

Biological Chemistry on Membranes - Understanding and Engineering -

Date: 28th-29th August, 2023

Venue: iCeMS Main Building, 2F Seminar Room, Kyoto University

28th August				
12:55-13:00	Opening Remarks			
	Session 1 Cha		Yoshio Hirabayashi	RIKEN
13:00-13:30	Importance of the structural flexibility of curvature-sensing pept that enable highly sensitive detection of extracellular vesicles	tides	Kenichi Kawano	Kyoto University
13:30-14:00	Design and interfacial functions of hybrid supramolecules base peptide amphiphiles	d on	Rie Wakabayashi	Kyushu University
14:00-14:30	Designed peptide channels and pores: structural stability and dynamics		Ai Niitsu	RIKEN
14:30-15:00	Development of synthetic molecules for material recognition and permeation in membranes	id	Kohei Sato	Kwansei Gakuin University
15:00-15:30	Artificial cell-membranes: from construction to nanopore applications	te	Ryuji Kawano	Tokyo University of Agriculture and Technology
15:30-15:50	Break			
K.	Session 2	Chair:	Taroh Kinoshita	Osaka University
15:50-16:20	Physicochemical conditions to reproduce the crowding environment of membrane proteins in liposome and droplet interface bilayers	ment s	Miho Yanagisawa (on-line)	University of Tokyo
16:20-16:50	Innovative platform technologies for cellular engineering: cell- resealing technique and image-based covariation network analy-	100	Fumi Kano (on-line)	Tokyo Institute for Technology
16:50-17:20	Development of ligands that specifically bind to oligomeric amy protein	loid	Kaori Tsukakoshi (on-line)	Tokyo University of Agriculture and Technology
17:20-17:50	Imaging membrane lipids in mouse brain by robotic liquid extra surface analysis	action	Hisako Akiyama	Juntendo University
17:50-18:20	Lipid scrambling that alters asymmetrical distribution of lipids		Jun Suzuki	Kyoto University
18:30	Mixer			
29th August		57	200	
			Michio Murata	Osaka University
9:30-10:00	Solid-state NMR on membrane proteins and membrane-bepeptides	ound	Izuru Kawamura	Yokohama National University
10:00-10:30	Structural physiology of P-type ATPases that generate asymm distribution of substrates across the membrane	netric	Kazuhiro Abe	Nagoya University
10:30-11:00	Screening of genes involved in lipid metabolism using organ selective lipid labeling	nelle-	Tomonori Tamura	Kyoto University
11:00-11:30	Decoding substrate specificities: Role of lipid flippases in cellula functions	ar	Hye-Won Shin	Kyoto University
11:30-12:00	Chemical synthesis and structural characterization of caveolin-	1	Hironobu Hojo	Osaka University
12:00-12:05	Concluding Remarks			

Organizers: Jun Suzuki (iCeMS), Ryuji Kawano (TUAT), Hironobu Hojo (IPR)

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