

第1日目11月25日(火)
1S1 第1会場(1階メインホール) 9:00-11:30 [E
Molecular Biology of Aging and Age-Related Disorders
Organizers: Eisuke Nishida (Graduate School of Biostudies, Kyoto University) Eiji Hara (Div. of Cancer Biol., Cancer Institute, JFCR)
1S1-1 [9:0 Mechanisms of life-span regulation by environmental stresses in C. elegans Masaharu Uno, Eisuke Nishida (Graduate School of Biostudies, Kyoto University)
1\$1-2
The roles of cellular senescence in aging and cancer Akiko Takahashi, Eiji Hara (Div. of Cancer Biol., Cancer Institute, JFCR)
1\$1-3
Hypoxia response and age-related macular degeneration Toshihide Kurihara (Dept. of Ophthalmol., Med. Sch., Keio Univ.)
1\$1-4 [10:3
Progeroid syndrome as a model of aging-related metabolic disorders Koutaro Yokote¹, Takahiko Shimizu², Akira Shimamoto³, Minoru Takemoto¹ (¹Dept. of Med., Grad. Sch. of Med. Chiba Univ., ²Dept. of Adv. Aging Med., Grad. Sch. of Med. Chiba Univ., ³Dept. of Cell. Mol. Biol., Grad. Sch. of Biomed. Health Sci., Hiroshima Univ)
1\$1-5
Longevity mechanisms in the naked mole rat and other long-lived rodent species Vera Gorbunova, Andrei Seluanov (University of Rochester)
100 第2年(2世2年)
1S2 第2会場 (3階 301) 9:00-11:30 [E
Gut Microbiota on the Host Physiology and Pathology Organizers: Hiroshi Ohno (RIKEN IMS)
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Gut Microbiota on the Host Physiology and Pathology Organizers: Hiroshi Ohno (RIKEN IMS) Naoko Ohtani (Tokyo University of Science) 1S2-1 Th17 induction by epithelial-adhering intestinal microbes Kenya Honda 136, Koji Atarashi 135, Takeshi Tanue 1, Minoru Ando 2, Nobuhiko Kamada 4, Yuji Nagano 1, Akemi Imaoka 2, Seiko Narushima 1, Gabriel Nunez 1, Yoshinori Umesaki 2 (¹RIKEN IMS, ²Yakult Central Institute for Microbiological Research, ³Keio University, Sch. of Med., 4The University of Michigan Medical School, 5JST PREST 5JST, CREST) 1S2-2 Regulation of gut microbiota by Foxp3 and IgA
Gut Microbiota on the Host Physiology and Pathology Organizers: Hiroshi Ohno (RIKEN IMS) Naoko Ohtani (Tokyo University of Science) 1S2-1 Th17 induction by epithelial-adhering intestinal microbes Kenya Honda ^{1,3,6} , Koji Atarashi ^{1,3,5} , Takeshi Tanue ¹ , Minoru Ando ² , Nobuhiko Kamada ⁴ , Yuji Nagano ¹ , Akemi Imaoka ² , Seiko Narushima ¹ , Gabriel Nunez ⁴ , Yoshinori Umesaki ² (¹RIKEN IMS, ²Yakult Central Institute for Microbiological Research, ³Keio University, Sch. of Med., ⁴The University of Michigan Medical School, ⁵ JST PREST ⁶ JST, CREST) 1S2-2 [9:3 Regulation of gut microbiota by Foxp3 and IgA Shimpei Kawamoto, Mikako Maruya, Sidonia Fagarasan (Lab. for Mucosal Immunity, IMS, RIKEN)
Gut Microbiota on the Host Physiology and Pathology Organizers: Hiroshi Ohno (RIKEN IMS) Naoko Ohtani (Tokyo University of Science) 1S2-1 [9:0 Th17 induction by epithelial-adhering intestinal microbes Kenya Honda ^{1,36} , Koji Atarashi ^{1,35} , Takeshi Tanue ¹ , Minoru Ando ² , Nobuhiko Kamada ⁴ , Yuji Nagano ¹ , Akemi Imaoka ² , Seiko Narushima ¹ , Gabriel Nunez ⁴ , Yoshinori Umesaki ² (¹RIKEN IMS, ²Yakult Central Institute for Microbiological Research, ³Keio University, Sch. of Med., ⁴The University of Michigan Medical School, ⁵JST PREST °JST, CREST) 1S2-2 [9:3 Regulation of gut microbiota by Foxp3 and IgA Shimpei Kawamoto, Mikako Maruya, Sidonia Fagarasan (Lab. for Mucosal Immunity, IMS, RIKEN) 1S2-3 [10:0 The host and its microbiome in health and disease
Gut Microbiota on the Host Physiology and Pathology Organizers: Hiroshi Ohno (RIKEN IMS) Naoko Ohtani (Tokyo University of Science) 1S2-1 [9:0] Th17 induction by epithelial-adhering intestinal microbes Kenya Honda 1:36, Koji Atarashi 1:25, Takeshi Tanue 1, Minoru Ando2, Nobuhiko Kamada4, Yuji Nagano 1, Akemi Imaoka2, Seiko Narushima1, Gabriel Nunez4, Yoshinori Umesaki2 (¹RIKEN IMS, ²Yakult Central Institute for Microbiological Research, ³Keio University, Sch. of Med., ⁴The University of Michigan Medical School, ⁵JST PREST 6¹JST, CREST) 1S2-2 [9:3] Regulation of gut microbiota by Foxp3 and IgA Shimpei Kawamoto, Mikako Maruya, Sidonia Fagarasan (Lab. for Mucosal Immunity, IMS, RIKEN) 1S2-3 [10:0] The host and its microbiome in health and disease Eran Elinav (Dept. of Immun, Weizmann Institute of Science)
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Agency (JST), CREST, ⁵LSI Medience Corp.)



183 第3会場 (3階 302)	9:00-11:30 [E]
Synthetic Study to Uncover Hierarchical Ordering of Biological Systems	
Organizers: Daisuke Kiga (Tokyo Tech, Dept Comp Intel and Sys Sci/ WPI-ELSI) Kaoru Sugimura (WPI-iCeMS, Kyoto University)	
183-1	[9:00]
Synthetic approach across layers of life: Cell population diversification programmed by arti circuit	ficial genetic
Daisuke Kiga (Tokyo Tech, Dept Comp Intel and Sys Sci/ WPI-ELSI)	
183-2	[9:15]
Designing protein molecules from scratch Nobuyasu Koga ¹² (¹ IMS · CIMoS, ² JST · PRESTO)	
183-3	[9:40]
Single cell analysis through development of proteins for imaging and manipulation Takeharu Nagai (ISIR, Osaka Univ.)	
183-4	[10:05]
Modular protein domains for designing cellular circuits and new protein folds	
Roman Jerala (National Institute of Chemistry)	
183-5	[10:35]
Sensitivity of chemical reaction networks: a structural approach	
Atsushi Mochizuki ¹² , Bernold Fiedler ³ (¹ Theor. Biol. Lab. RIKEN, ² CREST, JST, ³ Inst. for Math., Fr	ee Univ. Berlin)
183-6	[11:00]
Human iPSC-derived organ bud based approaches towards functional organ generation Takanori Takebe ¹² (¹ Dept. of Reg. Med., Grad. Sch. of Med., Yokohama City Univ., ² PRESTO, JST)
Conclusion Kaoru Sugimura (WPI-iCeMS, Kyoto University)	[11:25]
Kaoru Sugimura (WPI-iCeMS, Kyoto University) 1815 第15会場(5階 501)	[11:25] 9:00-11:30 [E]
Kaoru Sugimura (WPI-iCeMS, Kyoto University) 1S15 第15会場(5階 501) Shu Takeda Presents (Co-sponsored by JST CREST)	
Kaoru Sugimura (WPI-iCeMS, Kyoto University) 1S15 第15会場(5階 501) Shu Takeda Presents (Co-sponsored by JST CREST) Interacting Organ Systems Governing Whole Body Homeostasis	9:00-11:30 [E]
Kaoru Sugimura (WPI-iCeMS, Kyoto University) 1S15 第15会場(5階 501) Shu Takeda Presents (Co-sponsored by JST CREST) Interacting Organ Systems Governing Whole Body Homeostasis	9:00-11:30 [E]
Kaoru Sugimura (WPI-iCeMS, Kyoto University) 1S15 第15会場(5階 501) Shu Takeda Presents (Co-sponsored by JST CREST) Interacting Organ Systems Governing Whole Body Homeostasis Organizer: Shu Takeda (Dept. of Phy. Cell Biol., Grad. Sch. of Med. Den. Sci., Tokyo Med. Den. 1 1S15-1	9:00-11:30 [E] Univ.)
Kaoru Sugimura (WPI-iCeMS, Kyoto University) 1S15 第15会場(5階501) Shu Takeda Presents (Co-sponsored by JST CREST) Interacting Organ Systems Governing Whole Body Homeostasis Organizer: Shu Takeda (Dept. of Phy. Cell Biol., Grad. Sch. of Med. Den. Sci., Tokyo Med. Den. 1 1S15-1 Control of bone remodeling by central nervous system	9:00-11:30 [E] Univ.)
Kaoru Sugimura (WPI-iCeMS, Kyoto University) 1S15 第15会場(5階 501) Shu Takeda Presents (Co-sponsored by JST CREST) Interacting Organ Systems Governing Whole Body Homeostasis Organizer: Shu Takeda (Dept. of Phy. Cell Biol., Grad. Sch. of Med. Den. Sci., Tokyo Med. Den. IS15-1 Control of bone remodeling by central nervous system Shu Takeda (Dept. of Phy. Cell Biol., Grad. Sch. of Med. Den. Sci., Tokyo Med. Den. Univ.)	9:00-11:30 [E] Univ.) [9:00]
Kaoru Sugimura (WPI-iCeMS, Kyoto University) 1S15 第15会場(5階501) Shu Takeda Presents (Co-sponsored by JST CREST) Interacting Organ Systems Governing Whole Body Homeostasis Organizer: Shu Takeda (Dept. of Phy. Cell Biol., Grad. Sch. of Med. Den. Sci., Tokyo Med. Den. IS15-1 Control of bone remodeling by central nervous system Shu Takeda (Dept. of Phy. Cell Biol., Grad. Sch. of Med. Den. Sci., Tokyo Med. Den. Univ.) 1S15-2 Microglia Surveillance of Neuron-Synapses Junichi Nabekura ¹² , Akiko Miyamoto ¹ , Hiroaki Wake ¹² (¹ National Institute for Physiological Science	9:00-11:30 [E] Univ.) [9:00]
Kaoru Sugimura (WPI-iCeMS, Kyoto University) 1S15 第15会場(5階 501) Shu Takeda Presents (Co-sponsored by JST CREST) Interacting Organ Systems Governing Whole Body Homeostasis Organizer: Shu Takeda (Dept. of Phy. Cell Biol., Grad. Sch. of Med. Den. Sci., Tokyo Med. Den. IS15-1 Control of bone remodeling by central nervous system Shu Takeda (Dept. of Phy. Cell Biol., Grad. Sch. of Med. Den. Sci., Tokyo Med. Den. Univ.) 1S15-2 Microglia Surveillance of Neuron-Synapses Junichi Nabekura ¹² , Akiko Miyamoto ¹ , Hiroaki Wake ¹² (¹ National Institute for Physiological Science University of Advanced Studies)	9:00-11:30 [E] Univ.) [9:00] [9:24] es, ² Graduate
Kaoru Sugimura (WPI-iCeMS, Kyoto University) 1S15 第15会場(5階 501) Shu Takeda Presents (Co-sponsored by JST CREST) Interacting Organ Systems Governing Whole Body Homeostasis Organizer: Shu Takeda (Dept. of Phy. Cell Biol., Grad. Sch. of Med. Den. Sci., Tokyo Med. Den. IS15-1 Control of bone remodeling by central nervous system Shu Takeda (Dept. of Phy. Cell Biol., Grad. Sch. of Med. Den. Sci., Tokyo Med. Den. Univ.) 1S15-2 Microglia Surveillance of Neuron-Synapses Junichi Nabekura ¹² , Akiko Miyamoto ¹ , Hiroaki Wake ¹² (¹ National Institute for Physiological Science University of Advanced Studies)	9:00-11:30 [E] Univ.) [9:00] [9:24] es, ² Graduate [9:48]
Kaoru Sugimura (WPI-iCeMS, Kyoto University) 1S15 第15会場(5階 501) Shu Takeda Presents (Co-sponsored by JST CREST) Interacting Organ Systems Governing Whole Body Homeostasis Organizer: Shu Takeda (Dept. of Phy. Cell Biol., Grad. Sch. of Med. Den. Sci., Tokyo Med. Den. IS15-1 Control of bone remodeling by central nervous system Shu Takeda (Dept. of Phy. Cell Biol., Grad. Sch. of Med. Den. Sci., Tokyo Med. Den. Univ.) 1S15-2 Microglia Surveillance of Neuron-Synapses Junichi Nabekura ¹² , Akiko Miyamoto ¹ , Hiroaki Wake ¹² (¹National Institute for Physiological Science University of Advanced Studies) 1S15-3 Intravital imaging revealing a dynamic cell system linking bone and immune systems in vivo	9:00-11:30 [E] Univ.) [9:00] [9:24] es, ² Graduate [9:48]
Kaoru Sugimura (WPI-iCeMS, Kyoto University) 1815 第15会場(5階 501) Shu Takeda Presents (Co-sponsored by JST CREST) Interacting Organ Systems Governing Whole Body Homeostasis Organizer: Shu Takeda (Dept. of Phy. Cell Biol., Grad. Sch. of Med. Den. Sci., Tokyo Med. Den. I 1815-1 Control of bone remodeling by central nervous system Shu Takeda (Dept. of Phy. Cell Biol., Grad. Sch. of Med. Den. Sci., Tokyo Med. Den. Univ.) 1815-2 Microglia Surveillance of Neuron-Synapses Junichi Nabekura ¹² , Akiko Miyamoto ¹ , Hiroaki Wake ¹² (¹National Institute for Physiological Science University of Advanced Studies) 1815-3 Intravital imaging revealing a dynamic cell system linking bone and immune systems in viv Masaru Ishii (Dept. of Immunol. Cell Biol., Grad. Sch. Med. Frontier Biosci., Osaka Univ.)	9:00-11:30 [E] Univ.) [9:00] [9:24] es, ² Graduate [9:48]
Kaoru Sugimura (WPI-iCeMS, Kyoto University) 1815 第15会場(5階 501)	9:00-11:30 [E] Univ.) [9:00] [9:24] es, ² Graduate [9:48]
Kaoru Sugimura (WPI-iCeMS, Kyoto University) 1815 第15会場(5階 501) Shu Takeda Presents (Co-sponsored by JST CREST) Interacting Organ Systems Governing Whole Body Homeostasis Organizer: Shu Takeda (Dept. of Phy. Cell Biol., Grad. Sch. of Med. Den. Sci., Tokyo Med. Den. I 1815-1 Control of bone remodeling by central nervous system Shu Takeda (Dept. of Phy. Cell Biol., Grad. Sch. of Med. Den. Sci., Tokyo Med. Den. Univ.) 1815-2 Microglia Surveillance of Neuron-Synapses Junichi Nabekura ^{1,2} , Akiko Miyamoto ¹ , Hiroaki Wake ^{1,2} (¹ National Institute for Physiological Science University of Advanced Studies) 1815-3 Intravital imaging revealing a dynamic cell system linking bone and immune systems in viv Masaru Ishii (Dept. of Immunol. Cell Biol., Grad. Sch. Med. Frontier Biosci., Osaka Univ.) 1815-4 Pathogenesis of atopic dermatitis: interplay among the barrier, allergy, and pruritus as a tri	9:00-11:30 [E] Univ.) [9:00] [9:24] es, ² Graduate [9:48]



1S15-6 [11:00] Glut1-dependent glucose uptake in osteoblasts is necessary for bone formation before and after birth and whole-body glucose homeostasis Gerard Karsenty (Columbia University Medical Center) 第16会場(5階 502) 9:00-11:30 (E) 1816 Takehiko Kobayashi Presents Regeneration of Genome Organizer: Takehiko Kobayashi (Natl. Inst. of Genetics / Sokendai) Introduction [9:00] Takehiko Kobavashi (Natl. Inst. of Genetics / Sokendai) [9:05] 1S16-1 Instability of repetitive sequence and cellular senescence Takehiko Kobayashi^{1,2}, Kimiko Saka¹ (¹Natl, Inst. of Genetics, ²Sokendai) [9:33] 1816-2 Cell-autonomous correction of ring chromosomes by compensatory uniparental disomy in human induced pluripotent stem cells Yohei Hayashi¹, Shinya Yamanaka^{1,2} (¹Gladstone Institute of Cardiovascular Disease, ²Center for iPS Cell Research and Application, Kyoto University) 1S16-3 [10:02] Oxidative DNA damage and its repair system: implications for de novo germline mutations Mizuki Ohno (Dept. of Med. Biophys. & Radiation Biol., Faculty of Med. Sci., Kyushu Univ.) [10:31] 1S16-4 DNA damage repair and neurodegenerative diseases Hitoshi Okazawa (TMDU, Medical Research Institute/Center for Brain Integration Research) 1S16-5 [11:00] Suppression of somatic expansion delays motor decline in a mouse model of Huntingtons disease Cynthia T. Mcmurray, Helen Budworth, Faye Harris, Paul T. Williams, Do-Yup Lee, Jens Pahnke, Bartosz Szczesny, Sankar Mitra, Karina Acevedo-Torres, Sylvette Ayala-Pena (Lawrence Berkeley National Lab.) [11:30] Takehiko Kobayashi (Natl. Inst. of Genetics / Sokendai) **1S17** 第17会場(5階 503) 9:00-11:30 (E) **Tamotsu Yoshimori Presents** Inside Cells, Membranes Move, Fission, and Fuse to Maintain Life Organizer: Tamotsu Yoshimori (Graduate School of Frontier Biosciences / Medicine, Osaka University) Introduction [9:00] Tamotsu Yoshimori (Graduate School of Frontier Biosciences / Medicine, Osaka University) [9:03] 1S17-1 Regulation of myosin V interaction with cargoes Richard G Yau, Yui Jin, Sara Wong, Lois Weisman (Life Sciences Institute, Department of Cell and Developmental Biology, University of Michigan) 1S17-2 [9:24] Resolving the contributions of the actin machinery to endocytic membrane bending and vesicle formation Wanda Kukulski¹², Andrea Picco¹, Tanja Specht¹, Hetty Manenschijn¹, John A. G. Briggs¹², Marko Kaksonen¹² (¹Cell Biology and Biophysics Unit, EMBL Heidelberg, ²Structural and Computational Biology Unit, EMBL Heidelberg)



1517-3 [9:45]

Dynamic Regulation of Autophagy and Endocytosis for Cell Remodeling during Early Development in C. elegans

Miyuki Sato¹, Ryosuke Konuma², Kotone Tomura², Ken Sato² (¹Lab. of Mol. Memb. Biol., IMCR, Gunma Univ., ²Lab. of Mol. Traffic, IMCR, Gunma Univ.)

1817-4 [10:06]

Analysis on the autophagosome formation site

Maho Hamasaki¹², Akiko Nezu², Tamotsu Yoshimori¹² (¹Dept. of Genetics, Grad. Sch. of Med., Osaka University, ²Dept. of Intracellular Memb. Dynamics, Grad. Sch. of Frontier Biosciences)

1817-5

The small GTPase Arf1 modulates mitochondrial morphology and function

Karin B. Ackema¹, Jürgen Hench², Stefan Böckler³, Shyi Chyi Wang⁴, Ursula Sauder⁵, Heidi Mergentaler¹, Benedikt Westermann³, Frédéric Bard¹, Stephan Frank², **Anne Spang**¹ ('Growth and Development, Biozentrum, University of Basel, ²Division of Neuropathology, Institute of Pathology, University Hospital Basel, ³Cell Biology, University of Bayreuth, ⁴Institute for Molecular and Cell Biology, ⁵Microscopy Center, Biozentrum, University of Basel)

1S17-6 [10:46]

Catching vesicles at the Golgi complex

Suzanne Pfeffer (Dept. Biochemistry, Stanford University School of Medicine)

1\$17-7 [11:07]

Rab6 is essential for plural apical transport pathways but not for basolateral transport pathway in Drosophila photoreceptors

Nozomi Iwanami, Takunori Satoh, Yuri Nakamura, Jiguan Liu, **Akiko Satoh** (Graduate School of Integrated Arts and Sciences, Hiroshima University)

Conclusion [11:28]

Maho Hamasaki¹² (¹Dept. of Genetics, Grad. Sch. of Med., Osaka University, ²Dept. of Intracellular Memb. Dynamics, Grad. Sch. of Frontier Biosciences)



第2日目11月26日(水)	
2S1 第1会場(1階メインホール)	9:00-11:30 [E]
Mitinori Saitou Presents	
Programming/Reprogramming Stem Cell Fate	
Organizer: Mitinori Saitou (Graduate School of Medicine, Kyoto University)	
Introduction	[9:00]
Mitinori Saitou (Graduate School of Medicine, Kyoto University)	
2S1-1 Epigenetic Control of Mammalian Germ Line and Early Embryonic Development	[9:10]
Antoine H.F.M. Peters (Friedrich Miescher Institute for Biomedical Research, Switzerland)	
2S1-2	[9:45]
Epigenetic abnormalities associated with somatic cell nuclear transfer in mice	
Atsuo Ogura ^{1,2} (¹RIKEN BioResource Center, ²Grad. Sch. of Life Environ. Sci., Univ. of Tsukuba)	
281-3	[10:20]
The Epigenetic Instability of the Pluripotent and Somatic Cell States Jacob Hanna (Weizmann Institute of Science)	
2\$1-4	[10:55]
Programming stem cells toward the kidney	[10:33]
Ryuichi Nishinakamura, Atsuhiro Taguchi (Inst. Mol. Embryol. Genet., Kumamoto Univ.)	
2S2 第2会場 (3階 301)	9:00-11:30 [E]
Toru Takumi Presents	
Molecular Biology of Brain and Mind	
Organizer: Toru Takumi (RIKEN • BSI)	
Introduction	[9:00]
Toru Takumi (RIKEN · BSI)	
282-1	[9:03]
$\label{thm:molecular approaches towards understanding the pathophysiology of mental disorders \\ \mathbf{Toru} \ \mathbf{Takumi} \ (\mathrm{RIKEN} \cdot \mathrm{BSI})$	
252.2	[0.45]
2\$2-2	(9:15)
Supramolecular organisation of the synapse	[פו:פ]
	[9:15]
Supramolecular organisation of the synapse Seth Grant (Genes to Cognition Programme, Edinburgh University, UK) 252-3	[9:15]
Supramolecular organisation of the synapse Seth Grant (Genes to Cognition Programme, Edinburgh University, UK)	
Supramolecular organisation of the synapse Seth Grant (Genes to Cognition Programme, Edinburgh University, UK) 2S2-3 Probing integrin function in brain networks	
Supramolecular organisation of the synapse Seth Grant (Genes to Cognition Programme, Edinburgh University, UK) 2S2-3 Probing integrin function in brain networks Yukiko Goda (RIKEN Brain Science Institute)	[9:50] [10:20]
Supramolecular organisation of the synapse Seth Grant (Genes to Cognition Programme, Edinburgh University, UK) 2S2-3 Probing integrin function in brain networks Yukiko Goda (RIKEN Brain Science Institute) 2S2-4 Synaptic scaffolding proteins, NMDA receptor function, and autism spectrum disorders Eunjoon Kim¹² (¹Center for Synaptic Brain Dysfunctions, Inst. of Basic Sci. (IBS), ²Dept. of Biol. Sci	[9:50] [10:20]

Ofer Yizhar (Weizmann Institute of Science, Rehovot, Israel)



第3会場(3階302) **2S3** 9:00-11:30 (E) **Yuichiro Watanabe Presents Diverse Gene Regulation Systems for Environmental Adaptation** Organizer: Yuichiro Watanabe (Graduate School of Arts and Sciences, The University of Tokyo) Introduction [9:00] Yuichiro Watanabe (Graduate School of Arts and Sciences, The University of Tokyo) [9:05] Epitranscriptome, the chemical modification on mRNA, in mammalian circadian rhythms Hitoshi Okamura, Jean-Michel Fustin (Dept. System Bio., Grad. Sch. Pharm. Sci., Kyoto Univ.) 2S3-2 [9:30] Linking mRNA methylation and 3' end processing to plant development Gordon Simpson¹² (¹Division of Plant Sciences, College of Life Sciences, Dundee University, Scotland, UK, ²Cell & Molecular Sciences, The James Hutton Institute, Invergowrie, Dundee, Scotland, UK.) 2S3-3 [10:00] Genetic architecture of Arabidopsis circadian clock system Norihito Nakamichi (WPI-ITbM, Nagova Univ.) 2S3-4 [10:25] Transcriptional and post-transcriptional regulation mediate the adaptation of the circadian clock to temperature changes Osnat Bartok, Naveh Evantal, Sebastian Kadener (Biological Chemistry Department, Silberman Institute of Life Sciences, The Hebrew University of Jerusalem) 2S3-5 [10:55] Transcriptome dynamics under fluctuating field Atsushi J. Nagano^{1,2} (¹Cen. for Ecol. Res., Kyoto Univ., ²JST PRESTO) Discussion [11:20] 2S15 第15会場(5階 501) 9:00-11:30 [E] Towards Establishment of Systematical Structure-Function Analysis Technology of Membrane Proteins Organizers: Osamu Nureki (Graduate School of Science, The University of Tokyo) Atsuko Yamashita (Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama University) 2S15-1 [9:00] Improving Major Facilitator Superfamily transporters for biofuel production Jamie Cate¹²³ (¹Dept. Molecular and Cell Biology, UC Berkeley, ²Dept. Chemistry, UC Berkeley, ³Energy Biosciences Institute) 2S15-2 [9:35] Molecular Mechanisms of Membrane Channel and Transporter Osamu Nureki (Graduate School of Science, The University of Tokyo) 2S15-3 [9:58] Structural basis for the drug extrusion mechanism by a MATE multidrug transporter Yoshiki Tanaka¹³, Christopher J. Hipolito², Ryuichiro Ishitani¹, Hiroaki Suga², Osamu Nureki¹ (¹Dept. of Bioph. and Bioch., Grad. Sch. of Sci., Univ. of Tokyo, Dept. of Chem., Grad. Sch. of Sci., Univ. of Tokyo, Grad. Sch. of Bio. Sci., NAIST) 2S15-4 [10:21] In silico drug design system based on the structure of drug transporter substrates Hiroyuki Kusuhara, Kazuya Maeda (Grad. Sch. of Pharm. Sci., Univ. of Tokyo)

[9:03]

[10:28]



2S16-1

2S16-4

2S15-5 [10:44]

Towards Establishment of Systematic Structure Analysis Technology for G-protein Coupled Receptors Takeshi Murata¹² (¹Dept. of Chem., Grad. Sch. of Sci., Chiba Univ., ²PRESTO, IST)

Takeshi Murata (Dept. of Chem., Grad. Sch. of Sch., Chiba Univ., FRESTO, JST)

2815-6 [11:07]

Structure studies on membrane proteins using X-ray free electron laser

So Iwata¹², Kanako Kimura¹, Tatsurou Shimamura¹, Eriko Nango², Tomoyuki Tanaka², Tomohiro Nishizawa³, Osamu Nureki³, Rie Tanaka², Mamoru Suzuki³², Tetsuya Masuda²², Michihiro Sugahara², Tono Kensuke³, Yasumasa Joti³, Takashi Kameshima³, Changyong Song², Takaki Hatsui², Makina Yabashi², Keitaro Yamashita², Toshiaki Hosaka⁴, Hiroaki Tanabe⁴, Masakatsu Hato⁴, Toshi Arima⁴, Someya Tomomi⁴, Mikako Shirouzu⁴, Dongqing Pan³, Toru Nakatsu⁵, Hiroaki Kato⁵, Eiichi Mizohata⁶, Yu Kitago⁻, Junichi Takagi⁻, Yasuaki Yamanaka¹, Takaaki Fujiwara¹, Ayumi Yamashita², Jyun Kobayashi² (¹Graduate School of Medicine, Kyoto University, ²Riken Spring-8 Centre, ³Japan Synchrotron Research Institute, ⁴RIKEN Center for Life Science Technologies, ⁵Graduate School of Pharmaceutical Sciences, Kyoto University, ⁵Graduate School of Engineering, Osaka University, ¹Tnstitute for Protein Research, Osaka University, ⁵Graduate School of Science, the University of Tokyo, ⁵Graduate School of Agriculture, Kyoto University)

2S16	第16会場(5階 502)	9:00-11:30 [E]

Yoshiko Takahashi Presents

Developmental Biology: Cells-to-organs and biodiversity

Organizer: Yoshiko Takahashi (Dept. of Zoology, Grad. Sch. of Sci., Kyoto Univ.)

Introduction [9:00)]
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Yoshiko Takahashi (Dept. of Zoology, Grad. Sch. of Sci., Kyoto Univ.)	

Cell communications during skin pigmentation

Yoshiko Takahashi¹, Hidetaka Murai^{1, 2}, Kenichiro Sakai², Ryosuke Tadokoro¹, (¹Dept. of Zoology, Grad. Sch. of Sci., Kyoto Univ., ²Dept. of Bio. Sci., NAIST)

Kyoto Univ., *Dept. of Bio. Sci., NAIST) 2S16-2 [9:28]

Trunk or tail: the changing lives of axial progenitors

Moises Mallo (Instituto Gulbenkian de Ciencia, Oeiras, Portugal)

2\$16-3

Interaction between organisms and the environment: developmental regulation of polyphenism

Teiya Kijimoto, Armin P. Moczek (Dept. of Biology, Indiana Univ.)

Dynamics of mouse sperm stem cells: How is the tissue homeostasis maintained?

Shosei Yoshida (Div. of Germ Cell Biol., Natl. Inst. Basic Biol.)

2816-5 [10:53]

The fluid dynamics of collective cell migration

Roberto Mayor (Dept. Cell and Dev. Biol., University College London)

Conclusion [11:28]

Shosei Yoshida (Div. of Germ Cell Biol., Natl. Inst. Basic Biol.)

2S17 第17会場(5階 503) 9:00-11:30 [E]

Minoru Yoshida Presents

At the Molecular Crossroad of Metabolism and Epigenetics

Organizer: Minoru Yoshida (RIKEN)

Intro	duct	ion	[9:00]	
3.51	***		(DILETAI)	

Minoru Yoshida (RIKEN)

Sirtuin-catalyzed deacylation: Interdependence of metabolism and the epigenome

John M. Denu (Dept. of Biomolecular Chemistry, and the Wisconsin Institute for Discovery, Univ. of Wisconsin, Madison, USA)

[9:02]



2\$17-2

PKA-dependent Association of Histone Demethylase JMJD1A with SWI/SNF and PPAR y Alters Chromatin Dynamics and Thermogenesis in Brown Adipocytes

Juro Sakai (Div. of Metabolic Medicine, RCAST)

2S17-3 [10:09]

Epigenomics in Chronic Diseases

Takeo Kubota¹, Kunio Miyake¹, Natsuyo Hariya¹, Kazuki Mochizuki² (¹Department of Epigenetic Medicine, Faculty of Medicine, University of Yamanashi, ²Department of Local Produce and Food Sciences, Faculty of Life and Environmental Sciences, University of Yamanashi)

2\$17-4

Function of methionine adenosyltransferase II in plasma cell differentiation

Kyoko Ochiai¹², Yasutake Katoh¹, Hiroki Shima¹², **Kazuhiko Igarashi**¹² (¹Dept. Biochem., Grad. Sch. of Med., Tohoku Univ., ²CREST, IST)

2\$17-5

Intestinal microbiota regulates the mucosal immune system through epigenetic modifications

Koji Hase (Dept. of Biochem., Faculty of Pham., Univ. of Keio)



第3日目11月27日(木) 9:00-11:30 [E] 3\$1 第1会場(1階メインホール) Mikiko C. Siomi Presents Molecular Biology of Non-coding RNAs and its Application Organizer: Mikiko C. Siomi (Dept. of Biol. Sci. Grad. Sch. of Sci. Univ. of Tokyo) Introduction [9:00] Mikiko C. Siomi (Dept. of Biol. Sci. Grad. Sch. of Sci. Univ. of Tokyo) [9:02] 3S1-1Transcriptome wide mapping of Msi1-RNA interaction in neural stem cell Masato Yano¹, Robert B. Darnell², Hideyuki Okano¹ (¹Keio University, ²The Rockefeller University) 3\$1-2 [9:24] The Biology of CRISPRs: From Genome Defense to Genomic Engineering Jennifer A. Doudna (Dept. of Molecular and Cell Biology & Chemistry, University of California, Berkeley) 3\$1-3 [9:59] The critical role of miRNAs at the edge of Hox-code during skeletal development Hiroshi Asahara^{1,2,4,5}, Tempei Sato^{1,2,3}, Masafumi Inui² (¹Dep. of Syst. BioMed., Grad. Sch. of Med., Tokyo Med. Dent. Univ, ²Dep. of Syst. BioMed., Nat. Res. Inst. for Child Health and Dev., ³JSPS research fellow, ⁴CREST, JST, ⁵TSRI, USA) 3S1-4 [10:22] Reconstitution of Death Star, a RISCy Business Qinghua Liu (Dept. of Biochemistry, UT Southwestern Medical Center, USA) 3\$1-5 [10:45] Specification of cluster loci in the genome for piRNA production Zhao Zhang¹, Phillip Zamore², Zhiping Weng³, William Theurkauf⁴ (¹Department of Embryology, Carnegie Institution for Science, ²Department of Biochemistry and Molecular Pharmacology and HHMI, University of Massachusetts Medical School, ³Program in Bioinformatics and Integrative Biology, University of Massachusetts Medical School, ⁴Program in Molecular Medicine, University of Massachusetts Medical School) [11:08] 3**\$1-6** Biogenesis of PIWI-interacting small RNAs in Drosophila Mikiko C. Siomi (Dept. of Biol. Sci., Grad. Sch. of Sci., Univ. of Tokyo) 3\$2 第2会場(3階 301) 9:00-11:30 (E) Stem Cell Production and Organ Regeneration as an Adaptive Reprogramming Strategy Organizers: Keiko Sugimoto (RIKEN CSRS) Yosuke Tamada (National Institute for Basic Biology) [9:00] Introduction Keiko Sugimoto (RIKEN CSRS) [9:05] A qualitative shift of adult pluripotent stem cell state during regeneration in planarians Norito Shibata, Hayoung Lee, Kiyokazu Agata (Grad. Sch. of Sci., Kyoto Univ.) [9:30] What determines differences in cardiac regenerative abilities between mouse and newts? Takashi Takeuchi, Shoji Tane, Hitomi Okayama, Aiko Ikenishi, Yuki Amemiya, Akira Matsumoto, Ayumi Myouga,

Syohei Azuma, Toshinori Hayashi (Sch. of Life Sci., Faculty of Med., Tottori Univ.)



3**S**2-3 [9:55] Epigenome analysis of the stem-cell formation in the moss Physcomitrella patens Yosuke Tamada¹², Tetsuya Kurata³⁴, Masayuki Hattori⁵⁶, Yutaka Hayano⁵⁷, Shin Oya⁵, Yasuhiro Kamei²⁶, Yuji Hiwatashi¹², Yukiko Kabeya¹, Tomoaki Nishiyama³⁸, Takashi Muratal², Mitsuyasu Hasebe¹²³, (¹Div. Evol. Biol., Natl. Inst. Basic Biol., ²Sch. Life Sci., Grad. Univ. Adv. Stud., ³ERATO, JST, ⁴Grad. Sch. Biol. Sci., Nara Inst. Sci. Tech., ⁵Subaru Telescope, Natl. Astron. Obs. Jpn., ⁶SBI, Natl. Inst. Basic Biol., ⁷Sch. Phys. Sci., Grad. Univ. Adv. Stud., ⁸Adv. Sci. Res. Cntr., Kanazawa Univ.) [10:20] **3S2-4** Epigenetic control of cellular reprogramming in plants Momoko Ikeuchi, Akira Iwase, Keiko Sugimoto (RIKEN CSRS) 3\$2-5 [10:45] The Trajectory of Transdifferentiating Cells in the Plant Root Kenneth D Birnbaum, Idan Efroni, Tal Nawy, Alison Mello, Pui-Leng Ip, Ramin Rahni, Nicholas DelRose (Center for Genomics and Systems Biology, Biology Department, New York University) 9:00-11:30 [E] 3\$3 第3会場(3階 302) **Biological Evolution and Diversity** Organizers: Fumitoshi Ishino (Dept. of Epigenet., Med. Res. Inst., Tokyo Med. Dent. Univ.) Yoshihiko Umesono (Grad. Sch. of Life Sci., Univ. of Hyogo) 3\$3-1 [9:00] Diversity of head regenerative ability along the anterior-posterior axis among planarian species Yoshihiko Umesono (Grad, Sch. of Life Sci., Univ. of Hvogo) [9:25] The amphioxus and beyond: genome evolution for vertebrate innovations Jordi Garcia-Fernàndez (Departament de Genètica, Fac. Biologia, Universitat de Barcelona) [9:50] Mammalian Evolution Promoted by Exaptation of LTR Retrotransposons Fumitoshi Ishino¹, Tomoko Kaneko-Ishino² (¹Dept. of Epigenet., Med. Res. Inst., Tokyo Med. Dent. Univ., ²Sch. of Health Sci., Tokai Univ.) 3\$3-4 [10:15] Endogenization of betaretroviruses which are involved in placentation Takayuki Miyazawa¹, Yuki Nakaya² (¹Inst. for Virus Res., Kyoto Uni., ²Kyoto Prefect. Univ. of Medicine) 3\$3-5 [10:40] Role of retrotransposon in brain development and function Alysson Muotri (Univ. of California, San Diego) 3\$3-6 [11:05] Acquisition of genetic variability through interbreeding in Homo sapiens Ken-ichi Shinoda (Natl. Mus. of Nat. and Sci. Dept. Antrop.) 3\$15 第15会場(5階 501) 9:00-11:30 [E] Fumiko Tovoshima Presents Cell Fate Decision and Tissue Homeostasis by Symmetric and Asymmetric Cell Division Organizer: Fumiko Toyoshima (Inst. Virus Res., Kyoto Univ.) Introduction [9:00] Fumiko Toyoshima (Inst. Virus Res., Kyoto Univ.) 3\$15-1 [9:05] Molecular mechanisms for ECM-dependent oriented cell division

Fumiko Tovoshima (Inst. Virus Res., Kvoto Univ.)



3815-2 [9:30
Regulation of asymmetric cell division by Wnt signaling in C. elegans
Hitoshi Sawa ¹² (¹ NIG, ² Sokendai)
3\$15-3 [10:00
The feedback signaling from neurons to neural stem cells Atsunori Shitamukai ¹ , Tomomi Shimogori ² , Akihiro Goto ³ , Shinji Takada ⁴ , Michiyuki Matsuda ³ , Fumio Matsuzaki ¹ (¹RIKEN CDB , ²RIKEN BSI, ³Grad. Sch. of Biostudies., Kyoto Univ., ⁴Div. of Mol. and Dev. Biol., NIBB)
3815-4 [10:21
Cell fate control via asymmetric cell division in normal and malignant hematopoiesis Takahiro Ito (Dept. of Biochem. and Mol. Biol., Coverdell Center for Biomed. and Health Sci., Univ. of Georgia)
3\$15-5 [10:59]
Mechanism and Functions of Spindle Orientation in the Epidermis Lindsey Seldin, Terry Lechler (Departments of Dermatology and Cell Biology, Duke University Medical Center)
Conclusion [11:2]
Fumiko Toyoshima (Inst. Virus Res., Kyoto Univ.)
3S16 第16会場(5階 502) 9:00-11:30 [E]
Katsuhiko Shirahige Presents
Epigenetic Dysregulation and Disease
Organizer: Katsuhiko Shirahige (The University of Tokyo Institute of Molecular and Cellular Biosciences)
Introduction [9:00
Hiroyuki Aburatani (Genomescience, RCAST, Univ. of Tokyo)
3S16-1 [9:10 Mutations of epigenetic modifiers in cancer
Hiroyuki Aburatani (Genomescience, RCAST, Univ. of Tokyo)
3\$16-2 [9:3:
Epigenetic alterations that underlie gliomagenesis and gliomas progression
Akitake Mukasa (Dept. of Neurosurg., Faculty of Med., Univ. of Tokyo)
3S16-3 [10:00 Epigenetic regulation of stem cells in acute myeloid leukemia: Essential roles of the IDH mutation
Issay Kitabayashi (Div. Hematological Malignancy, Natl. Cancer Ctr. Res. Inst.)
3\$16-4 [10:28]
Congenital intellectual disability syndromes arising from mutations of epigenetic regulators Naomichi Matsumoto (Dept of Hum Genet, Yokohama City Univ Grad Sch Med)
3\$16-5 [10:50
Mechanism of Transcriptional Dysregulation in Cohesinopathies Kosuke Izumi (Research Center for Epigenetic Disease, IMCB, Univ. of Tokyo)
Discussion [11:1
Conclusion [11:20
Katsuhiko Shirahige (The University of Tokyo Institute of Molecular and Cellular Biosciences)
3S17 第17会場(5階 503) 9:00-11:30 [E]
Yoshinori Watanabe Presents Molocular Machaniems of Chromocomo Sogragation
Molecular Mechanisms of Chromosome Segregation Organizer: Yoshinori Watanabe (Inst. of Mol. Cell. Biosci., Univ. of Tokyo)
Introduction [9:00
Yoshinori Watanabe (Inst. of Mol. Cell. Biosci., Univ. of Tokyo)



3\$17-1	[9:02]
Mechanisms of Chromosomal Instability in Human Cancer Cells	
Duane A. Compton (Dept. Biochem, Geisel School of Medicine at Dartmouth)	
3\$17-2	[9:37]
An origin of chromosome missegregation in mitosis	
Toru Hirota (Div. Exp. Pathol., Cancer Inst., JFCR)	
3\$17-3	[10:02]
The inner centromere-shugoshin network prevents chromosomal instability	
Yuji Tanno, Hiroaki Susumu, Yoshinori Watanabe (Inst. of Mol. Cell. Biosci., Univ. of	Tokyo)
3\$17-4	[10:27]
Joining centrosomes and how to disjoin them to get a mitotic spindle Elmar Schiebel (Ctr. Mol. Biol., Univ. of Heidelberg)	
3\$17-5	[11:02]
Evolutionary landscape of condensin-based chromosome architecture Tatsuya Hirano (Chromosome Dynamics Laboratory, RIKEN)	
Conclusion	[11:27]
Elmar Schiebel (Ctr. Mol. Biol., Univ. of Heidelberg)	<u></u>
CSHA session 第17会場(5階 503)	13:15-15:45 [E]
Frontiers in Computational Biology	
Organizer: Michael Q. Zhang (Center for Systems Biology, MCB, Univ. of Texas - D and Systems Biology, TNLIST, Tsinghua University)	Pallas; Center for Synthetic
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Introduction about Cold Spring Harbor Asia	[13:15]
	[13:15]
Maoyen Chi (Cold Spring Harbor Laboratory / CSH Asia)	[13:15]
Maoyen Chi (Cold Spring Harbor Laboratory / CSH Asia) CSHA-1	
Maoyen Chi (Cold Spring Harbor Laboratory / CSH Asia) CSHA-1 Alu Repetitive Elements as Proto-Enhancers	
Introduction about Cold Spring Harbor Asia Maoyen Chi (Cold Spring Harbor Laboratory / CSH Asia) CSHA-1 Alu Repetitive Elements as Proto-Enhancers Jing-dong Jackie Han (CAS-MPG Partner Institute for Computational Biology) CSHA-2	
Maoyen Chi (Cold Spring Harbor Laboratory / CSH Asia) CSHA-1 Alu Repetitive Elements as Proto-Enhancers Jing-dong Jackie Han (CAS-MPG Partner Institute for Computational Biology) CSHA-2 Computational Advances in ChIP-seq and ChIA-PET Data Analysis Michael Q. Zhang (Center for Systems Biology, MCB, Univ. of Texas - Dallas; Center	[13:25] [13:50]
Maoyen Chi (Cold Spring Harbor Laboratory / CSH Asia) CSHA-1 Alu Repetitive Elements as Proto-Enhancers Jing-dong Jackie Han (CAS-MPG Partner Institute for Computational Biology) CSHA-2 Computational Advances in ChIP-seq and ChIA-PET Data Analysis Michael Q. Zhang (Center for Systems Biology, MCB, Univ. of Texas - Dallas; Center Biology, TNLIST, Tsinghua University)	[13:25] [13:50] The for Synthetic and Systems
Maoyen Chi (Cold Spring Harbor Laboratory / CSH Asia) CSHA-1 Alu Repetitive Elements as Proto-Enhancers Jing-dong Jackie Han (CAS-MPG Partner Institute for Computational Biology) CSHA-2 Computational Advances in ChIP-seq and ChIA-PET Data Analysis Michael Q. Zhang (Center for Systems Biology, MCB, Univ. of Texas - Dallas; Center Biology, TNLIST, Tsinghua University) CSHA-3	[13:25] [13:50] for Synthetic and Systems
Maoyen Chi (Cold Spring Harbor Laboratory / CSH Asia) CSHA-1 Alu Repetitive Elements as Proto-Enhancers Jing-dong Jackie Han (CAS-MPG Partner Institute for Computational Biology) CSHA-2 Computational Advances in ChIP-seq and ChIA-PET Data Analysis Michael Q. Zhang (Center for Systems Biology, MCB, Univ. of Texas - Dallas; Center Biology, TNLIST, Tsinghua University) CSHA-3 Metabolomics and Multi-omics Systems Biology	[13:25] [13:50]
Maoyen Chi (Cold Spring Harbor Laboratory / CSH Asia) CSHA-1 Alu Repetitive Elements as Proto-Enhancers Jing-dong Jackie Han (CAS-MPG Partner Institute for Computational Biology)	[13:25] [13:50] The for Synthetic and Systems
Maoyen Chi (Cold Spring Harbor Laboratory / CSH Asia) CSHA-1 Alu Repetitive Elements as Proto-Enhancers Jing-dong Jackie Han (CAS-MPG Partner Institute for Computational Biology) CSHA-2 Computational Advances in ChIP-seq and ChIA-PET Data Analysis Michael Q. Zhang (Center for Systems Biology, MCB, Univ. of Texas - Dallas; Center Biology, TNLIST, Tsinghua University) CSHA-3 Metabolomics and Multi-omics Systems Biology Masaru Tomita (Institute for Advanced Biosciences, Keio University)	[13:25] [13:50] for Synthetic and Systems [14:15]
Maoyen Chi (Cold Spring Harbor Laboratory / CSH Asia) CSHA-1 Alu Repetitive Elements as Proto-Enhancers Jing-dong Jackie Han (CAS-MPG Partner Institute for Computational Biology) CSHA-2 Computational Advances in ChIP-seq and ChIA-PET Data Analysis Michael Q. Zhang (Center for Systems Biology, MCB, Univ. of Texas - Dallas; Center Biology, TNLIST, Tsinghua University) CSHA-3 Metabolomics and Multi-omics Systems Biology Masaru Tomita (Institute for Advanced Biosciences, Keio University) CSHA-4 Finding collaborating transcription factors using ChIP-seq	[13:25] [13:50] If for Synthetic and Systems [14:15]

Nikolaus Rajewsky (Max Delbrueck Center for Molecular Medicine)