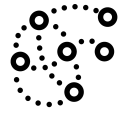


Sixth Annual CytoData Society Meeting 2021

Wednesday October 13

13:00	Welcome and Introduction	Fuad Mosis Davide Danovi Lassi Paavolainen Greetings from bit.bio and CytoData
13:10	Methods In this session we will hear from researchers who have developed unique methods for image analysis and computational workflows to enable the characterisation of cells from microscopic imaging.	Heba Sailem (Chair) Sir Henry Wellcome Research Fellow University of Oxford Intuitive visualisation of bioimaging data using ShapoGraphy Dario Bressan CRUK Cambridge Institute University of Cambridge Multi-modal spatial analysis of breast cancer in the IMAXT Grand Challenge project Hanneke Okkenhaug Babraham Institute Social distancing in the lymph node; Using image analysis to look at the germinal centre microenvironment. Janos Kriston-Vizi MRC Laboratory for Molecular Cell Biology 3D high-content screening for identification of autophagy modulators + Selected Abstract
	Mytos	Flash Talk
14:40	Break	Break-out room (informal discussion with speakers)
15:00	Stem Cells Experts in the field will present workflows to analyse and quantify stem cell behaviour enabling a range of applications from studying of cell lineages to manufacturing of cells as tools and therapeutics.	Rafael Carazo Salas (Chair) Professor at the School of Cellular and Molecular Medicine University of Bristol Predicting 'live' cell fate dynamics in hPSCs by deep learning-enhanced morphological phenotyping Kristina Ulicna University College London Automated deep lineage tree analysis using a Bayesian single cell tracking approach Lorenzo Veschini King's College London High content image analysis and multiscale cell simulations to investigate emerging cellular heterogeneity in endothelia + Selected Abstracts
	Micrographia	Flash Talk
16:30	Break	Break-out room (informal discussion with speakers)
16:50	Introduction to Hackathon	Human induced pluripotent stem cells - The good, the bad and the ugly
17:00	Supervised Hacking	

Thursday October 14



CytoData

13:00	Introduction	Welcome and update
13:15	<p>Academia-Pharma-CRO bit.bio is passionate about the impact academic research has within industry, specifically for pharmaceutical companies and contract research organisations. We bring all stakeholders together in this session.</p>	<p>Marc Bickle (Chair) Head of Organoid Phenotyping Roche Institute for Translational Bioengineering</p> <p>Srinivas Niranj Chandrasekaran Broad Institute of MIT and Harvard JUMP-Cell Painting experimental updates</p> <p>Paula Marin Zapata Bayer Pharma JUMP-Cell Painting computational updates</p> <p>Shushant Jain Charles River Laboratories Use of physiologically relevant models for high throughput-high content screening</p>
	CytoSmart	+ Selected Abstract Flash Talk
14:35	Break	Break-out room (informal discussion with speakers)
15:00	<p>Primary Cells Technology experts will discuss how analysis and quantification of the behaviour of primary human cells from patients can advance disease modelling and drug discovery towards precision medicine.</p>	<p>Berend Snijder (Chair) Professor at the Institute of Molecular Systems Biology ETH Zurich Next-gen personalized medicine by image-based screening in human tissues</p> <p>Charlotte Desprez University College London Phenotypic study of human primary skeletal muscle progenitor cells using imaging</p> <p>Brinton Seashore-Ludlow Karolinska Institutet Leveraging high content in patient-derived models for drug repurposing and discovery</p> <p>Vilja Pietiäinen Institute for Molecular Medicine Finland Patient-derived cells in functional precision medicine of solid tumors</p>
	Core Life Analytics	+ Selected Abstract Flash Talk
16:30	Concluding Remarks	
16:40	Break	Break-out room (informal discussion with speakers)
17:00	Supervised Hacking	

Friday October 15

13:00	Introduction
14:00	Highlights and conclusions
