

Program of SIBS2017

Start	End	Speaker and Title	Session Topic
Day 1 - 12th Oct. 2017			
08:30h	10:00h	Registration, Coffee and Poster Mounting	
10:00h	10:15h	Roger Meier , ETHZ, Switzerland Gerardo Turcatti , EPFL, Switzerland	Welcome and Introduction
10:15h	10:45h	Bernd Bodenmiller UZH, Zurich, Switzerland "Highly multiplexed imaging of tissues with subcellular resolution by imaging mass cytometry"	Imaging modalities Part 1 Chair: Gerardo Turcatti EPFL, Lausanne, Switzerland
10:45h	11:15h	Rémi Galland IINS, University of Bordeaux, France "Improving throughput and penetration depth of single-molecule-localization microscopy"	
11:15h	11:30h	Blandine Avignon F. Hoffmann - La Roche, Basel, Switzerland "Live Imaging of Drug-Induced Epithelial Barrier Disruption"	Short Presentation / Various topics Chair: Marc Chambon EPFL, Lausanne, Switzerland
11:30h	11:45h	Anne Beghin Université de Bordeaux, Bordeaux, France "When high content screening meets super-resolution microscopy"	
11:45h	11:50h	Vasco Campos EPFL, Lausanne, Switzerland "High-throughput, non-perturbing quantification of lipid accumulation using Digital Holographic Microscopy"	Snapshot Presentation / Various topics Chair: Roger Meier ETHZ, Zurich, Switzerland
11:50h	11:55h	Reinoud de Groot UZH, Zurich, Switzerland "Image-based profiling of CRISPR-Cas9 gene perturbation phenotypes"	
11:55h	12:00h	Bo kyong Kim EPFL, Lausanne, Switzerland "Non-perturbing Cardiomyocytes Beating quantification with Digital Holographic Microscopy"	
12:00h	13:30h	Lunch, Poster Session and Vendor Show	
13:30h	13:35h	Dmitry Kopelyanskiy University of Lausanne, Lausanne, Switzerland "Development of a semi-automated image-based high-throughput drug screening system and its application to repurpose drugs for the treatment of metastatic leishmaniasis"	Snapshot Presentation / Various topics Chair: Roger Meier ETHZ, Zurich, Switzerland
13:35h	13:40h	Lassi Paavolainen FIMM, University of Helsinki, Finland "Image-based phenotypic profiling of patient-derived cancer cells"	
13:40h	13:45h	Stephan Steigele Genedata, Basel, Switzerland "A comprehensive workflow enables the practical use of Deep Learning for pharma relevant research applications"	
13:45h	14:15h	Marc Bickle MPI-CBG, Dresden, Germany "Finding mode of action of compounds by comparing phenotypic fingerprints with RNAi induced fingerprints"	Advances in screening technology and assay Part 1 Chair: Sannah Jensen Zoffmann F. Hoffmann - La Roche, Basel, Switzerland
14:15h	14:45h	Nathalie Maubon HCS Pharma, Rennes, France "3D culture in phenotypic screening: advantages, process changes and new technologies needed"	
14:45h	15:45h	Coffee, Poster Session and Vendor Show	
15:45h	16:15h	David W. Andrews Sunnybrook Research Institute University of Toronto, Canada "High content analysis of subcellular structures for image based screening"	Advances in screening technology and assay Part 2 Chair: Sannah Jensen Zoffmann F. Hoffmann - La Roche, Basel, Switzerland
16:15h	16:45h	Michael Raghunath ZHAW, Wädenswil, Switzerland "Fine-tuning of the 3D microarchitecture of MSC-produced extracellular matrix in monolayer and hydrogel culture by macromolecular crowding"	
16:45h	17:15h	Leo Price Ocello B.V., Leiden, Netherlands "Screening and profiling of cancer therapeutics in primary and stem cell-derived Human 3D Tissues"	
17:15h	18:00h	General Discussion	General Discussion Chair: Christian Parker Novartis, Basel, Switzerland
18:30 h		Bus departure	
19:00 h		Conference Dinner	

Start	End	Speaker and Title	Session Topic
Day 2 - 13th Oct. 2017			
09:00h	09:30h	Oliver Dürr ZHAW, Winterthur, Switzerland Deep Learning for single cell phenotype classification in High-Content Screening	Image and data analysis Chair: Michael Prummer ETHZ, Zurich, Switzerland
09:30h	10:00h	Ville Härmä Misvik Biology, Turku, Finland "High-content screening of 3D cancer cells cultures: Multiparametric image analysis tools for quantification of functional and morphological drug responses"	
10:00h	10:30h	Malte Wachsmuth EMBL, Heidelberg, Germany TBA	
10:30h	11:30h	Coffee, Poster Session and Vendor Show	
11:30h	11:45h	William Godinez Novartis, Basel, Switzerland "Deep learning for phenotyping high-content cellular images"	Short Presentation / Various topics Chair: Marc Chambon EPFL, Lausanne, Switzerland
11:45h	12:00h	Vilja Pietiäinen University of Helsinki, Helsinki, Finland "Precision cancer medicine based on 3D drug profiling of patient-derived cancer cell spheroid models"	
12:00h	13:30h	Lunch, Poster Session and Vendor Show	
13:30h	14:00h	Olivier Frey InSphero AG, Schlieren, Switzerland "Increasing through-put of high-content imaging for 3D microtissues in static and flow culturing conditions"	Model systems in screening Chair: Thomas Horn D-BSSE, Basel, Switzerland
14:00h	14:30h	Prisca Liberali FMI, Basel, Switzerland "Screening for self-organization in intestinal organoid"	
14:30h	15:00h	Sylke Hoehnel SUN Bioscience, EPFL, Lausanne, Switzerland "Developing scalable clinically relevant drug tests tailored to the patient"	
15:00h	15:30h	Coffee, Poster Session and Vendor Show	
15:30h	16:00h	Katharina Hötte Goethe University Frankfurt am Main, Frankfurt am Main, Germany "Observing three-dimensional biological specimens with light sheet-based fluorescence microscopy (LSFM)"	Imaging modalities Part 2 Chair: Gerardo Turcatti EPFL, Lausanne, Switzerland
16:00h	16:30h	Fabien Kuttler BSF, EPFL, Lausanne, Switzerland "Label-free multidimensional phenotypic screening by imaging with mode of action predictability"	
16:30h	17:00	General Discussion and Closing of Conference	General Discussion Chair: Marc Bickle MPI, Dresden, Germany