

LifeTime Conference 2.0 – Day 1 / June 16, 2021

01:00 - 01:15 PM (CEST) |
 07:00 - 07:15 AM (EDT) | **Welcome & Introduction:** Nikolaus Rajewsky and Geneviève Almouzni (LifeTime Coordinators)
 04:00 - 04:15 AM (PDT) |

01:15 - 01:45 PM (CEST) | **Keynote Lecture:** Ido Amit - Weizmann Institute of Science, Rehovot
The power of ONE: Immunology in the age of single-cell genomics

01:45 - 01:55 PM (CEST) | **Short Break**

01:55 - 03:15 PM (CEST) | **Session 1: Cell Type/State and Disease (Chairs: Laleh Hagverdi & Amos Tanay)**

01:55 - 02:15 PM (CEST) | **Holger Heyn** - CNAG-CRG, Barcelona

Single Cell Genomics for Precision Oncology

02:15 - 02:35 PM (CEST) | **Alison Simmons** - NDM/University of Oxford

Human intestinal cellular anatomy through development, in health and in Inflammatory Bowel Disease

02:35 - 02:55 PM (CEST) | **María Rodríguez** - IBM Research Europe, Zurich

Unraveling new biological insights from single-cell proteomic data using DEPICTION

02:55 - 03:05 PM (CEST) | **Short Talk: Cindrilla Chumduri** - University of Würzburg

Spatial organization and homeostasis of gastroesophageal and cervical squamocolumnar transition zone and mechanisms underlying precancerous metaplasia development

03:05 - 03:15 PM (CEST) | **Short Talk: Maren Büttner** - Helmholtz Zentrum Munich

scCODA: A Bayesian model for compositional single-cell data analysis

03:15 - 03:30 PM (CEST) | **Short Break**

03:30 - 04:30 PM (CEST) | **Poster Presentations & Sponsor Sessions**

04:30 - 06:20 PM (CEST) | **Session 2: Models for Disease Mechanisms (Chairs: Prisca Liberali & Giuseppe Testa)**

04:30 - 04:50 PM (CEST) | **Mina Gouti** - Max Delbrück Center for Molecular Medicine, Berlin

Building advanced human neuromuscular organoid models to study disease

04:50 - 05:10 PM (CEST) | **Meritxell Huch** - MPI-CBG, Dresden

Liver organoids for the study of disease mechanisms

05:10 - 05:30 PM (CEST) | **Stéphanie Descroix** - Institut Curie, Paris

Microfluidics and microfabrication for tumor on chip models

05:30 - 05:40 PM (CEST) | **Short Break**

05:40 - 06:00 PM (CEST) | **Hervé Chneiweiss** - CNRS/INSERM, Paris

Developing the ethical guidelines for the use of organoids and organ-on-chips

06:00 - 06:10 PM (CEST) | **Short Talk: Agnieszka Rybak-Wolf** - Max Delbrück Center for Molecular Medicine, Berlin

Neurodegeneration in herpes simplex virus 1 infected human brain organoids

06:10 - 06:20 PM (CEST) | **Short Talk: Giulia Della Chiara** - IFOM, Milan

Epigenomic landscape of human colorectal cancer unveils an aberrant core of pan-cancer enhancers orchestrated by YAP/TAZ

LifeTime Conference 2.0 – Day 2 / June 17, 2021

12:00 - 12:05 PM (CEST) |
 06:00 - 06:05 AM (EDT) | **Opening Remarks:** Nikolaus Rajewsky and Geneviève Almouzni (LifeTime Coordinators)
 03:00 - 03:05 AM (PDT) |

12:05 - 01:25 PM (CEST) | **Session 3: Heterogeneity and Plasticity (Chairs: Giacomo Cavalli & Céline Vallot)**
 12:05 - 12:25 PM (CEST) | **Oliver Stegle** - EMBL/DKFZ, Heidelberg
From genotype to phenotype with single-cell resolution
 12:25 - 12:45 PM (CEST) | **Jean-Christophe Marine** - VIB-KU, Leuven
Nongenetic mechanisms of cancer evolution and therapy resistance
 12:45 - 01:05 PM (CEST) | **Ephraim Kenigsberg** - ISMMS, New York City
Identifying molecular determinants of clinical variability in Crohn's Disease
 01:05 - 01:15 PM (CEST) | **Short Talk: Fabian Müller** - Saarland University, Saarbrücken
Chromatin and gene-regulatory dynamics of the developing human cerebral cortex at single-cell resolution
 01:15 - 01:25 PM (CEST) | **Short Talk: Andrei Zinovyev** - Institut Curie, Paris
Precise and continuous quantification of cell cycle transcriptomic trajectory in single cell data

01:25 - 01:40 PM (CEST) | **Short Break**

01:40 - 02:40 PM (CEST) | **Poster Presentations & Sponsor Sessions**

02:40 - 04:00 PM (CEST) | **Session 4: Tissue Organization and Spatial Analyses (Chairs: Leeat Keren & John Marioni)**
 02:40 - 03:00 PM (CEST) | **Nikolaus Rajewsky** - BIMS/MDC, Berlin
tbd
 03:00 - 03:20 PM (CEST) | **Carles Calatayud Aristoy** - VIB-KU, Leuven
Probing Parkinson's Disease with Induced Human Microcircuits on CMOS Chips
 03:20 - 03:40 PM (CEST) | **Anne Rios** - Princ. Máxima Center f. Pediatric Oncology, Utrecht
Spatio-phenotypic patterning of millions of cells within tissues
 03:40 - 03:50 PM (CEST) | **Short Talk: Kyoung Jae Won** - University of Copenhagen
Niche-specific gene expression using PICseq analysis during mouse embryonic development
 03:50 - 04:00 PM (CEST) | **Short Talk: Ivano Legnini** - Berlin Institute for Medical Systems Biology / MDC, Berlin
Optogenetic perturbations of gene expression at single-cell resolution

04:00 - 04:10 PM (CEST) | **Short Break**

04:10 - 05:10 PM (CEST) **Session 5: New Cell-based Diagnostics and Therapies (Chairs: Angelika Eggert & Mihai Netea)**

04:10 - 04:30 PM (CEST) **Martijn Nawijn** - UMCG, Groningen

Asthma-specific cell states and cell-cell interactions reveal novel mechanisms in disease pathogenesis

04:30 - 04:50 PM (CEST) **Joachim Schultze** - DZNE, Bonn

Disease trajectories and molecular phenotypes exemplified by COVID-19

04:50 - 05:00 PM (CEST) **Short Talk: Arianna Mangiavacchi** - KAUST, Saudi Arabia

LINE-1 retrotransposon RNA delivery to osteoporotic patients derived mesenchymal stem cells rescues bone matrix production

05:00 - 05:10 PM (CEST) **Short Talk: Florian de Rop** - VIB-KU, Leuven

HyDrop: a custom droplet microfluidics assay for single-cell ATAC-seq and single-cell RNA-seq

05:10 - 05:15 PM (CEST) **Short Break**

05:15 - 05:55 PM (CEST) **Industry Panel Discussion (Chair: Joachim Schultze)**

Michael Schnell-Levin, SVP R&D, Founding Scientist / 10X Genomics

Gary Kruppa, VP of Proteomics / Bruker Corporation (Bruker Daltonics Inc.)

Joseph M. Beechem, CSO and SVP of R&D / Nanostring Technologies, Inc.

Reyk Horland, CEO / TissUse GmbH

05:55 - 06:00 PM (CEST) **Closing Remarks**