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Ⅲ 国際シンポジウム

The 33rd Hot Spring Harbor International Symposium 2024

Cutting-Edge Research and Technology in Stem Cells and Reprogramming

October 29 10:00 – 17:50 [Tue] / 30 9:30 – 16:15 [Wed]

2F Collaborative Research Station-I, Hospital Campus, Kyushu University

九州大学 病院キャンパス コラボステーション I 2階 視聴覚ホール

Invited Speakers

Cantas Alev

Kyoto University
Japan

Lijian Hui

Center for Excellence in
Molecular Cell Science, CAS
China

Kim B. Jensen

University of Copenhagen
Denmark

Samantha A. Morris

Harvard Medical School
USA

Yasuyuki Ohkawa

Kyushu University
Japan

Atsushi Suzuki

Kyushu University
Japan

Hongkui Deng

Peking University
China

Meritxell Huch

Max Planck Institute
Germany

Shin Kaneko

Kyoto University
Japan

Kinichi Nakashima

Kyushu University
Japan

Aiko Sada

Kyushu University
Japan

Satoshi Yamazaki

University of Tokyo
Japan

Mototsugu Eiraku

Kyoto University
Japan

Masaru Ishii

Osaka University
Japan

Mitsuru Morimoto

RIKEN BDR
Japan

Ryuichi Nishinakamura

Kumamoto University
Japan

Toshiro Sato

Keio University
Japan

Short-Talks from MIB (14 speakers)

Program



Registration



Access



Contact 国際シンポジウム事務局 Tel:092-642-6449 E-mail : hss2024@bioreg.kyushu-u.ac.jp
(器官発生再生学分野)

主催：九州大学 生体防御医学研究所

共催：文部科学省 共同利用・共同研究システム形成事業「学際領域展開ハブ形成プログラム（4Dシステム発生・再生学イニシアティブ）」、高深度オミクス医学研究拠点整備事業、多階層生体防御システム研究拠点

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The 33rd Hot Spring Harbor International Symposium
– Cutting-Edge Research and Technology in Stem Cells and Reprogramming –

October 29 -30, 2024

2F Collaborative Research Station-I, Hospital Campus, Kyushu University, Fukuoka, Japan

Tuesday, October 29, 2024	
10:00-10:05	Opening Remarks: Yasuyuki Ohkawa (Director of Medical Institute of Bioregulation)
Session 1:	Stem cell regulation and medicine Chair: Yoshihiro Baba
10:05-10:40	Cantas Alev (Kyoto University, Japan) Reconstituting human axial development <i>in vitro</i>
10:40-11:05	Satoshi Yamazaki (The University of Tokyo, Japan) Expansion and Prediction of hematopoietic stem cells
11:05-11:30	Shin Kaneko (Kyoto University, Japan) The Generation of T cells from iPS cells for Immunotherapy
11:30-12:45	Lunch (meeting invited speakers only)
Session 2:	Tissue regeneration and reprogramming Chair: Takahiro Masuda
12:45-13:20	Lijian Hui (Center for Excellence in Molecular Cell Science, CAS, China) Cell Identity Conversion: Liver Regeneration and Cell Therapy
13:20-13:45	Kinichi Nakashima (Kyushu University, Japan) Artificial induction of neurogenesis to restore the function of the central nervous system
13:45-14:10	Atsushi Suzuki (Kyushu University, Japan) Direct reprogramming technology and its medical prospects
14:10-14:20	Group Photos
14:20-14:45	Coffee break
Session 3:	Short Talks from MIB (1) Chair: Hiroki Shibata & Yoshihiro Izumi
14:45-15:55	Short talks of 10 minutes each by 7 speakers (see the next page for details)
15:55-16:25	Coffee break
Session 4:	Biotechnology and imaging Chair: Hiroshi Ochiai
16:25-17:00	Samantha A. Morris (Harvard Medical School, USA) New genomic technologies to deconstruct and control cell identity
17:00-17:25	Yasuyuki Ohkawa (Kyushu University, Japan) Single-cell epigenome lineage tracing via RNA Pol II-defined cell states
17:25-17:50	Masaru Ishii (Osaka University, Japan) Spatiotemporal heterogeneity of <i>in vivo</i> immune systems
19:00-	Dinner party (by invitation only)

Wednesday, October 30, 2024

Session 5: Stem cell growth and differentiation Chair: **Akiyoshi Uezumi**

- 09:30-10:05 **Hongkui Deng** (Peking University, China)
From Bench to Bedside: Chemical reprogramming and the future of regenerative medicine
- 10:05-10:40 **Kim B. Jensen** (University of Copenhagen, Denmark)
Guiding intestinal stem cell fate
- 10:40-11:05 **Mitsuru Morimoto** (RIKEN, Japan)
Identifying lung stem cell subpopulation by combining single-stem cell morphometrics, organoid culture and transcriptome
- 11:05-11:30 **Aiko Sada** (Kyushu University, Japan)
Unraveling stem cell dynamics in skin regeneration and aging
- 11:30-12:45 Lunch (meeting invited speakers only)

Session 6: Short Talks from MIB (2) Chair: **Takehito Uruno & Satoshi Watanabe**

- 12:45-13:55 Short talks of 10 minutes each by 7 speakers (see the next page for details)
- 13:55-14:20 Coffee break

Session 7: Organoid technology and disease Chair: **Shinichiro Sawa**

- 14:20-14:55 **Meritxell Huch** (Max Planck Institute, Germany)
Building Architecture and Complexity in Tissue-Derived Liver Organoids
- 14:55-15:20 **Ryuichi Nishinakamura** (Kumamoto University, Japan)
Building a kidney from pluripotent stem cells
- 15:20-15:45 **Mototsugu Eiraku** (Kyoto University, Japan)
Organogenesis in stem cell culture
- 15:45-16:10 **Toshiro Sato** (Keio University, Japan)
Understanding of Human Organ Function and Disease Using Organoid Technology
- 16:10-16:15 Closing Remarks: **Atsushi Suzuki** (Kyushu University, Japan)
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Session3: Short Talks from MIB (1)Chair: **Hiroki Shibata & Yoshihiro Izumi**14:45-15:55, Tuesday, October, 29 2024

S-01: Chihiro Nakayama (Division of Cancer Genome Regulation)

Transcription termination and its function in cancer

S-02: Yutaro Yada (Division of Immunology and Genome Biology)

STIM-mediated store-operated calcium entry regulates positive selection and affinity maturation of germinal center B cells

S-03: Shinichiro Sawa (Division of Mucosal Immunology)

Early primary ossification center is a reservoir for cells that promote fetal bone marrow development

S-04: Ayame Nagafuchi (Division of Allergy and Immunology)

Identification of autoantibodies promoting remyelination in aging

S-05: Shota Yamamoto (Division of Molecular Neuroimmunology)

Macrophage/microglia-producing transient increase of platelet-activating factor is required for neuropathic pain

S-06: Akiyoshi Uezumi (Division of Cell Heterogeneity)

Retinoic acid signaling regulates fate of mesenchymal stromal cells in skeletal muscle

S-07: Satoshi Watanabe (Division of Trans-Scale Structural Life Science)Flexible motion and zinc-mediated regulation of a cargo receptor ERGIC-53 revealed by cryo-EM

Session6: Short Talks from MIB (2)Chair: **Takehito Uruno & Satoshi Watanabe**12:45-13:55, Wednesday, October, 30 2024

S-08: Yuki Ito (Division of Molecular Systems for Brain Function)

Decoding neuronal circuit-specific synapse proteomes using proximity labeling

S-09: Hiroshi Ochiai (Division of Gene Expression Dynamics)

Changes in higher-order genomic structures coupled with transcriptional states in mouse embryonic stem cells

S-10: Keisuke Matsubara (Division of Immunogenetics)

Novel functions of DOCK2 in RNA metabolism

S-11: Taichi Matsubara (Division of Biomedical Information Analysis)

Locating transcription factor binding sites with Quantum Convolutional Neural Networks

S-12: Zhuo Qu (Division of Bioinformatics)

Genome-wide identification of exon extension/shrinkage events induced by splice-site-creating mutations

S-13: Kohta Nakatani (Division of Metabolomics)

Wide-scope targeted analysis of bioactive lipids based on chromatography mass spectrometry

S-14: So Morishita (Division of Integrated Omics)The different responses of the Akt downstream molecules against obesity-induced attenuation of insulin signal transmission in mice liver

