

Deconvolution of Pooled shRNA Library Screens using Microarray Technology

Featured Speakers:

Dr. Jef Boeke (JHMI High Throughput Biology Center)

Dr. William Hahn (Dana Farber Cancer Institute & Harvard Medical School)

Dr. Rafael Irizarry (Bloomberg School of Public Health)

Dr. Yu-yi Lin (National Taiwan University)

Dr. David Root (Broad Institute of MIT & Harvard)



April 26-28, 2011 at Johns Hopkins University School of Medicine
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Workshop Agenda

Module I: Pooled shRNA Screening

- Introduction to shRNA and Lentiviral Delivery Systems
- Lentiviral Transduction Process
- Experimental Design and Rationale
- Screening Strategies
- Downstream Assays
- Lab Practical: DNA preparation from screened cells

Module II: Microarrays and Deconvolution

- Microarray Theory
- Microarray Practical: Hybridization, washing and scanning*
- Deep Sequencing Theory and Practice
- Lab Practical: Microarray hybridization, washing and scanning

Module III: Data Analysis and Interpretation

- Microarray and deep sequencing data analysis
- Microarray and deep sequencing statistics
- Data analysis and interpretation

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