

PRELIMINARY PROGRAM

Venue: Eva & Georg Klein Lecture Hall, Biomedicum, Karolinska Institutet

DATE	TIME	SESSION
15 June 2022	09:00-12:30	SESSION I: Systems Biology of Cancer
		Andrew E. Teschendorff, Chinese Academy of Sciences, Shanghai, China: <i>Single-cell entropy identifies preneoplastic cells of high stemness and cancer risk</i>
		Kristin Swanson, Mayo Clinic, Phoenix, USA: <i>Personalizing Brain Cancer Treatment: Sex, Drugs and Radiomics</i>
		Sven Nelander, Uppsala University, Sweden: <i>Charting the invasion routes of glioblastoma and their patient-specific vulnerabilities</i>
		2x Short talks TBD
	12:30-13:30	LUNCH
	13:30-17:00	SESSION II: Spatiotemporal analysis of disease models
		Garry Nolan, Stanford University, USA: <i>Cancer cheats the game rules of immune-tissue schematics</i>
		Lucas Pelkmans, University of Zurich, Switzerland: <i>Finding information in heterogeneity: from cellular decision making to personalized drug responses in clinical trials</i>
		Olivier Pertz, University of Bern, Switzerland: <i>Spatio-temporal MAPK signaling dynamics in breast cancer</i>
		Short talk: Ulf Landegren, Uppsala University, Sweden: <i>Tools for in situ detection of mutant transcripts and proteins in cancer tissue samples</i>
		Short talk: Jianjiang Hu, Karolinska Institutet, Sweden: <i>Local temporal Rac1-GTP nadirs and peaks restrict cell protrusions and retractions in migrating cancer cells</i>
	17:00-19:00	Poster Session (incl. drinks and snacks)

DATE	TIME	SESSION
16 June 2022	09:00-12:30	SESSION III: Systems Biology of Brain Disease
		Gioele La Manno, EPFL, Lausanne, Switzerland: <i>A spatial lipidomics atlas of the mouse brain</i>
		Jussi Taipale, University of Cambridge, UK, and Karolinska Institutet, Sweden: <i>Transcriptional control of cancer cell proliferation</i>
		Ernest Arenas, Karolinska Institutet, Sweden: <i>Systems biology of human midbrain development and Parkinson's disease</i>
		2x short talks TBD
	12:30-13:30	LUNCH
	13:30-17:00	SESSION IV: Host-pathogen interactions and responses to infection
		Luis Serrano, CRG, Spain: <i>Translational adaptations of human viruses to the infected tissues</i>
		Anna Överby, Umeå University, Sweden: <i>Cellular tropisms of tick-borne flavivirus infection in mouse brains</i>
		Joel Selkrig, EMBL, Heidelberg, Germany: <i>Global mapping of host-pathogen interactions</i>
		Short talk: Ylva Ivarsson, Uppsala University, Sweden: <i>Panviral discovery of motif-based virus-host protein-protein interactions</i>
		1 short talk TBD
	19:00-	Conference Dinner
17 June 2022	09:00-12:30	SESSION V: Data-driven methods for biomarker and drug discovery
		Andreas Califano, Columbia University, USA: <i>Systematic Elucidation and Pharmacologic Targeting of non-Oncogene Cancer Dependencies at the Single Cell Level</i>
		Sergio Baranzini, UCSF, USA: <i>Embedding of millions of electronic health records onto a biomedical knowledge graph to predict medical outcomes</i>
		Mika Gustafsson, Linköping University, Sweden: <i>Time-series multi-omic analysis for the identification of network-based models of multiple sclerosis</i>
	2x short talks TBD	