7th Annual Conference
SBI² High Content
A LabRoots Hosted Virtual Meeting

Date	Time	Track	Presentation Title	Speaker
16-Sep	11:00 - 12:00 PM EDT		Keynote Presentation: Putting Machine Learning Models into Large Scale Production for Drug Discovery	Lina Nilsson, PhD Vice President of Product, Overseeing Data Science, Engineering and Innovation Biology Initiatives at Recursion
16-Sep	12:15 - 12:45 PM		High-resolution HCA-based phenotypic profiling of tumor spheroids and organoids	Meritxell B. Cutrona, PhD High Throughput Bioscience Center, St. Jude Children's Research Hospital
16-Sep	12:15 - 01:15 PM		Session I - Assay Development & High Content Screening Case Histories	Session Chair: Juliana Conkright-Fincham Stowers Institute for Medical Research Session Chair: Taosheng Chen St. Jude Children's Research Hospital
16-Sep	12:45 - 01:15 PM		GFP Complementation Screening of the Yeast Inner Nuclear Membrane Proteome	Jay Unruh, PhD Stowers Institute for Medical Research
16-Sep	01:30 - 02:00 PM		Multiplexed Imaging to Understand the High-Dimensional Pathology of Human Cancer	Sandro Santagata, MD, PhD Brigham and Women's Hospital
16-Sep	01:30 - 02:30 PM		Session II - High Content Imaging Innovations	Session Chair: David Andrews Sunnybrook Research Institute Session Chair: Jeffrey Moffitt Boston Children's Hospital
16-Sep	02:00 - 02:30 PM		Mapping Tissues with In Situ Single-Cell Transcriptomics	Jeffrey Moffitt, PhD Boston Children's Hospital
17-Sep	11:00 - 12:00 PM		Keynote Presentation: Adding Dimensions to Intravital Imaging	Scott Fraser, PhD Professor of Biology, Bioengineering, & Convergent Biosciences University of Southern California
17-Sep	12:15 - 12:45 PM		Metabolic imaging of cellular heterogeneity in patient-derived cancer organoids	Melissa C. Skala, PhD Morgridge Institute for Research, Madison WI

17-Sep	12:15 - 01:15 PM		Session III - High Content Imaging Applications to Tissue Engineering	Session Chair: Shilpa Sant University of Pittsburgh School of Pharmacy Session Chair: Kyle P. Quinn University of Arkansas
17-Sep	12:45 - 01:15 PM		Stimuli-responsive Nanomaterials for Imaging Immunotherapy Response	Ashish Kulkarni, PhD Institute for Applied Life Sciences, University of Massachusetts Amherst
17-Sep	01:30 - 02:00 PM		Decoding the Variance in Intracellular Organization in Human Stem Cells	Susanne Rafelski, PhD Cell Science at Allen Institute
17-Sep	01:30 - 02:30 PM		Session IV - Maximizing the Value of your Imaging Data	Session Chair: David Van Valen Caltech Session Chair: Khuloud Jaqaman UT Southwestern Medical Center
17-Sep	02:00 - 02:30 PM		MAPK Activity Dynamics Regulate Non-Cell Autonomous Effects of Oncogene Expression	Sergi Regot, MS, PhD Johns Hopkins School of Medicine
22-Oct	11:00 - 12:00 PM		Impact of Segmentation Quality on Assay Endpoints - Deep Learning for High Content Screening	Fuhui Long, PhD Staff Analytics Engineer, Cytiva
26-Oct	11:00 - 12:00 PM		Introduction to FLIM-FRET techniques	David Andrews, PhD Director Biological Sciences, Sunnybrook Research Institute
5-Nov	11:00 - 12:00 PM		Image and Data Processing for HCS toxicology	David Egan, PhD CEO & Cofounder, Core Life Analytics
18-Nov	11:00 - 12:00 PM		Basic Concepts in Imaging-based High-Throughput Screening and High-Throughput Profiling Assay Development	Joshua Harrill, PhD Toxicologist, United States Environmental Protection Agency
9-Dec	11:00 - 12:00 PM		Introduction to Image Processing for High-Content Screening	Mark-Anthony Bray, PhD Data Scientist, Novartis Institutes for BioMedical Research
3-Feb	12:30 - 01:30 PM		Optimizing High-Content Imaging of 3D Models for Drug Discovery	Arvonn Tully Senior Software Application Specialist, Yokogawa Life Innovations Judi Wardwell-Swanson Senior Application Scientist, InSphero AG