

Single Cell Science Symposium

July 6 - 7 RIKEN Yokohama Koryuto Hall

Program

Updated on July 4, 2017

Thursday, July 6th, 2017		
9:00 - 9:30	Registration Open	
9:30 - 9:40	Opening Greetings	Shunsuke Ishii
9:40 - 11:05	Session 1: Single Cell Analysis Technology I	Chair: Erik Arner
9:40	L-01 The Beginning of New Age in Genomics	Piero Carninci
10:05	L-02 Analysis of The Tumor Microenvironment by Single Cell Transcriptome	Shinichi Hashimoto
10:35	L-03 Vertical Flow Array Chips for Highly Sensitive Single-Cell Gene Expression Analysis	Masataka Shirai
11:05 - 11:30	Oral Session 1	Chair: Erik Arner
11:05	O-01 Whole Transcriptome Analysis of 8,000 Single Cells Using The New (P-01) Single Cell Nanocage Protocol	Stéphane Poulain
11:17	O-02 Establishing Transcriptome and Epigenome Databases for Aged Mice (P-10)	Tommy W. Terootea
11:30 - 12:45	Lunch & Exhibition	
12:45 - 14:15	Session 2: Single Cell Analysis Technology II	Chair: Piero Carninci
12:45	L-04 Single Cell Approaches To Characterize Epigenetic Memory	Amos Tanay
13:15	L-05 The Human Cell Atlas	Mike Stubbington
13:45	L-06 Dissecting Mouse Forebrain Development Through Single-Cell Analysis of Chromatin Accessibility	Bing Ren
14:15 - 14:45	Coffee Break & Exhibition	
14:45 - 16:00	Session 3: Neuron / Immune Cells	Chair: Kuniya Abe
14:45	L-07 Dissection of The Immune Cell Society by Single-Cell Technologies: Sequencing, Production, and Characterization of B-Cell Immunorepertoires Retrieved from Single Cells	Osamu Ohara
15:10	L-08 Asymmetric Intracellular Signaling for Axon Guidance	Hiroyuki Kamiguchi
15:35	L-09 Cell Cycle-Linked and Ultradian Oscillations of Gene Expression during Neurogenesis: Towards a Single Cell Level of Understanding	Adrian Moore
16:00 - 16:40	Oral Session 2	Chair: Kuniya Abe
16:00	O-03 Inferring Transcriptional Regulatory Networks Controlling Neuronal (P-04) Reprogramming and Subtype Specification Using Single Cell Analysis	Joachim Luginbühl
16:12	O-04 Single-Cell Thermometry Revealing Ca ²⁺ -Regulated Ph Changes (P-19) before Heat Production in Individual Brown Adipocytes	Madoka Suzuki
16:24	O-05 Single Cell Analysis of NF- κ B Dependent Gene Expression and (P-22) Translocation into The Nucleus	Takehiko Inaba
16:40 - 16:45	Day 1 Wrap-up	Haruhiko Koseki
16:45 - 17:00	General Announcement	
17:00 - 18:00	Posters, Exhibition & Coffee	
18:15 - 21:00	Networking reception	

Friday, July 7th, 2017

9:00 - 9:30 Registration Open

9:30 - 10:55 Session 4: Imaging and Spatial information Chair: Hiroyuki Kamiguchi

9:30 L-10 Imaging Technologies for Single Cell Analysis Yasushi Okada

9:55 L-11 Intravital Multiphoton Imaging of Dynamic Immune Systems and Development of a Method for Identifying Critical Molecules Controlling Cellular Dynamics in Vivo Masaru Ishi

10:25 L-12 Spatial Maps of Transcriptomes Reveal an Unexplored Landscape of Tissue Heterogeneity Joakim Lundeberg

10:55 - 11:35 Oral Session 3 Chair: Yasushi Okada

10:55 O-06 Development of Ab Initio 3D Reconstruction Algorithm for Mid-(P-14) Gastrula Mouse Embryo from Transcriptome Using Kernel Self-Organizing Map Tomoya Mori

11:07 O-07 Single Molecule Imaging of Transcription Factors in Living Nuclei (P-11) for Single Cell Approach Kazuko Okamoto

11:19 O-08 Highly Quantitative Single-Cell Metabolomics by Capillary (P-06) Electrophoresis Coupled with Mass Spectrometry Takayuki Kawai

11:31 General Announcement

11:35 - 13:00 Lunch, Lab Tour & Exhibition

13:00 - 15:00 Session 5: Stem cells in Tissue and in Development Chair: Osamu Ohara

13:00 L-13 Comprehensive Single Cell Analyses on Developmental Transitions and Reprogramming Events in Mammalian Pluripotent Stem Cells Kuniya Abe

13:25 L-14 Origin and Induction Processes of Hair Follicle Stem Cells Hironobu Fujiwara

13:50 L-15 Transcriptional Control of Human Embryo Genome Activation Juha Kere

14:20 L-16 "SHOGoiN", a Human Cell Type Database Based on Single-Cell Data and Beyond Wataru Fujibuchi

14:50 General Announcement

15:00 - 15:10 Photo Shooting

15:10 - 16:10 Posters, Exhibition & Coffee

16:10 - 17:20 Panel Discussion Chair: Jay Shin

Transforming Research through Single Cell Technologies

Panelists: Bing Ren, Kazuhiro Sakurada, Juha Kere, Yasushi Okada, Mike Stubbington, and Wataru Fujibuchi

17:20 - 17:30 Closing Remarks Piero Carninci