

SBHD 2019 – Schedule

Monday, May 27, 2019

09:00	<i>Registration and Welcome Coffee</i>	
10:00	Roland Eils Berlin, Germany	Opening and welcome remarks
	Session A Chair: Roland Eils	Multiscale Approaches from Single Cell to Whole Organisms
10:20	Fabian Theis Munich, Germany	Modeling differentiation and simulation response in single cell genomics
11:00	Xia Yang Los Angeles, USA	Multi-tissue, multi-cellular, and multi-omics modeling of complex human diseases
11:40		Short Talk
12:00		Short Talk
12:20	<i>Lunch</i>	
14:00	Emma Lundberg Stockholm, Sweden	Anne Heidenthal Prize for Fluorescence Research <i>sponsored by Chroma Technology Corp.</i> Dissecting the spatiotemporal subcellular organization of the human proteome
14:50	Niko Beerenwinkel Zurich, Switzerland	Learning tumor phylogenies from single cell data
15:30		Short Talk
15:50		Short Talk
16:10	<i>Coffee Break</i>	
	Session B Chair: tba	Systems Biology for Clinical Insights
16:40	Sam Behjati Hinxtton, UK	Taking single cell sequencing to the bedside – cancer and inflammation
17:20	6 x Poster Lightning Talks à 5 Minutes	
17:50 – 20:00	Welcome Reception and Poster Session 1	

Tuesday, May 28, 2019

Session B		Systems Biology for Clinical Insights continued
Chair: tba		
09:00	Marc Güell Barcelona, Spain	Precise and efficient editing of genomes for therapeutic purposes
09:40	Bodo Lange Berlin, Germany	Predictive computer modeling of drug response in cancer
10:20	<i>Coffee Break</i>	
Session C		Immunological Systems Dynamics
Chair: tba		
10:50	Carmen Molina-Paris Leeds, UK	Stochastic models of infection: <i>Francisella tularensis</i> and Ebola virus
11:30	Vincent Lotteau Lyon, France	Metabolic remodeling in response to Hexokinase isozyme switch
12:10	6 x Poster Lightning Talks à 5 Minutes	
		Lightning Talks
12:40	<i>Lunch Break and Poster Session 2</i>	
15:00	Matthias Merckenschlager London, UK	3-D genome folding enables inflammatory gene expression
15:40	Rob de Boer Utrecht, Netherlands	Modeling the dynamics and diversity of naive and memory T cells
16:20	<i>Coffee Break</i>	
16:50	Asya Rolls Haifa, Israel	Using the brain to control immunity: Implications for antibacterial immunity and cancer
Session D		Integration of Large-Scale Machine Learning Based Models with Fine Grained Mechanistic Models
Chair: tba		
17:30 – 18:10	Daniel Sonntag Saarbrücken, Germany	Interactive machine learning in medicine: Potentials and limitations
19:30	Conference Dinner	

Wednesday, May 29, 2019

Session D Chair: tba		Integration of Large-Scale Machine Learning Based Models with Fine Grained Mechanistic Models continued	
09:00	Petra Ritter Berlin, Germany	The Virtual Brain: Improving life through simulation	
09:40		Short Talk	Short Talks
10:00		Short Talk	
10:20	<i>Coffee Break</i>		
10:50	Jan Hasenauer Munich, Germany	Model-based integration of large-scale datasets	
11:30	Alexander Hoffmann Los Angeles, USA	Predicting immune cell responses and fate decisions – knowledge-based & data-driven models	
12:10	<i>Lunch</i>		
13:50	Robert Gütig Berlin, Germany	Learning across space and time in spiking neural networks	
14:30		Short Talk	Short Talks
14:50		Short Talk	
15:10	Bree Aldridge Boston, USA	The long short of it: Paths to engineering TB treatment	
15:50	Roland Eils Berlin, Germany	Closing remarks	
End of Meeting with Coffee & Cake			