

SBHD 2021 – Schedule

Monday, July 5, 2021

08:00	<i>Registration and Welcome Coffee</i>		
10:00	Roland Eils Berlin, Germany	Opening and welcome remarks	
Session: 1			
10:20	Mats Nilsson Stockholm, Sweden	Precision anatomical mapping of human organs using targeted in situ sequencing	
11:00	Martijn Nawijn Groningen, Netherlands	The Human Lung Cell Atlas in health and disease - revealing unique, disease-associated cell states in asthma	
11:40	Maren Büttner Neuherberg, Germany	scCODA: A bayesian model for compositional single-cell data analysis	<i>Short Talks</i>
12:00	Tamara Raschka Sankt Augustin, Germany	Quantitative modelling of clinical data and molecular disease mechanisms in Alzheimer's disease via Variational Autoencoder Modular Bayesian Networks	
12:20	<i>Lunch Break</i>		
14:00	Virtual Poster Session 1		
Session: 2			
15:30	Orit Rozenblatt-Rosen Boston, USA	Cell atlases as roadmaps to understanding disease	
16:10	<i>Coffee Break</i>		
16:40	Brian Orcutt-Jahns Los Angeles, USA	Systems engineering of IL-2 Identifies multivalency as a critical, unexplored axis of regulatory T cell-specific therapies	<i>Short Talks</i>
17:00	Montgomery Blencowe Los Angeles, USA	Multiomics network analysis of three liver diseases using UK Biobank data	
17:20	Peter Kharchenko Boston, USA	Single-cell transcriptomics and comparative analysis of disease tissues	
18:00	Bree Aldridge Boston, USA	Design of combination therapies for tuberculosis	
18:40	Welcome Reception		

Tuesday, July 6, 2021

Session: 3			
09:00	Niko Beerenwinkel Zurich, Switzerland	Computational analysis of tumor single-cell sequencing data	
09:40	Bernd Bodenmiller Zurich, Switzerland	Systems level analysis of tumor ecosystems by imaging mass cytometry enables precision medicine	
10:20	<i>Coffee Break</i>		
10:50	Saskia Trump & Sören Lukassen Berlin, Germany	Untangling COVID-19 severity with single-cell transcriptomics	
11:30	Markku Varjosalo Helsinki, Finland	SARS-CoV-2 –host proteome interactions for antiviral drug discovery	Short Talks
11:50	Maria Polychronidou Molecular Systems Biology	Behind the scenes of publishing: the editorial process	
12:10	<i>Lunch Break</i>		
14:00	Virtual Poster Session 2		
Session: 4			
15:30	Jan Hasenauer Bonn, Germany	Improving mechanistic modelling using machine learning algorithms	
16:10	<i>Coffee Break</i>		
16:30	Kerstin Ritter Berlin, Germany	From machine to deep learning in clinical neuroimaging	
17:10	Suzanne Gaudet Boston, USA	Deploying the arsenal: modeling to drive the development of anti-viral therapies for COVID19	Short Talks
17:30	Taran Gujral Seattle, USA	Machine learning identifies potent inhibitors of SARS-CoV2-induced cytokine storm	
17:50	Divya Ramamoorthy Boston, USA	Identifying patterns of ALS progression from sparse longitudinal data	
19:00	Conference Dinner		

Wednesday, July 7, 2021

Session: 5		
09:00	Ieuan Clay Basel, Switzerland	Digital measures in evidence generation and generating engagement
09:40	Monique van der Wijst Groningen, Netherlands	1M-scBloodNL: Cell type- and pathogen-specific regulatory networks to disentangle immune-mediated diseases
10:20	<i>Coffee Break</i>	
10:50	Raphaëlle Lesage Leuven, Belgium	Development of a machine-learning model to assess osteoarthritis signature in mouse disease models
11:10	Takuya Miyano, London, UK	A quantitative systems pharmacology model to investigate drug targets for atopic dermatitis
11:30	Tal Pecht Bonn, Germany	Urban living in healthy Tanzanians is associated with an inflammatory status driven by dietary and metabolic changes
11:50	Amit Frishberg Haifa, Israel	Multiple trajectory alignment unmask dynamics of biological processes and enables data-driven quantification of disease progression
12:10	Helena Radbruch Berlin, Germany	Anne Heidenthal Prize for Fluorescence Research <i>sponsored by Chroma Technology Corp.</i> How does SARS-Cov2 enter the brain?
13:00	<i>Lunch Break</i>	
Session: 6		
14:30	Claudia Langenberg Berlin, Germany	Clinical insights from large-scale multi-omic population-based studies
15:10	Kathrin Thedieck Innsbruck, Austria	Modeling metabolic signaling through the mTOR network in tumors
15:50	Trey Ideker San Diego, USA	Building the mind of cancer
16:30	Roland Eils Berlin, Germany	Closing remarks
End of Meeting with Coffee & Cake		

Short Talks