



SBI2 High Content 2018
5th Annual Conference
September 18-20th 2018
Joseph B Martin Conference Center
Harvard Medical School, Boston, Massachusetts

For complete program and registration visit SBI2.org

Additional speakers will be selected from submitted abstracts

Poster presentations selected from submitted abstracts

Tuesday, 18 September

SBI² Educational Courses Program

Assay types and development, Image and data analysis, New technologies, Flow-cytometry and imaging mass-spec, Phenotypic screening, Statistical analysis, Systems biology, CRISPR Technology, Machine Learning, Statistical Analysis of Screening Data.

Lunch-and-learn session on machine learning and HCS

Colloquium

How are Emerging Technologies in Disease Models, High content imaging and Data analytics changing our approach to Drug Discovery?

September 19-20: Main Conference

Keynotes

- **Professor Kurt Schalper, Translational Immuno-Oncology Laboratory, Yale University.** “Understanding the immune composition and therapeutic vulnerabilities of human solid tumors using spatially resolved tissue analyses”.
- **Professor Richard White, Cancer Biology and Genetics Program, Memorial Sloan Kettering Cancer Center, New York.** “Imaging metastasis using zebrafish models of cancer.”

Session 1: Novel Technologies and Applicability of High Content Screening

- **Adela Ben-Yakar, FentoLAB, The University of Texas, Austin.** “A large scale microfluidic platform in 96- and 384-well formats for high content screening of *C. elegans*.”
- **Christopher Obara, Janelia Farms/HHMI, Ashburn, VA.** “High speed, multiplexed super-resolution imaging to uncouple nano-domain function in living cells.”

Session 2: Preclinical High Content Applications and Impact/ Translation to the Clinic

- **Rachelle Prantil-Baun, Wyss Institute for Biologically Inspired Engineering, Harvard University, Boston, MA.** “Human organ on chips in translational biology.”
- **John Graef, Fulcrum Therapeutics, Boston, MA.**

Session 3: Advancing and Expanding 3D and 4D Imaging Modes

- **Thierry Dorval, Servier, Université Pierre et Marie Curie, Paris, France.** “Practical high content analysis for drug discovery.”
- **Geoffrey Bartholomeusz, Department of Experimental Therapeutics, Division of Cancer Medicine, The University of Texas MD Anderson Cancer Center, Houston, TX.** “Predictive value of 3D models for identifying tumor-specific therapies.”

Session 4: New Insights, New Opportunities: Machine Learning and Multi-Parametric Analytics

- **Arvind Rao, University of Michigan Medical School, Ann Arbor, MI.** “Enabling drug and target discovery in high content imaging using machine learning based workflows.”
- **Chris Bakal, The Institute of Cancer Research, London, UK.** “Translating the language of cell shape.”

2018 meeting registration

Member: Professional	\$550
Member: Student & Post-Doc	\$250
Non-Member: Professional	\$700
Non-Member: Student & Post-Doc	\$325

*Non-member rate includes SBI² annual membership

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