



Monday, June 27

8 am

— 8:30am - 9:00am (30 Min)

Coffee & Registration

9 am

— 9:00am - 9:05am (5 Min)

Welcoming Remarks

Christoph Bock

Principal Investigator
CeMM and MedUni Vienna

— 9:05am - 9:35am (30 Min)

State of the Human Cell Atlas

Christoph Bock

Principal Investigator
CeMM and MedUni Vienna

Aviv Regev

Head Genentech Research and Early Development
Human Cell Atlas and Genentech

Sarah Teichmann

Head of Cellular Genetics and Senior Group Leader / Human Cell Atlas and Wellcome Sanger Institute
Human Cell Atlas and Wellcome Sanger Institute

— 9:35am - 9:45am (10 Min)

Overview of the Meeting

Aviv Regev

Head Genentech Research and Early Development
Human Cell Atlas and Genentech

Sarah Teichmann

Head of Cellular Genetics and Senior Group Leader / Human Cell Atlas and Wellcome Sanger Institute
Human Cell Atlas and Wellcome Sanger Institute

— 9:45am - 11:05am (1 Hour, 20 Min)

Plenary Session 1 - Exciting Advances

Christoph Bock

Principal Investigator
CeMM and MedUni Vienna

Prisca Liberali

Group Leader
Friedrich Miescher Institute

Jay Shendure

Principal Investigator
University of Washington

Lars Steinmetz

Professor
Stanford University

Bonnie Berger

Simons Professor of Mathematics
Massachusetts Institute of Technology

11 am

— 11:05am - 11:35am (30 Min)

Coffee Break



Monday, June 27

— 11:35am - 12:55pm (1 Hour, 20 Min)

Plenary Session 2 - Atlases are Taking Shape

Holger Heyn

Group Leader
Spanish National Centre for Genomic Analysis

Muzlifah Haniffa

Principal Investigator
Wellcome Sanger Institute

Ed Lein

Principal Investigator
Allen Institute for Brain Science

Dana Pe'er

Principal Investigator
Memorial Sloan Kettering

Fabian Theis

Professor
Helmholtz Zentrum München

12 pm

— 12:55pm - 2:25pm (1 Hour, 30 Min)

Lunch

2 pm

— 2:25pm - 2:55pm (30 Min)

Lightning Talks

Cecilia Domenguez Conde

Human Technopole
Research Group Leader

Özgün Gokce

Principal Investigator
LMU University Hospital MUNICH

Katrina Gold

Senior Research Manager
Wellcome

Anand Kumar Andiappan

Principal Investigator
Singapore Immunology Network

Jian Shu

Assistant Professor
Harvard Medical School

Margo Emont

Postdoctoral Associate
BIDMC

— 2:55pm - 3:40pm (45 Min)

Plenary Session 3 - Multimodal Profiling and Applications (Part 1)

Ponpan Matangkasombut

Principal Investigator
Mahidol

Katrina Gold

Senior Research Manager
Wellcome

Xiao Wang

Principal Investigator
Broad Institute of MIT and Harvard

Nikolaus Rajewsky

Principal Investigator
Max Delbrück Center for Molecular Medicine

3 pm

— 3:40pm - 4:10pm (30 Min)

Coffee Break

4 pm

— 4:10pm - 4:55pm (45 Min)

Plenary Session 3 - Multimodal Profiling and Applications (Part 2)

Orit Rozenblatt-Rosen

Head, Cellular and Tissue Genomics
Genentech

Jonathan Weissman

Principal Investigator
Whitehead Institute and MIT

Alexander van Oudenaarden

Principal Investigator
Hubrecht Institute

Mariana Boroni

Principal Investigator
INCA



Monday, June 27

— 4:55pm - 5:10pm (15 Min)

Close of Day 1

Christoph Bock
Principal Investigator
CeMM and MedUni Vienna

5 pm

— 5:10pm - 6:40pm (1 Hour, 30 Min)

Social Hour



Tuesday, June 28

8 am

— 8:30am - 9:00am (30 Min)

Coffee Break

9 am

— 9:00am - 10:30am (1 Hour, 30 Min)

Plenary Session 4 - Opportunities and Challenges Using and Accessing Data

Alexandra Chloe Villani
Principal Investigator
Massachusetts General Hospital

Nils Gehlenborg
Principal Investigator
Harvard Medical School

Jonah Cool
Science Officer, Program Lead
Chan Zuckerberg Initiative

Arathi Mani
Software Engineer
Chan Zuckerberg Initiative

Nir Yosef
Principal Investigator
UC Berkeley

Irene Papatheodorou
Team Leader
EMBL-EBI

Malte Luecken
Postdoctoral Researcher
Helmholtz Munich

Evan Biederstedt
Research Scientist
Harvard Medical School

10 am

— 10:30am - 10:35am (5 Min)

Introduction to Breakout Session 1

John Randell
Chief Alliance Officer
Human Cell Atlas

— 10:35am - 11:05am (30 Min)

Coffee Break

11 am

— 11:04am - 12:35pm (1 Hour, 31 Min)

Breakout Session 1 - Toward the Draft Atlas v1.0

Kerstin Meyer
Principal Staff Scientist
Wellcome Sanger Institute

Alexandra Chloe Villani
Principal Investigator
Massachusetts General Hospital

Nir Yosef
Principal Investigator
UC Berkeley

Katy Borner
Distinguished Professor
Indiana University

David Osumi-Sutherland
Group Leader
EMBL/EBI

Shyam Prabhakar
Senior Group Leader
Genome Institute of Singapore

Patricia Severino
Principal Investigator
Hospital Israelita Albert Einstein

Benedict Paten
Associate Professor,
UC Santa Cruz Genomics Institute

Ajay Pillai
Program Director
NHGRI/NIH

Dana Pe'er
Principal Investigator
Memorial Sloan Kettering

— 11:05am - 12:35pm (1 Hour, 30 Min)

Breakout 1.3: Cell ontologies, annotation & metadata - Katy Borner & David Osumi-Sutherland

Katy Borner
Distinguished Professor
Indiana University

David Osumi-Sutherland
Group Leader
EMBL/EBI



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— 11:05am - 12:35pm (1 Hour, 30 Min)

Breakout 1.2: Computational querying of the atlas - Dana Pe'er & Nir Yosef

Dana Pe'er

Principal Investigator
Memorial Sloan Kettering

Nir Yosef

Principal Investigator
UC Berkeley

— 11:05am - 12:35pm (1 Hour, 30 Min)

Breakout 1.5: User-friendly access to HCA data & atlases - Ben Paten & Ajay Pillai

Benedict Paten

Associate Professor,
UC Santa Cruz Genomics Institute

Ajay Pillai

Program Director
NHGRI/NIH

— 11:05am - 12:35pm (1 Hour, 30 Min)

Breakout 1.4: Modeling genetic variation - Shyam Prabhakar & Patricia Severino

Shyam Prabhakar

Senior Group Leader
Genome Institute of Singapore

Patricia Severino

Principal Investigator
Hospital Israelita Albert Einstein

— 11:05am - 12:35pm (1 Hour, 30 Min)

Breakout 1.1: Good practices for making organ-level atlases - Kerstin Meyer & Alexandra-Chloe Villani

Alexandra Chloe Villani

Principal Investigator
Massachusetts General Hospital

Kerstin Meyer

Principal Staff Scientist
Wellcome Sanger Institute

12 pm

— 12:35pm - 2:05pm (1 Hour, 30 Min)

Lunch

1 pm

— 1:00pm - 2:00pm (1 Hour)

Gut Cell Atlas Social Hour

2 pm

— 2:05pm - 2:55pm (50 Min)

Welcome and Keynote Lecture

Dana Pe'er

Principal Investigator
Memorial Sloan Kettering

Elaine Fuchs

Professor
Rockefeller University



Tuesday, June 28

— 2:55pm - 3:45pm (50 Min)

Breakout Session 1 Report Back and Biological Networks Sessions - Bridging Data Production and Computational Integration outline

John Randell
Chief Alliance Officer
Human Cell Atlas

3 pm

— 3:45pm - 4:10pm (25 Min)

Coffee Break

4 pm

— 4:10pm - 5:45pm (1 Hour, 35 Min)

Biological Networks Session 2 : Liver, Lung, Breast, Reproduction, Genetic Diversity

Dana Pe'er
Principal Investigator
Memorial Sloan Kettering

— 4:10pm - 5:45pm (1 Hour, 35 Min)

Biological Networks Session 4: Development, Nervous System, Organoid, Eye, Genetic Diversity

Fabian Theis
Professor
Helmholtz Zentrum München

— 4:10pm - 5:45pm (1 Hour, 35 Min)

Biological Networks Session 3: Kidney, Adipose, Immune, Genetic Diversity

Aviv Regev
Head Genentech Research and Early Development
Human Cell Atlas and Genentech

— 4:10pm - 5:45pm (1 Hour, 35 Min)

Biological Networks Session 5: Skin, Musculoskeletal, Heart, Genetic Diversity (Zoom)

Malte Luecken
Postdoctoral Researcher
Helmholtz Munich

— 4:10pm - 5:45pm (1 Hour, 35 Min)

Biological Networks Session 1: Gut, Pancreas, Oral & Craniofacial, Genetic Diversity

Nir Yosef
Principal Investigator
UC Berkeley



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5 pm



5:45pm - 6:00pm (15 Min)

Coffee Break

6 pm



6:00pm - 6:45pm (45 Min)

Biological Networks Session Report Back

John Randell
Chief Alliance Officer
Human Cell Atlas

7 pm



7:05pm - 9:00pm (1 Hour, 55 Min)

Dinner - Salon Plafond



Wednesday, June 29

8 am

8:30am - 9:00am (30 Min)

Coffee Break

9 am

9:00am - 9:05am (5 Min)

Welcome and Overview of Day 3

9:05am - 10:05am (1 Hour)

Plenary Session 5 - Toward Medical Impact

Joachim Schultze

Director Systems Medicine
Deutsche Zentren der Gesundheitsforschung

Alexander Marson

Faculty
UCSF

Mark McCarthy

Principal Fellow and Executive Director
Genentech

Eliezer Van Allen

Professor
Dana-Farber Cancer Institute

10 am

10:05am - 10:35am (30 Min)

Coffee Break

10:34am - 12:05pm (1 Hour, 31 Min)

Breakout Session 2 - Toward Medical Impact

Aravinda Chakravarti

Principal Investigator
NYU Grossman School of Medicine

Daniel McArthur

Director, Centre for Population Genomics
Garvan Institute of Medical Research

Barbara Treutlein

Principal Investigator
ETH Zurich

Heinrich Jasper

Principal Fellow and Director
Genentech

Diether Lambrechts

Group Leader
VIB-KU Leuven

Antonia Mueller

Principal Investigator
Medical University of Vienna

Karuna Ganesh

Medical Oncologist
Memorial Sloan Kettering Cancer Center

Sam Behjati

Wellcome Sanger Institute
Wellcome Sanger Institute

Michal Schwartz

Professor
Weizmann Institute of Science

Ido Amit

Principal Investigator
Weizmann Institute of Science

10:35am - 12:05pm (1 Hour, 30 Min)

Breakout 2.5: Neurological disorders - Michal Schwartz & Ido Amit

Michal Schwartz

Professor
Weizmann Institute of Science

Ido Amit

Principal Investigator
Weizmann Institute of Science



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— 10:35am - 12:05pm (1 Hour, 30 Min)

Breakout 2.3: Cell-based immunotherapy - Diether Lambrechts & Antonia Müller

Diether Lambrechts
Group Leader
VIB-KU Leuven

Antonia Mueller
Principal Investigator
Medical University of Vienna

— 10:35am - 12:05pm (1 Hour, 30 Min)

Breakout 2.2: Regenerative medicine - Barbara Treutlein & Heinrich Jasper

Barbara Treutlein
Principal Investigator
ETH Zurich

Heinrich Jasper
Principal Fellow and Director
Genentech

— 10:35am - 12:05pm (1 Hour, 30 Min)

Breakout 2.4: Precision oncology - Karuna Ganesh & Sam Behjati

Karuna Ganesh
Medical Oncologist
Memorial Sloan Kettering Cancer Center

Sam Behjati
Wellcome Sanger Institute
Wellcome Sanger Institute

— 10:35am - 12:05pm (1 Hour, 30 Min)

Breakout 2.1: Genetic diseases and genomic risk factors - Aravinda Chakravarti & Daniel McArthur

Aravinda Chakravarti
Principal Investigator
NYU Grossman School of Medicine

Daniel McArthur
Director, Centre for Population Genomics
Garvan Institute of Medical Research

12 pm

— 12:05pm - 1:35pm (1 Hour, 30 Min)

Lunch

1 pm

— 1:35pm - 2:20pm (45 Min)

Breakout Session 2 - Report Back

Kerstin Meyer
Principal Staff Scientist
Wellcome Sanger Institute



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2 pm

— 2:20pm - 3:50pm (1 Hour, 30 Min)

Plenary Session 6 - Results of the EU Horizon 2020 Pilot Projects

Sarion Bowers

Head of Pollicy
Wellcome Sanger Institute

Timo Trefzer

Postdoctoral Scientist
Charité and BIH Berlin

Amanda Oliver

Postdoctoral Associate
Wellcome Sanger Institute

Roser Vento Tormo

Group Leader
Wellcome Sanger Institute

Barbara Treutlein

Principal Investigator
ETH Zurich

Carlos Simón

Principal Investigator
INCLIVA

Diego Balboa Alonso

Postdoctoral Associate
Centre for Genomic Regulation

Christoph Bock

Principal Investigator
CeMM and MedUni Vienna

Sabrina Ladstätter

Senior Postdoctoral Fellow
CeMM

3 pm

— 3:50pm - 4:20pm (30 Min)

Coffee Break

4 pm

— 4:20pm - 5:20pm (1 Hour)

Plenary Session 7 - Future Perspectives

Christoph Bock

Principal Investigator
CeMM and MedUni Vienna

Jürgen Knoblich

Principal Investigator
Austrian Academy of Sciences

Barbara Engelhardt

Professor
Princeton University

Karuna Ganesh

Medical Oncologist
Memorial Sloan Kettering Cancer Center

5 pm

— 5:20pm - 5:35pm (15 Min)

Close Meeting

— 5:35pm - 6:30pm (55 Min)

Social Hour