



Abstract

OIST-Kyoto University Joint Workshop
-Challenges in Biomedical Complexity-

PROGRAM

Day 1-NOV 2 (Wed.)

10:00	(5)	Opening remarks by Dr. Akihiro Kusumi and Dr. Kazuhiro Iwai				
				TALK SESSION		
10:05	(25)+ (5)	Tomomi Kiyomitsu	Assistant Professor, OIST	Plasticity of chromosome segregation mechanism during development	O1	
10:35	(25)+ (5)	Kazuhiro Iwai	Professor, Kyoto U	Unexpected regulation and function of LUBAC-mediated linear ubiquitination in immunity	Chair: Paola Laurino & Osamu Takeuchi	
11:05	(25)+ (5)	Paola Laurino	Assistant Professor, OIST	Enzymes' behavior in highly crowded membrane-less compartments		O2
11:35	(25)+ (5)	Jun Suzuki	Professor, Kyoto U	Unbiased screening approaches to reveal mechanisms of lipid dynamics		K2
12:05	(60)	Lunch/Coffee				
				YOUNG SCIENTISTS SHORT TALKS		
13:05	(11)+ (4)	Keiko Yasuda	Assistant Professor, Kyoto U	MEX3B, an RNA-binding protein, strongly suppresses HIV-1 viral replication depending on its RNA-binding ability	Y1	
13:20	(11)+ (4)	Rieko Ajima	Staff Scientist, OIST	E3 ubiquitin ligase HUWE1 regulates planar cell polarity through controlling Pk localization	Chair: Akihiro Kusumi & Jun Suzuki	
13:35	(11)+ (4)	Takuma Asahi	PhD Candidate, Kyoto U	Lineage heterogeneity underlies the multiple origins and functions of type 1 innate lymphoid cells		Y3
13:50	(11)+ (4)	Marvin van Toorn	Research Unit Technician, OIST	NuMA deficiency causes micronuclei via checkpoint-insensitive k-fiber minus-end detachment from mitotic spindle poles		Y4
14:05	(11)+ (4)	Rurika Okuda	PhD Candidate, Kyoto U	Unbalanced translocation der(1;7)(q10;p10) as a distinct subtype in myelodysplastic syndromes		Y5
14:20	(11)+ (4)	Mohamed Eltabbal	PhD student, OIST	Grasping the tongue : Cerebellar control of adaptive tongue kinematics in mice		Y6
14:35	(10)	Break				
				TALK SESSION		
14:45	(25)+ (5)	Osamu Takeuchi	Professor, Kyoto U	Post-transcriptional control of immune responses by Regnase-1 and its role in health and disease	K3	
15:15	(25)+ (5)	Tadashi Yamamoto	Professor, OIST	Post-transcriptional regulation by CCR4-NOT: Lessons from immune cells	Chair: Hideki Ueno & Tadashi Yamamoto	
15:45	(20)	Coffee Break				
16:05	(25)+ (5)	Hideki Ueno	Professor, Kyoto U	Human Immunology 2.0		K4
16:35	(25)+ (5)	Hiroki Ishikawa	Associate Professor, OIST	Regulation of AP-1 transcription factors in autoimmune diseases and vaccine responses		O4
17:05	(25)+ (5)	Yoko Hamazaki	Professor, Kyoto U	Age-related and individual heterogeneity of immune responses to SARS-CoV-2 mRNA vaccine		K5
18:15	(120)	Networking dinner (Greetings from Dr. Peter Gruss and Dr. Nagahiro Minato)				

Day 2-NOV 3 (Thu.)

TALK SESSION

9:30	(25)+ (5)	Michiyuki Matsuda	Professor, Kyoto U	Intercellular communication by growth factors and prostaglandin E2	Chair: Akihiro Kusumi & Yasunori Hayashi	K6	
10:00	(25)+ (5)	Bruno Humbel	Electron Microscopy Expert, OIST	Electron Microscopy in Uchinaa: Reality and Dreams		O5	
10:30	(20)	Coffee Break					
10:50	(25)+ (5)	Dai Watanabe	Professor, Kyoto U	Imaging the neural basis of cognitive flexibility in decision making		K7	
11:20	(25)+ (5)	Akihiro Kusumi	Professor, OIST	Development of ultrafast single molecule imaging, PALM, and dSTORM and their application to reveal molecular architecture and dynamics of the focal adhesion		O6	
11:50	(60)	Lunch					

YOUNG SCIENTISTS SHORT TALKS

12:50	(11)+ (4)	Taka A. Tsunoyama	Postdoctoral Scholar, OIST	Nanoscale condensed liquid platform on the plasma membrane for signal integration	Chair: Norimichi Nomura & Tomomi Kiyomitsu	Y7
13:05	(11)+ (4)	Qianli Zhang	Researcher, Kyoto U	Engineered fast-dissociating antibody fragments for multiplexed super-resolution microscopy, IRIS		Y8
13:20	(11)+ (4)	Prashant Jain	Postdoctoral Scholar, OIST	Directed Evolution Approach to Study Complex Kinase Signaling		Y9
13:35	(11)+ (4)	Eriko Deguchi	PhD Candidate, Kyoto U	Extracellular dynamics of EGFR ligands dictates the mode of intercellular communications		Y10
13:50	(11)+ (4)	Yuto Kita	PhD Candidate, Kyoto U	Utilization of multiplexed CRISPR-Cas3 system for multi-exon skipping in DMD patient-derived iPSCs		Y11
14:05	(11)+ (4)	Haytham Mohamed	Postdoctoral Scholar, OIST	Characterization of a knock-in mouse model of TFG-associated hereditary motor and sensory neuropathy		Y12

Day 3-NOV 4 (Fri.)

TALK SESSION

9:30	(25)+ (5)	Matthias Wolf	Professor, OIST	Assembly mechanism of the pleomorphic immature poxvirus scaffold	Chair: Bruno Humbel & Dai Watanabe	O7	
10:00	(25)+ (5)	Norimichi Nomura	Professor, Kyoto U	Unveiling membrane protein structures with the aid of antibody toolkits		K8	
10:30	(10)	Coffee Break					
10:40	(25)+ (5)	Bernd Kuhn	Professor, OIST	Imaging neuronal activity with 2-photon microscopy in awake mice		O8	
11:10	(25)+ (5)	Yasunori Hayashi	Professor, Kyoto U	Online and offline LTP during memory consolidation		K9	
11:40	(10)	Closing Remarks by Dr. Michiyuki Matsuda and Dr. Nicholas Luscombe					