

FINAL PROGRAM

DATE	TIME	SESSION
15 June 2022	09:00-09:05	Welcome to ESM 2022, Staffan Strömblad
	09:05-12:00	SESSION I: Systems Biology of Cancer. Chair: Sven Nelander
	09:05-09:35	Andrew E. Teschendorff, Chinese Academy of Sciences, Shanghai, China: Single-cell entropy identifies preneoplastic cells of high stemness and cancer risk (online lecture)
	09:40-10:10	Sven Nelander, Uppsala University, Sweden: <i>Charting the invasion routes of glioblastoma and their patient-specific vulnerabilities</i>
	10:15-10:45	COFFEE BREAK
	10:45-11:15	Janne Lehtiö, Karolinska Institutet, Sweden: <i>Connecting cancer genotype with molecular phenotype with proteogenomics</i>
	11:20-11:35	Short talk: David Mauduit, KU Leuven, Belgium: <i>Deciphering and exploiting the enhancer regulatory code in melanoma states</i>
	11:40-11:55	Short talk: Michael Tyler, Weizmann Institute of Science, Israel: <i>The Curated Cancer Cell Atlas enables a comprehensive characterisation of intra-tumour heterogeneity</i>
	12:00-13:00	LUNCH
	13:05-16:00	SESSION II: Spatiotemporal analysis of disease models. Chair: Staffan Strömblad
	13:05-13:35	Garry Nolan, Stanford University, USA: <i>Cancer cheats the game rules of immune-tissue schematics</i> (online lecture)
	13:40-14:10	Olivier Pertz, University of Bern, Switzerland: Spatio-temporal MAPK signaling dynamics in breast cancer
	14:15-14:45	COFFEE BREAK



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15 June 2022	14:45-15:00	Short talk: Jianjiang Hu, Karolinska Institutet, Sweden : Local temporal Rac1-GTP nadirs and peaks restrict cell protrusions and retractions in migrating cancer cells
	15:05-15:20	Short talk: Liza Löf, Uppsala University, Sweden: <i>Monitoring drug responses by signaling pathways for precision medicine</i>
	15:25-15:55	Lucas Pelkmans, University of Zurich, Switzerland: Finding information in heterogeneity: from cellular decision making to personalized drug responses in clinical trials
	16:00-18:00	POSTER SESSION (incl. drinks and hors d'oeuvres)
16 June 2022	09:00-12:00	SESSION III: Systems Biology of Brain Disease. Chair: Sten Linnarsson
	09:00-09:30	Gioele La Manno, EPFL, Lausanne, Switzerland: A spatial lipidomics atlas of the mouse brain
	09:35-10:05	Jussi Taipale, University of Cambridge, UK, and Karolinska Institutet, Sweden: Transcriptional control of cancer cell proliferation
	10:10-10:40	COFFEE BREAK
	10:40-11:10	Ernest Arenas, Karolinska Institutet, Sweden: Systems biology of human midbrain development and Parkinson's disease
	11:15-11:30	Short talk: Victor Olariu Ahnell, Lund University, Sweden : 3D model of the neural tube with midbrain predictions
	11:35-11:50	Short talk 10x Genomics: Eduardo Villablanca, Karolinska Institutet, Sweden : Systems approach to identifying novel therapeutic targets to treat IBD
	11:55-13:00	LUNCH
	13:00-16:00	SESSION IV: Host-pathogen interactions and responses to infection. Chair: Ylva Ivarsson
	13:00-13:30	Joel Selkrig, EMBL, Heidelberg, Germany: Global mapping of host- pathogen interactions
	13:35-14:05	Anna Överby, Umeå University, Sweden: <i>Cellular tropisms of tick-borne flavivirus infection in mouse brains</i>
	14:10-14:40	COFFEE BREAK



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16 June 2022	14:40-15:10	Mika Gustafsson, Linköping University, Sweden : Time-series multi-omic analysis for the identification of network-based models of multiple sclerosis
	15:15-15:30	Short talk: Ylva Ivarsson, Uppsala University, Sweden: <i>Proteome-wide discovery of motif-mediated interactions in health and disease</i>
	15:35-15:50	Short talk: Leandro Simonetti, Uppsala University, Sweden: A pan-viral atlas to the short linear motif-based hijacking of human proteins
	18:00-	CONFERENCE DINNER
17 June 2022	09:00-12:00	SESSION V: Data-driven methods for biomarker and drug discovery. Chair: Mika Gustafsson
	09:00-09:30	Luis Serrano, Center for Genomic Regulation, Spain: Translational adaptations of human viruses to the infected tissues (online lecture)
	09:35-10:05	Andrea Califano, Columbia University, USA: Systematic Elucidation and Pharmacologic Targeting of non-Oncogene Cancer Dependencies at the Single Cell Level
	10:10-10:40	COFFEE BREAK
	10:40-11:10	Sergio Baranzini, University of California, San Francisco, USA: <i>Embedding of millions of electronic health records onto a biomedical</i> <i>knowledge graph to predict medical outcomes</i>
	11:15-11:30	Short talk: Andrey Alexeyenko, Karolinska Institutet, Sweden: <i>Discovery</i> of drug response biomarkers and cancer driver genes: a deep data mining approach via network analysis
	11:35-11:50	Short talk: Carmen Bravo Gonzalez-Blas, KU Leuven, Belgium : <i>The regulatory code of liver zonation</i>
	11:55-12:00	Closing remarks, Staffan Strömblad
	12:00-13:00	LUNCH

