

ASHBi Retreat 2021

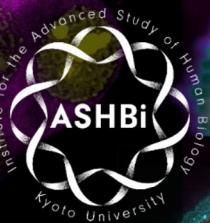
Online

**Unleash your
Curiosity!**



20 February, 2021





ASHBi Retreat 2021

Interaction of new ideas & networks via online

Program

1. Date & Venue

Date: Saturday, 20 February 2021

Time: 09:00–17:30

Venue: Zoom Online Meeting

High-speed LAN/WiFi environment advised for stability

2. Zoom & Spatial Chat Links

Zoom: <https://us02web.zoom.us/j/82332043015?pwd=aW1hWURVTTJCeldTRGRWU00zRjhVdz09>

Spatial Chat: <https://spatial.chat/s/ashbiretreat>

Please Access Spatial Chat via Chrome

Please log in with your full name (eg. Fumi KOMORI) for both Zoom and Spatial Chat.

3. Schedule

9:00	Opening Remarks/Instruction (<i>Zoom</i>)
	Fusion Research Workshop (<i>Zoom</i>)
9:10	Speaker #1 - #4
10:30	Break
10:50	Speaker #5 - #7
12:00	Lunch Break (<i>Spatial Chat</i>)
	Poster Session (<i>Zoom & Breakout Rooms</i>)
13:15	Part 1
14:55	Break
15:15	Part 2
16:55	Networking Session (<i>Spatial Chat</i>)
17:15	Poster Award/Closing Remarks (<i>Zoom</i>)

Emergency Contact: 075-753-9882 (ASHBi Office)

Fusion Research Workshop (9:10 – 11:50)

The 2nd Workshop on ASHBi Fusion Research Grant

Time	Name	Title	Chair
9:10	Yusuke Imoto (Imoto Team)	Identification of multi-resolution cell differentiation dynamics from scRNA-seq data via mathematical data analysis and interactive visualization system	Mototsugu Eiraku
9:30	Yusuke Seto (Seto Team)	Toward the establishment of experimental and mathematical models to understand cellular basis of osteogenic wave	
9:50	Sohei Tasaki (Tasaki Team)	A mathematical modeling approach to epigenetic dynamics	Yasuaki Hiraoka
10:10	Killian Meehan (Tsuji-mura Team)	Topological approaches for integrative 3D epigenomics	
10:30	Break		
10:50	Kumiko Yoshioka-Kobayashi (Yoshioka Team)	Characterization of gene regulatory networks in human and non-human in vitro segmentation clocks	Misao Fujita
11:10	Tsutomu Sawai (Sawai Team)	Examining Ethics and Governance in Developmental Biology Research	
11:30	Xun Chen (Chen Team)	Deciphering evolutionary differences of germline transposable element dynamics	

Poster Session Part 1 (13:15 – 14:55)

(18 Breakout Rooms: A – R)

Room	Name	Title
A	Yoshihiro Yamanaka (Alev G)	Reconstitution of human axial development and disease with pluripotent stem cells
B	Satoko Amemori (Amemori G)	Causal evidence for the induction of anxiety-like behaviors in monkeys by the network including pACC and cOFC targeting striosome
C	Xun Chen (Bourque G)	Towards understanding the inter-individual variability revealed by transposable elements in the human response to virus infection
D	Masatoshi Ohgushi (Eiraku G)	Molecular elucidation of trophoblast-like differentiation from human embryonic stem cells
E	Shoma Matsumoto (Ema G)	Characterization of cynomolgus monkey trophoblast stem cells under different culture conditions
F	Go Okui (Fujita G)	Ethics and governance in embryonic development research: An overview
G	Shinichiro Oshima (R Yamamoto G)	Self-renewal and differentiation of hematopoietic stem cells in macaques fetal liver
H	Sohei Tasaki (Hiraoka G)	A mathematical modeling approach to epigenetic dynamics
I	Toshinari Kawasaki (Isa G)	Dynamic changes of resting-state functional connectivity during functional recovery after spinal cord injury in macaque monkeys
J	Naoki Hirose (Murakawa G)	Innovations in the primate gene repertoire –transcriptome atlas of non-human primates–
K	Yoichi Fujii (Ogawa G)	Molecular classification and novel diagnostics of upper urinary tract urothelial carcinoma
L	Masahiro Nagano (Saitou G)	Nucleome programming for mouse germ cell development in vitro
M	Masataka Nakaya (Tsukiyama G)	Novel methods for gene introduction in monkeys
N	Hajime Morita (Ueno G)	Diversity of Human Liver-Resident T and B cell Subsets
O	Joonseong Lee (T Yamamoto G)	RNA secondary structures responsible for pluripotency gene expression
P	Yuki Sato (Yanagita G)	Cellular and molecular mechanism driving age-dependent TLT formation in the kidney
Q	Reona Yamaguchi (Isa G)	Global disinhibition across cortical networks for recovery of hand movements after spinal cord injury
R	Shihori Yokobayashi (Saitou G)	Inherent genomic properties underlie epigenetic variations of human induced pluripotent stem cells

*Attention for Part 1 presenters: Please return to **Zoom at 13:00** for rehearsal.

Poster Session Part 2 (15:15 – 16:55)

(18 Breakout Rooms: A – R)

Room	Name	Title
A	Kumiko Yoshioka-Kobayashi (Alev G)	Live imaging-based characterization of gene expression/cellular dynamics in in vitro-derived mammalian segmentation clocks
B	Jungmin Oh (Amemori G)	Chemogenetics manipulation of the primate nucleus accumbens induced loss of motivation to perform conflict decision-making
C	Qinwei Zhuang (Bourque G)	The impact of sex on the methylome landscape in mice liver and brain
D	Rio Tsutsumi (Eiraku G)	3D culture models of limb cartilage morphogenesis and growth in mouse and human
E	Masanaga Muto (Ema G)	Exploring Developmental Potential of Inner Cell Mass in Cynomolgus Monkeys
F	Tsutomu Sawai (Fujita G)	The ethics of human brain organoid research and application
G	Takafumi Ichikawa (Hiiragi G)	Extra-embryonic tissue facilitates mouse peri-implantation embryonic development via a mechano-chemical interplay
H	Toshiaki Yachimura (Hiraoka G)	Trajectory inference of cell differentiation by Gaussian mixture models and optimal transport theory
I	Satoko Ueno (Isa G)	Massive re-routing of the corticospinal tract after rehabilitative training following spinal cord injury in the macaque monkey
J	Tomoko Kasahara (Murakawa G)	Genetic architecture of human diseases revealed by global 3D genome profiling at high-resolution
K	Ryunosuke Saiki (Ogawa G)	Combined analysis of gene mutations and copy-number alterations in clonal hematopoiesis
L	Ikuhiro Okamoto (Saitou G)	The X-chromosome dosage compensation program during the development of cynomolgus monkeys
M	Tomoyuki Tsukiyama (Tsukiyama G)	Generation of genetically modified monkeys in PRiME
N	Akinori Murakami (Ueno G)	Dissecting tissue lymphocyte subsets in rheumatoid arthritis
O	Ryusaku Matsumoto (T Yamamoto G)	Spatial transcriptomics for the tissue interaction analysis during pituitary development
P	Naoya Toriu (Yanagita G)	Kidney development and disease models in a non-human primate
Q	Akiko Oguchi (Murakawa G)	Single-cell enhancer identification reveals genetic and evolutionary diversity of human diseases
R	Kazunori Sunadome (T Yamamoto G)	The establishment and application of HybISS (hybridization-based in situ sequencing)

*Attention for Part 2 presenters: Please return to **Zoom at 15:00** for rehearsal.