

Single Cell Technologies Toward Human Health

Tuesday, October 9th, 2018 at Jiji Press Hall (Tokyo, Japan)

10:00 - 10:30 Registration Open

10:30 - 10:50 Opening

10:30 Opening Remarks

Shigeo Koyasu
RIKEN

10:35 Greetings

Hideshi Semba
Ministry of Education, Culture, Sports, Science and
Technology (MEXT)

10:40 Greetings

Yutaka Hishiyama
Japan Agency for Medical Research and
Development (AMED)

10:45 Greetings

Jonah Cool
Chan Zuckerberg Initiative (CZI)

10:50 - 11:55 Session 1: Building the Atlas

Chair: **Hiroyuki Aburatani**, Tokyo University

10:50 Building a Single Cell Atlas Towards Human Health

Piero Carninci
Lab. for Transcriptome Technology, IMS, RIKEN

11:10 The Power of ONE: Immunology in the Age of
Single Cell Genomics

Ido Amit
Department of Immunology, Weizmann Institute of
Science, Israel

11:55 - 12:45 Session 2: Single Cell Technologies

Chair: **Chung-Chau HON**, RIKEN

11:55 RamDA-seq: A Single-cell Full-length Total RNA
Sequencing Uncovers Dynamics of Various
Functional RNAs

Itoshi Nikaido
Lab. for Bioinformatics Research, BDR, RIKEN

12:20 Single Cell CAGE and Single Cell Reprogramming

Jay Shin
Lab. for Advanced Genomics Circuit, IMS, RIKEN

12:45 - 14:10 Social Gathering with Lunch

14:10 - 15:50 Session 3: Single Cell Analysis

Chair: **Sumio Sugano**, Tokyo Medical and Dental University

14:10 Evaluate Cellular Stability and Transition Based on
Single-cell Transcriptome Data

Eiryu Kawakami
Healthcare and Medical Data Driven AI based
Predictive Reasoning Development Unit, MIH, RIKEN

14:35 Single Cell Analysis of ES Cell Models with Autism
CNV

Toru Takumi
Lab. for Mental Biology, CBS, RIKEN

15:00 Efficient Long Single Molecule Sequencing and
Single Cell Technologies

Brock Peters
Complete Genomics, Inc.

15:25 Biology at True Resolution with the 10x Genomics
Product Portfolio

Ken Osaki
10x Genomics, Inc.

15:50 - 16:20 Coffee Break

16:20 - 17:35 Session 4: RIKEN Partnership Projects

Chair: **Jay Shin**, RIKEN

16:20 The Immune System of Supercentenarians

Kosuke Hashimoto
Lab. for Transcriptome Technology, IMS, RIKEN

16:45 Genetics of Human Immune System

Kazuhiko Yamamoto
Lab. for Autoimmune Diseases, IMS, RIKEN

17:10 Understanding Tumor Microenvironment and
Development Towards the Immunotherapy

Shin-ichiro Fujii
Lab. for Immunotherapy, IMS, RIKEN

17:35 - 17:40 Closing

17:35 Closing Remarks

Sumio Sugano
Tokyo Medical and Dental University