

Monday, June 19, 2023

08:30	<i>Registration and Welcome Coffee</i>		
10:00	<b>Roland Eils</b>	Opening and Welcome Remarks	
10:10	<b>Maïke Sander</b>	Insights into islet cell gene regulation from single-cell genomics	
10:50	<b>Maik Pietzner</b>	The genetic architecture of neglected diseases	Short Talks
11:10	<b>Christian Simonsson</b>	A Unified Minimal Framework to Study Liver Steatosis Dynamics in Response to Different Diet and Drug Interventions	
11:30	<b>Mirabai Cuenca-Ardura</b>	Integration of genetic and chemical screens to discover targeted therapies for diabetes	
11:50	<b>Tilda Herrgårdh</b>	A multi-scale digital twin for adiposity-driven diabetes progression	
12:10	<i>Lunch</i>		
13:10	<b>Jorge Ferrer</b>	Genetic mechanisms underlying diabetes: insights from the noncoding genome	
13:50	<b>Lori Sussel</b>	Alternative splicing contributes to pancreatic beta cell dysfunction in diabetes	
14:30	<b>Catera Wilder</b>	Dynamic control of signaling networks: uncovering specificity in interferon-mediated cellular responses through coordinated positive feedback loops	Short Talks
14:50	<b>Matthias Günther</b>	Graft-versus-host disease is locally maintained in target tissues by resident progenitor-like T cells	
15:10	<i>Coffee Break</i>		
15:30	<b>Tanja Zeller</b>	Systems Medicine Approaches in Cardiovascular Disease - Right at the time?	
16:10	<b>Inés Rivero-García</b>	Network modelling of the regulatory pathways involved in cardiac regeneration	Short Talks
16:30	<b>Christoph Dieterich</b>	RNA splicing networks in heart failure and how they impact cellular signaling pathways	
17:00 - 19:00	Poster Session 1 (Poster ID 01 – ID 25) and Welcome Reception		

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Tuesday, June 20, 2023

09:00	<b>Lars Kaderali</b>	Mathematical Modeling of Infection and Immune Response	
09:40	<b>Hana El- Samad</b>	Build to Understand—The Secret Life Of Feedback Circuits	
10:20	<i>Coffee Break</i>		
10:40	<b>Benjamin Wild</b>	Medical history predicts phenome-wide disease onset	Short Talks
11:00	<b>Vlad Elgart</b>	Local Generation and Efficient Evaluation of Numerous Drug Combinations in a Single Sample	
11:20	<b>Yael Lebel</b>	Excitable dynamics of flares and relapses in autoimmune diseases	
11:40	<b>Franziska Hörsch</b>	Clonal hematopoiesis through dysfunction of the Fanconi anemia DNA repair pathway	
12:00	<b>Alon Bar</b>	Atlas of the physiology of pregnancy based on millions of lab tests	
12:20	<i>Lunch</i>		
13:20	Poster Session 2 (Poster ID 26 – ID 50)		
15:20	<b>Claudia Langenberg</b>	Multi-omics for insights into metabolic diseases	
16:00	<i>Coffee Break</i>		
16:20	<b>Christine Wiggins</b>	Modeling IFN $\gamma$ -independent immune mechanisms in genetically diverse mice	Short Talks
16:40	<b>Hannah Pybus</b>	Early-life airway epithelial barrier damage is critical to allergen-induced wheeze and asthma development	
17:00	<b>Krista Pullen</b>	Finding new human tuberculosis disease mechanisms from computational systems analysis of preclinical animal studies	
17:20	<b>Sophie McEwen</b>	An Exploration of the differential Host Response to SARS-CoV-2 Variants in Pediatric Patients using Single Cell Transcriptomics	
18:30	Conference Dinner		

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Wednesday, June 21, 2023

09:00	<b>Fabian Theis</b>	Learning single cell atlases towards use in disease phenotyping	
09:40	<b>Prisca Liberali</b>	<b>Award Lecture: Anne Heidenthal Prize for Fluorescence Research</b> sponsored by Chroma Technology Corp. <b>Symmetry breaking and self-organization in intestinal organoids</b>	
10:40	<i>Coffee Break</i>		
11:00	<b>Thomas Höfer</b>	Optimal Stem Cell Dynamics and Cancer Risk	
11:40	<b>Johanna Denkena</b>	Epiclonal reconstruction of DNA methylation patterns using single-molecule reads	Short Talks
12:00	<b>Verena Körber</b>	Neuroblastoma develops in early fetal development and its evolutionary duration predicts outcome	
12:20	<b>Taran Gujral</b>	Systems pharmacology and machine learning identifies druggable cancer cell-stroma interactions	
12:40	<i>Lunch</i>		
13:40	<b>Karsten Rippe</b>	Resolving intra-tumor heterogeneity in tissue sections by analyzing the activity of the alternative lengthening of telomeres pathway	Short Talks
14:00	<b>Nikolaos Meimetis</b>	Modeling on- and off-target effects of drugs on tumor cell signaling using artificial neural networks	
14:20	<b>Pablo Naranjo</b>	Optimization of chemotherapeutic regimens using multi-objective Reinforcement Learning	
14:40	<b>Ulf Nehrbass</b>	A Launchpad for Digital health in Europe	
15:20	<b>Uri Alon</b>	Principles of systems medicine	
16:00	<b>Roland Eils</b>	Closing remarks	
<i>End of meeting: Cake &amp; Coffee</i>			