

**【第4日目12月4日(金)】**
**4S2 第2会場(神戸ポートピアホテル本館 地下1階 階案1) 9:00-11:30 [E]**
**The busy world of plant cells: dynamic organelle movements and their physiological roles**

 Organizers : Ikuko Hara-Nishimura (Kyoto University)  
 Kentaro Tamura (Kyoto University)

**Introduction [9:00]**

Kentaro Tamura (Kyoto University)

**4S2-1 [9:05]**
**The Unique Nucleocytoplasmic Linkage in Plants**

Kentaro Tamura (Dept. of Biol. Sci., Grad. Sch. of Sci., Kyoto Univ.)

**4S2-2 [9:30]**
**A mystery of busy cytoplasmic streaming in quiet plants**

Motoki Tominaga (Dep. Biol., Fac. Educ. Integrated Arts and Sci., Waseda Univ.)

**4S2-3 [9:55]**
**Molecular dynamics in chloroplast photorelocation movement**

 Samgeun Kong<sup>1,2</sup> (<sup>1</sup>Div. Struct. Biol. Med. Inst. of Bioreg. Kyushu Univ., <sup>2</sup>Res. Cent. Live-Protein Dynamics, Kyushu Univ.)

**4S2-4 [10:20]**
**Active movements and network formation of the endoplasmic reticulum in plant cells**

 Haruko Ueda<sup>1</sup>, Etsuo Yokota<sup>2</sup> (<sup>1</sup>Grad. Sch. of Sci., Kyoto Univ., <sup>2</sup>Grad. Sch. of Life Sci., Univ. of Hyogo)

**4S2-5 [10:45]**
**Cortical microtubule patterning in xylem cells**

 Yoshihisa Oda<sup>1,2</sup>, Yoshinobu Nagashima<sup>1,3</sup>, Yuki Sugiyama<sup>1,3</sup>, Hiroo Fukuda<sup>3</sup> (<sup>1</sup>National Institute of Genetics, <sup>2</sup>SOKENDAI, <sup>3</sup>Dept. of Biol. Sci., Grad. Sch. of Sci., Univ. of Tokyo)

**Discussion [11:10]**
**Conclusion [11:25]**

Ikuko Hara-Nishimura (Kyoto University)

**4S3 第3会場(神戸ポートピアホテル本館 地下1階 階案2) 9:00-11:30 [E]**
**Understanding of organogenesis beyond the hierarchy of multicellular behaviors**

 Organizers : Akira Kikuchi (Osaka University)  
 Mototsugu Eiraku (RIKEN)

**Introduction [9:00]**

Akira Kikuchi (Osaka University)

**4S3-1 [9:01]**
**Spatial and Temporal Regulation of the Neural Tube Pattern Formation**

Noriaki Sasai (Bio. Sci., NAIST)

**4S3-2 [9:26]**
**Self-organized formation of complex tissues from stem cells**

Mototsugu Eiraku (RIKEN CDB)

**4S3-3 [9:50]**
**Identification of novel stem cells by the multicolor lineage tracing method**

Hiroo Ueno (Dept. Stem Cell Pathology, Kansai Medical University)

**4S3-4 [10:15]**
**Multiscale modeling and simulation to explore the role of mechanical forces that shape living tissues and organs**

Taiji Adachi, Yasuhiro Inoue, Yoshitaka Kameo (Dept. of Biomech., Inst Frontier Med. Sci., Kyoto Univ.)

**4S3-5**
**[10:40]**
**Fine-tuning of differentiation and morphogenesis of tubular organs by Wnt signaling**

Akira Kikuchi, Shinsuke Fujii, Takayuki Kurimoto, Souji Ibuka, Shinji Matsumoto (Dept. of Molbio. Biochem., Grad. Sch. of Med., Osaka Univ.)

**4S3-6**
**[11:04]**
**Kidney progenitor expansion and generation of vascularized glomeruli from stem cells**

Ryuichi Nishinakamura, Shunsuke Tanigawa, Sazia Sharmin, Atsushi Taguchi (Inst. Mol. Embryol. Genet., Kumamoto Univ.)

**Conclusion**
**[11:29]**

Mototsugu Eiraku (RIKEN)

**4S4**

第4会場(神戸ポートピアホテル 本館地下1階 階差3)

**9:00-11:30 [E]**
**New aspects of lipid biology unveiled by lipidomics –from bench to clinic–**

Organizers : Hiroyuki Arai (The University of Tokyo)

Junken Aoki (Tohoku University)

**4S4-1**
**[9:00]**
**Comprehensive lipidomics and Mass/LipidBank databases**

 Masanori Arita<sup>1,2</sup>, Hiroshi Tsugawa<sup>2</sup> (<sup>1</sup>Natl Instit Genet, <sup>2</sup>RIKEN CSRS)

**4S4-2**
**[9:23]**
**Single cell lipidomics approach for diseases**

Mitsutoshi Setou (Dept. of Cell Biology and Anatomy, Hamamatsu Univ. Sch. of Medicine)

**4S4-3**
**[9:46]**
**Measuring phosphoinositides at molecular species level**

 Hiroki Nakanishi<sup>1,4</sup>, Satoshi Eguchi<sup>2</sup>, Masaki Ishikawa<sup>1</sup>, Akira Suzuki<sup>3</sup>, Junko Sasaki<sup>2</sup>, **Takehiko Sasaki**<sup>1,2,4</sup> (<sup>1</sup>Research Center for Biosignal, Akita University, <sup>2</sup>Department of Medical Biology, Graduate School of Medicine, Akita University, <sup>3</sup>Medical Institute of Bioregulation, Kyushu University, <sup>4</sup>Akita Lipid Technologies, Inc.)

**4S4-4**
**[10:09]**
**Function of organellar membrane lipids as a scaffold of intracellular signal integration**

 Hiroyuki Arai<sup>1,2</sup>, Tomohiko Taguchi<sup>2</sup> (<sup>1</sup>Department of Health Chemistry, Graduate School of Pharmaceutical Sciences, University of Tokyo, <sup>2</sup>Laboratory Pathological Cell Biology, Graduate School of Pharmaceutical Sciences, University of Tokyo)

**4S4-5**
**[10:32]**
**Platelet-activating factor and eicosanoid regulation by LPCAT2**

 Hideo Shindou<sup>1,2</sup>, Takao Shimizu<sup>1,3</sup> (<sup>1</sup>NCGM Lipid Signal, <sup>2</sup>JST CREST, <sup>3</sup>Dept. of Lipid. Fac. of Med. Univ. of Tokyo)

**4S4-6**
**[10:50]**
**Lipoquality regulation by the phospholipase A2 family**

 Makoto Murakami<sup>1,2</sup> (<sup>1</sup>Tokyo Metropolitan Institute of Medical Science, <sup>2</sup>AMED-CREST)

**4S4-7**
**[11:13]**
**LPA3 signal protects the heart against ischemic injury through activation of the vagus nerve**

 Kuniyuki Kano<sup>1,2</sup>, Junken Aoki<sup>1,2</sup> (<sup>1</sup>Grad. Sch. of Pharm. Sci., Tohoku Univ., <sup>2</sup>AMED)

**4S14**

第14会場(神戸国際会議場 1階 メインホール)

**9:00-11:30 [E]**
**Maintenance and plasticity of epigenetic memory**

Organizers : Yoichi Shinkai (RIKEN)

Jun-ichi Nakayama (Nagoya City University)

**Introduction**
**[9:00]**

Jun-ichi Nakayama (Nagoya City University)

<b>4S14-1</b>	<b>[9:05]</b>
<b>Epigenetic Inheritance Uncoupled from Sequence-Dependent Establishment</b>	
Danesh Moazed (Harvard Medical School, HHMI)	
<b>4S14-2</b>	<b>[9:30]</b>
<b>Crosstalk between histone modifications during heterochromatin assembly</b>	
Jun-ichi Nakayama (Div. of Biol. Sci., Grad. Sch. of Nat. Sci., Nagoya City Univ. )	
<b>4S14-3</b>	<b>[9:50]</b>
<b>Establishment and maintenance of histone modifications</b>	
Bing Zhu (Institute of Biophysics, Chinese Academy of Sciences)	
<b>4S14-4</b>	<b>[10:15]</b>
<b>Protracted NP95 binding to hemimethylated DNA disrupts proviral silencing</b>	
Haruhiko Koseki, Jafar Sharif (RIKEN-IMS)	
<b>4S14-5</b>	<b>[10:40]</b>
<b>A histone mimic within DNA Ligase 1 recruits UHRF1 to sites of DNA replication: implications for DNA remethylation</b>	
Alexandra Fournier <sup>1</sup> , Laure Ferry <sup>1</sup> , Takeshi Tsusaka <sup>2</sup> , Tadahiro Shimazu <sup>2</sup> , Kyohei Arita <sup>3</sup> , Yoichi Shinkai <sup>2</sup> , Pierre-Antoine Dofosse <sup>1</sup> ( <sup>1</sup> CNRS, Paris, France, <sup>2</sup> RIKEN, Wako, Japan, <sup>3</sup> Yokohama City University)	
<b>4S14-6</b>	<b>[11:00]</b>
<b>Epigenome changes induced by environmental factors and their memory</b>	
Shunsuke Ishii (Lab of Molecular Genetics)	
<b>Conclusion</b>	<b>[11:25]</b>
Yoichi Shinkai (RIKEN)	
<b>4S15</b>	<b>9:00-11:30 [E]</b>
第15会場(神戸国際会議場3階 国際会議室)	
<b>Tissue Remodeling and Diseases</b>	
Organizers : Yoshihiro Ogawa (Tokyo Medical and Dental University) Motoko Yanagita (Kyoto University)	
<b>Introduction</b>	<b>[9:00]</b>
Yoshihiro Ogawa (Tokyo Medical and Dental University)	
<b>4S15-1</b>	<b>[9:03]</b>
<b>Cellular and molecular bases of pulmonary fibrosis</b>	
Kouji Matsushima (Dept. of Mol. Preventive Med., Faculty of Med., The Univ. of Tokyo)	
<b>4S15-2</b>	<b>[9:32]</b>
<b>Intravital imaging analysis of different macrophages, bone tissue maintaining osteoclasts and residential macrophages in adipose tissues</b>	
Masaru Ishii (Dept. of Immunol. Cell Biol., Grad. Sch. of Med. Front. Biosci., Osaka Univ.)	
<b>4S15-3</b>	<b>[10:01]</b>
<b>Liver Tissue Injury and Remodeling</b>	
Ekihiro Seki (Div. of Gastroenterol. Dept. of Med., Cedars-Sinai Med. Ctr.)	
<b>4S15-4</b>	<b>[10:30]</b>
<b>Obesity-induced adipose tissue remodeling and the metabolic syndrome</b>	
Takayoshi Suganami <sup>1,2,3</sup> , Miyako Tanaka <sup>1,2</sup> , Michiko Itoh <sup>2</sup> , Yoshihiro Ogawa <sup>2,4</sup> ( <sup>1</sup> Dept. of Molecular Medicine and Metabolism, Res. Inst. of Environmental Medicine, Nagoya Univ., <sup>2</sup> Dept. of Molecular Endocrinology and Metabolism, Grad. Sch. of Medical and Dental Sci., Tokyo Medical and Dental Univ., <sup>3</sup> PRESTO, JST, <sup>4</sup> CREST・AMED)	
<b>4S15-5</b>	<b>[10:59]</b>
<b>A brain-heart-kidney network controls adaptation to cardiac stress and remodeling through tissue macrophage activation</b>	
Ichiro Manabe (Dept. Cardiovasc. Med., Grad. Sch. Med., Univ. Tokyo)	

**Conclusion**

[11:28]

Motoko Yanagita (Kyoto University)

**CSHA session**

第9会場(神戸ポートピアホテル 本館 地下1階 菊水)

14:00-16:30 [E]

**Metabolism, cancer and diseases**

Organizer : Maoyen Chi (Cold Spring Harbor Laboratory/CSH Asia)

**Introduction**

[14:00]

Maoyen Chi (Cold Spring Harbor Laboratory/CSH Asia)

**CSHA-1**

[14:20]

**The Mitochondrial Pyruvate Carrier as a Target for Treating Diabetes**

Finck Brian (Washington University School of Medicine)

**CSHA-2**

[14:50]

**The Role of Seipin in Adipogenesis and Lipid Droplet Expansion**

(rob) yang Hongyuan (School of Biotechnology and Biomolecular Sciences, the University of NSW)

**CSHA-3**

[15:20]

**A new method of drug delivery that selectively targets senescent cells**Daniel Munoz-Espin<sup>1</sup>, Cristina Gimenez<sup>2</sup>, Irene Galiana<sup>2</sup>, Jose Ramon Murguia<sup>2</sup>, Ramon Martinez-Manez<sup>2</sup>, Manuel Serrano<sup>1</sup> (<sup>1</sup>Spanish National Cancer Research Center (CNIO), 28029 Madrid, Spain, <sup>2</sup>Centre for Molecular Recognition and Technological Development (IDM), Polytechnic University of Valencia (UPV), 46022 Valencia, Spain)**CSHA-4**

[15:50]

**Adipose Tissue Dysregulation and Metabolic Complications in Obesity**

Jong In Kim, Sung Sik Choe, Jin Young Huh, Jae Bum Kim (Department of Biological Science, Institute of Molecular Biology &amp; Genetics, Seoul National University, Seoul 151-742, Korea)