kiyoshi	RIKEN	Reaction dynamics of light-driven protein studied by non-adiabatic QM/MM molecular dynamics simulations
14:10- 14:20	Mizuno Yosuke	Nagoya Institute of Technology	Low-temperature UV-visible and FTIR spectroscopic studies on a UV sensitive visual pigment
(Break)			
C01_Computational Chemistry and Spectroscopy (Chair; Miyashita, Syouji)			
14:30- 14:40	Mitsutake Ayori	Meiji University	Analysis for Stability and Dynamics of Proteins using Molecular Dynamics Simulations
14:40- 14:50	Yokoi Shun	Meiji University	Molecular Dynamics Simulations for Determination of the Characteristic Structural Differences between Inactive and Active States of Wild-type and Mutants of the Orexin 2 Receptor (Online)
14:50- 15:00	Kitao Akio	Tokyo Institute of Technology	Analysis of free energy landscape and pathways of protein structural changes, dissociation and association
15:00- 15:10	Shoji Mitsuo	University of Tsukuba	Theoretical insights into the molecular mechanisms of dynamical biochemical reactions
15:10- 15:20	Hayashi Shigehiko	Kyoto University	Theoretical study on molecular mechanism of an activation process of aequorin bioluminescence (Online)

#Hybrid meeting with Zoom.

#Language: English

#5min presentation + 4min Q & A