

PROGRAM

Day1: October 27 (Wed.)

09:30-09:40	Instructions Manabu Ozawa [Associate Professor, The Institute of Medical Science, The University of Tokyo (IMSUT)]
09:40-09:55	Opening remarks Yuji Yamanashi [Dean/Professor, IMSUT]
09:55-10:35	Self-introduction of each institution Yuji Yamanashi [Dean/Professor, IMSUT] Jeong KyoYoon [President/Professor, Soonchunhyang Institute of Medi-bio Science, Soonchunhyang University (SIMS)] Mary Collins [Provost, Okinawa Institute of Science and Technology Graduate University (OIST)] Jongkyeong Chung [Director/Professor, Institute of Molecular Biology and Genetics, School of Biological Sciences, Seoul National University (IMBG)] Haitao Yang [Executive Director, Shanghai Institute for Advanced Immunochemical Studies (SIAIS), ShanghaiTech University] Yoshio Koyanagi [Director/Professor, Institute for Frontier Life and Medical Sciences, Kyoto University (INFRONT)] Ming-Shyue Lee [Chair/Professor, Institute of Biochemistry and Molecular Biology, National Taiwan University (IBMB)] JianFeng Chen [Assistant Director/Professor, Shanghai Institute of Biochemistry and Cell Biology, Chinese Academy of Sciences (SIBCB)]
10:35-10:45	<i>Break</i>
Session 1 : Aging and degenerative disorders Chair: Jing-Jer Lin [Professor, IBMB]	
10:45-11:00 O-1	Understanding the roles of microenvironment in regulating skin fibrosis Yongsung Hwang [Associate Professor, SIMS]
11:00-11:15 O-2	Selective autophagy networks in senescence Chanhee Kang [Assistant Professor, IMBG]
11:15-11:30 O-3	Stem cell-centric mechanisms of organ aging: Lesson from the skin Emi K. Nishimura [Professor, IMSUT]

11:30-11:45 O-4	Reduction in endoplasmic reticulum stress activates beige adipocytes differentiation and alleviates high fat diet-induced metabolic phenotype Jaeseok Han [Associate Professor, SIMS]
11:45-12:00 O-5	Central control of body temperature Wei Shen [Associate Professor, School of Life Science and Technology (SLST), ShanghaiTech University]
12:00-13:15	<i>Lunch</i>
Session 2 : Cancer Chair: Tomoji Mashimo [Professor, IMSUT]	
13:15-13:30 O-6	Serine protease inhibitor HAI-2 as a tumor suppressor against prostate cancer progression Ming-Shyue Lee [Chair/Professor, IBMB]
13:30-13:45 O-7	Regeneration of cytotoxic T lymphocytes from iPS cells: Development of “off-the-shelf T cells” for cell therapy targeting cancer and viral infection Hiroshi Kawamoto [Professor, INFRONT]
13:45-14:00 O-8	CRISPR screening to identify the key modulators for effective immunotherapy Guangchuan Wang [Professor, SIBCB]
14:00-14:15 O-9	Development and applications of CRISPR-KO screening Kosuke Yusa [Professor, INFRONT]
14:15-14:25	<i>Break</i>
Session 3 : Genome science Chair: Kosuke Yusa [Professor, INFRONT]	
14:25-14:40 O-10	Application of genome editing technology CRISPR-Cas3 in gene therapy Tomoji Mashimo [Professor, IMSUT]
14:40-14:55 O-11	Another tale of M13 bacteriophages Jia Liu [Assistant Professor, SIAIS, ShanghaiTech University]
14:55-15:10 O-12	Big data technologies for genome science Tetsuo Shibuya [Professor, IMSUT]
15:10-15:25 O-13	Structure-based protein function prediction and mechanism study Suwen Zhao [Assistant Professor, iHuman Institute/SLST, ShanghaiTech University]
15:25-15:40	<i>Break</i>
15:40-17:00	Young Scientist Session/Student Session at Zoom breakout room Young Scientist Session: Breakout room 1 Student Session: Breakout room 2
17:00-17:10	<i>Break</i>
Session 4 : Development and stem cell Chair: Mototsugu Eiraku [Professor, INFRONT]	
17:10-17:25 O-14	Genetic approaches for identifying novel regulators during respiratory development and homeostasis Hyun-Taek Kim [Assistant Professor, SIMS]
17:25-17:40 O-15	Paternal chromatin remodeling in mammalian reproduction and infertility Lan-Tao Gou [Principal Investigator, SIBCB]

17:40-17:55 O-16	Gene expression control of embryonic reprogramming in <i>Drosophila</i> Mihye Lee [Associate Professor, SIMS]
17:55-18:10 O-17	Essential role of Dynein Road Block 1 in the survival of adult sensory neurons Marco Terenzio [Assistant Professor, OIST]
18:10-18:25 O-18	Modeling of liver tissue structures <i>ex vivo</i> Naoki Tanimizu [Associate Professor, IMSUT]
18:25-18:30	Instructions Manabu Ozawa [Associate Professor, IMSUT]

Day2: October 28 (Thu.)

09:25-09:30	Instructions Manabu Ozawa [Associate Professor, IMSUT]
Session 5 : Molecular mechanisms and techniques-1 Chair: Jiaquan Liu [Principal Investigator, SIBCB]	
09:30-09:45 O-19	Understanding the mechanisms of mitotic spindle assembly and positioning using advanced genetic and optogenetic technologies Tomomi Kiyomitsu [Assistant Professor, OIST]
09:45-10:00 O-20	CRMP/UNC-33 organizes microtubule bundles for KIF5-mediated mitochondrial distribution to axon Chan-Yen Ou [Assistant Professor, IBMB]
10:00-10:15 O-21	Functional tissue formation from pluripotent stem cells by multicellular autonomy Mototsugu Eiraku [Professor, INFRONT]
10:15-10:30 O-22	Dynamics of <i>cis</i> -regulatory elements interactome during lineage specification maps target genes to disease-associated non-coding DNA elements Xin Liu [Primary Investigator, SIBCB]
10:30-10:45 O-23	Live imaging of taste cells in action Myunghwan Choi [Associate Professor, IMBG]
10:45-10:55	Break
Session 6 : Molecular mechanisms and techniques-2 Chair: Lan-Tao Gou [Principal Investigator, SIBCB]	
10:55-11:10 O-24	Enzymes' behavior in highly crowded membrane-less compartments Paola Laurino [Assistant Professor, OIST]
11:10-11:25 O-25	Mapping epitranscriptome of full-length single RNA molecules Hyeshek Chang [Assistant Professor, IMBG]
11:25-11:40 O-26	MutS stimulates the MutL-DNA binding to load a MutL sliding clamp on DNA Jiaquan Liu [Principal Investigator, SIBCB]
11:40-11:55 O-27	Dynamic DNA shortening by telomere binding protein Cdc13 Jing-Jer Lin [Professor, IBMB]
11:55-12:10 O-28	Structural dissection of human glucose transporter folding reveals evolutionary balancing between foldability and functionality Tae-Young Yoon [Professor, IMBG]

12:10-13:25	Lunch
13:25-14:45	Young Scientist Session/Student Session at Zoom breakout room Young Scientist Session: Breakout room 1 Student Session: Breakout room 2
14:45-15:00	Break
15:00-17:00	Poster discussion at Remo, virtual event platform
17:00-17:10	Instructions of voting for Best Presenter/Discusser Award Manabu Ozawa [Associate Professor, IMSUT]
-18:30	Deadline for voting

Day3: October 29 (Fri.)

09:25-09:30	Instructions Manabu Ozawa [Associate Professor, IMSUT]
Session 7 : Inflammation, infection and immunity Chair: Guangchuan Wang [Professor, SIBCB]	
09:30-09:45 O-29	Essential roles of chaperone proteins in controlling type I IFN interferon induction Helene Minyi Liu [Associate Professor, IBMB]
09:45-10:00 O-30	SARS-CoV-2 RNA polymerase: Structure, function and inhibition Quan Wang [Assistant Professor, SIAIS, ShanghaiTech University/National Center for Protein Science, Shanghai (NCPSS)]
10:00-10:15 O-31	Molecular mechanism of glycan receptor recognition by mumps virus Takao Hashiguchi [Professor, INFRONT]
10:15-10:30 O-32	A capsid with a twist: Assembly mechanism of the pleomorphic immature poxvirus scaffold Matthias Wolf [Professor, OIST]
10:30-10:40	Break
10:40-10:50	Memorial of Ken-ichi Arai Makoto Nakanishi [Vice Dean/Professor, IMSUT]
10:50-11:35	Ken-ichi Arai Award Lecture Physiological roles and molecular mechanisms of autophagy-dependent and independent degradation systems in vertebrates Hideaki Morishita [Lecturer, Juntendo University Graduate School of Medicine]
11:35-11:45	Break
11:45-12:05	Award ceremony of Best Presenter/Discusser Award Yuji Yamanashi [Dean/Professor, IMSUT]
12:05-12:15	Greetings from next host institution Haitao Yang [Executive Director, SIAIS, ShanghaiTech University]
12:15-12:20	Closing remarks Makoto Nakanishi [Vice Dean/Professor, IMSUT]