

Date: Wednesday, July 10, 2019
Time: 10:00 - 20:00 (Registration starting at 9:30)
Venue: Auditorium, DB Bldg. C1F, RIKEN BDR Kobe Campus
2-2-3 Minatojima-minamimachi, Chuo-ku, Kobe, Hyogo 650-0047
<https://www.bdr.riken.jp/en/access/index.html>

10:00-10:10 Opening remarks
Eisuke Nishida (Director, RIKEN Center for Biosystems Dynamics Research)

10:10-10:20 Introduction of BDR-CuSTOM collaboration
Mitsuru Morimoto (RIKEN Center for Biosystems Dynamics Research)

Research talks 1

Chair: Mitsuru Morimoto

10:20-10:35 Lung development and regeneration
Mitsuru Morimoto (RIKEN Center for Biosystems Dynamics Research)

10:35-10:55 Generating the whole urinary tract from hPSCs
Minoru Takasato (RIKEN Center for Biosystems Dynamics Research)

10:55-11:25 A single cell road map of foregut organogenesis
Aaron Zorn (Center for Stem Cell & Organoid Medicine, Cincinnati Children's Hospital Medical Center)

11:25-11:45 Ectodermal organ regeneration through the self-organization of organ-inductive stem cells
Makoto Takeo (RIKEN Center for Biosystems Dynamics Research)

11:45-13:45 Lunch

Only for CuSTOM members
12:00-13:00 Steering committee meeting with lunch
13:00-13:45 Institute Tour

Research talks 2

Chair: Aaron Zorn

13:45-14:05 A new way to use of scattering lights in biology: challenge to predict "intracellular state" from scattering lights
Tomonobu Watanabe (RIKEN Center for Biosystems Dynamics Research)

14:05-14:35 iPSC Modeling of the Human Intestine
Michael Helmrath (Center for Stem Cell & Organoid Medicine, Cincinnati Children's Hospital Medical Center)

14:35-14:55

Multicolor 3D observation and 3D modeling for tissue
Hideo Yokota (RIKEN Center for Advanced Photonics)

14:55-15:15

On-chip Vasculature for Three-Dimensional Tissue Models and Organ-on-a-Chip Applications
Ryuji Yokokawa (RIKEN Cluster for Science, Technology and Innovation Hub)

15:15-15:35

Coffee break

Young Researcher's talks

Chair: Minoru Takasato

15:35-15:55 Identification and expansion of organ-inductive potential epithelial stem cells in hair follicles utilizing 3D-organoid culture system
Makoto Takeo (RIKEN Center for Biosystems Dynamics Research)

15:55-16:15

Modeling inborn error of bile acid metabolism by iPSC-derived hepatocytes
Akihiro Asai (Center for Stem Cell & Organoid Medicine, Cincinnati Children's Hospital Medical Center)

16:15-16:35

Applying Robotics to iPSC Cell Research
Genki Kanda (RIKEN Center for Biosystems Dynamics Research)

Chair: Michael Helmrath

16:35-16:55

Enterendocrine cells couple an epithelial-neuronal signal to control nutrient absorption
Heather McCauley (Center for Stem Cell & Organoid Medicine, Cincinnati Children's Hospital Medical Center)

16:55-17:15

A conserved regulator for self-renewal between embryonic progenitors and tissue stem cells in mouse trachea
Hirofumi Kiyokawa (RIKEN Center for Biosystems Dynamics Research)

17:15-17:35

Development of en masse screening system using mosaic human organoid library
Masaki Kimura (Center for Stem Cell & Organoid Medicine, Cincinnati Children's Hospital Medical Center)

17:35-17:55

Closing remarks
Aaron Zorn (Director, Center for Stem Cell & Organoid Medicine, Cincinnati Children's Hospital Medical Center)

18:00-20:00

Social Gathering at BDR Lounge
General: 3,000 JPY / Student: 1,000 JPY