

Program

Nov 11, 2018 (Sun)

16:00 – 16:45	Session 1: Commencement
16:00 – 16:05	Welcome Address 1: Seung Joon Kim (KRIBB Vice President)
16:05 – 16:25	Introduction to Human Cell Atlas, Jay Shin (RIKEN)
16:25 – 17:30	Session 2: Plenary Lecture and Collaboration Network 1 (Chair: Young-Joon Kim)
16:25 – 17:05	Single cell RNA Sequencing Analysis of Tumor-infiltrating Immune cells, Zemin Zhang (Peking Univ.)
17:05 – 17:25	The Western Australian Cancer Single Cell Initiative, Alistair Forrest (Harry Perkins Institute of Medical Research)
17:30 – 19:00	Poster Session (at Landing hotel with drinks and snacks)
19:00 – 20:30	Welcome Dinner (at Landing hotel)

Nov 12, 2018 (Mon)

09:00 – 10:20	Session 3. Technology Development (Chair: Piero Carninci)
09:00 – 09:20	Investigating the Role of Structural Features of Small RNAs in RNA Interference at Single-cell Level, Hye Ran Koh (Chung-Ang Univ.)
09:20 – 09:40	High-throughput SNV screening with targeted deaminase and single-cell analysis, Duhee Bang (Yonsei Univ.)
09:40 – 10:00	Advancing the pace of biological discovery with 10x genomics, Tarjei Mikkelsen (10x genomics)
10:00 – 10:20	Single-Cell Stranded Total RNA Sequencing Provides a More Comprehensive Analysis of the Transcriptome than SMART-Seq v4, Benjamin Lacar (Fluidigm corporation)
10:20 – 10:50	Coffee Break
10:50 – 11:30	Session 4. Immunology (Chair: Shyam Prabhakar)
10:50 – 11:10	The heterogeneity of human circulating and tissue mononuclear phagocytes unraveled using single cell omics, Charles-Antoine Dutertre (A*STAR)
11:10 – 11:30	Single-cell analysis revealed a SIRT1 and mitochondria mediated immune fitness mechanism, Amit Singhal (A*STAR)
11:30 – 12:10	Session 5. Bioinformatics and Databases (Chair: Seon-Young Kim)
11:30 – 11:50	Quality Assessment of Stem and Differentiated Cells for Regenerative Medicine by International Stem Cell Bank Initiative, Wataru Fujibuchi (Kyoto Univ.)
11:50 – 12:10	Inferring genetic features from single-cell RNA sequencing, Na-Young Kim (Samsung Genome Institute)
12:10 – 13:40	Lunch (with luncheon seminar)

13:40 – 15:40	Small group discussion (at meeting room, invited participants only)
15:40 – 16:20	Coffee Break
16:20 – 17:40	Session 6. Cancer (Chair: Jay Shin)
16:20 – 16:40	Mapping trajectories of drug-induced tumor evolution “one cell at-a-time”, Ramanuj Dasgupta (Genome Institute of Singapore)
16:40 – 17:00	Comprehensive cellular landscape of colorectal cancer, Woong Yang Park (Sungkyunkwan Univ.)
17:00 – 17:20	Colorectal and lung cancer: inferring cell types and states from large scRNA-seq datasets, Shyam Prabhakar (Genome Institute of Singapore)
17:20 – 17:40	Single-cell gene expression analysis in gynecological cancer, Shinichi Hashimoto (Kanazawa Univ)
18:00 – 19:30	Dinner (at Landing hotel)
19:30 – 21:00	Social networking (at Devil's door pub)

Nov 13, 2018 (Tuesday)

09:00 – 10:40	Session 7. Stem Cell & Development (Chair: Shyam Prabhakar)
09:00 – 09:20	Ageing mouse atlas, Tommy Terooatea (RIKEN)
09:20 – 09:40	Defining the identity and dynamics of adult gastric isthmus stem cells, Jong Kyung Kim (DGIST)
09:40 – 10:00	Decoding the gene regulation network in human germline cells with single cell functional genomics approach, Fuchou Tang (Peking Univ.)
10:00 – 10:20	Non-coding regulatory elements in human brain organoids during neurodevelopment, Yan Jun Lan (RIKEN)
10:20 – 10:50	Coffee Break
10:50 – 12:00	Session 8. Collaboration and Networking II
10:50 – 12:00	Group discussion Global collaboration (Jane Lee)
12:00	Closing Remarks