TUESDAY, APRIL 5
Arrival and Registration

WEDNESDAY, APRIL 6
Welcome and Keynote Address
Eileen E.M. Furlong, European Molecular Biology Laboratory, Germany
Dissecting Regulatory Principles of Embryonic Development One Cell at a Time

Interrogating Disease Models at Single Cell
Barbara Treutlein, ETH Zürich, Switzerland
Understanding Organoids by Disassembling and Analysing Component Lineages Using Single-Cell RNA Sequencing
Ido Amit, Weizmann Institute, Israel
The Power of ONE: Immunology in the Age of Single Cell Genomics
Maike Sander, University of California, San Diego, USA
Insights into Pancreatic Islet Cell Gene Regulation and Disease Mechanisms of Diabetes from Single-Cell Analyses

Short Talk(s) Chosen from Abstracts

Poster Session 1

Workshop 1: Emerging Technologies for Unbiased Single Cell Analysis
Short Talks Chosen from Abstracts

Single Cell Computational Biology to Molecular Mechanisms
Sarah Teichmann, Wellcome Sanger Institute, UK
Cell States and Transcriptional Programmes in the Adult Human Heart
Fabian Theis, Helmholtz Zentrum München, Germany
Computational Approaches in Single Cell Trajectory Analysis and Modeling
Matthias Mann, Max Planck Institute of Biochemistry, Germany
Proteomics and Systems Biology in the Age of Single Cell Analysis

Short Talks Chosen from Abstracts

THURSDAY, APRIL 7
Development and Cell Fate at Single Cell Resolution I
Jeffrey A. Whitsett, Cincinnati Children’s Hospital Medical Center, USA
LungMAP: Systems Biology Approaches Supporting Study of Perinatal and Postnatal Lung Development and Disease
Nikolaus Rajewsky, Max Delbrück Center for Molecular Medicine, Germany
Design Principles of Gene Expression by Single Cell-Sequencing
Alexander F. Schier, University of Basel, Switzerland
Cellular Biographies: Reconstructing Zebrafish Development
Stefano Piccolo, University of Padua, Italy
Combined Single-Cell and Histopathology Datasets Reveal Spatial Location of Glioblastoma Stem Cells and New Plasticity Determinants

Short Talk(s) Chosen from Abstracts

Workshop 2
Short Talks Chosen from Abstracts

Spatially-Resolved Omics at Single Cell Resolution
Speaker to be Announced
Bernd Bodenmiller, University of Zürich, Switzerland
Highly Multiplexed Imaging of Tissues with Subcellular Resolution by Imaging Mass Cytometry
Speaker to be Announced
Short Talks Chosen from Abstracts

Poster Session 2

FRIDAY, APRIL 8
Single Cell Analysis in Tumor Microenvironment
Massimiliano Pagani, IFOM - The FIRC Institute of Molecular Oncology, Italy
Deciphering the Tumor Microenvironment by Multomics Analyses
Evan W. Newell, Fred Hutchinson Cancer Research Center, USA
Using Antigen Specificity to Parse the High Dimensional Profiles of Tumor Infiltrating T Cells
Peter Lichter, Deutsches Krebsforschungszentrum, Germany
Experiences in Assessing Intra-Tumor Heterogeneity by Single Cell Sequencing
Kara L. Davis, Stanford University, USA
Single-Cell Developmental Classification of B Cell Precursor Acute Lymphoblastic Leukemia Using Mass Cytometry at Diagnosis Reveals Predictors of Relapse

Short Talks Chosen from Abstracts

Development and Cell Fate at Single Cell Resolution II
Alexander van Oudenaarden, Hubrecht Institute, Netherlands
Ribosome Profiling in Single Cells
Speaker to be Announced
Short Talks Chosen from Abstracts

Poster Session 3

SATURDAY, APRIL 9
Single Cell Analysis in Neuroscience
Ana Pombo, Max Delbrück Centre for Molecular Medicine, Germany
Specialization of 3D Genome Topologies in Specific Cell Types and States
Speaker to be Announced
Speaker to be Announced
Short Talks Chosen from Abstracts

Workshop 3
Short Talks Chosen from Abstracts

Single Cell Analysis in Infection Biology
Muzlifah A. Haniffa, Newcastle University, UK
Decoding the Developing Human Immune System

David Van Valen†, Caltech, USA
Single Cell Biology in a Software 2.0 World

Emmanuel Saliba, University of Würzburg, Germany
Regulatory and Virulence Mechanisms in Host-Pathogen Interactions

Angela Ciuffi, Institute of Microbiology - CHUV/UNIL, Switzerland
Single Cell Analysis of Viral Pathogenesis

Short Talks Chosen from Abstracts

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)

SUNDAY, APRIL 10

Departure