

Assay Guidance Workshop for High-Throughput Screening and Lead Discovery

September 11, 2019 - September 12, 2019
Pfizer Kendall Square ■ 1 Portland Street ■ Cambridge, MA 02139

AGENDA: Day 1

- 8:00 AM Registration and Check In
- 8:30 AM **Robust Assays Define Success in Preclinical Research**
Nathan P. Coussens, Frederick National Laboratory for Cancer Research
- 8:45 AM **Target Qualification Strategies**
Yueming Wang, Pfizer
- 9:30 AM **Practical Phenotypic Screening**
Fabien Vincent, Pfizer
- 10:15 AM Break
- 10:30 AM **Concepts in the Development and Validation of Robust Cell-Based and Biochemical Assays**
Timothy L. Foley, Pfizer
- 11:15 AM **Treating Cells as Reagents to Design Replicable Assays**
Terry Riss, Promega Corporation
- 12:00 PM Lunch
- 1:00 PM **Assay Interpretation: Studies in Mechanisms and Methods in Assay Interferences**
Douglas Auld, Novartis Institutes for BioMedical Research
- 1:45 PM **Bioassay Interference by Aggregation and Chemical Reactivity**
Jayme L. Dahlin, Brigham and Women's Hospital, Harvard Medical School, Broad Institute
- 2:30 PM **Biophysical Approaches to Small Molecule Discovery and Validation**
Kirk Wright, Novartis Institutes for BioMedical Research
- 3:15 PM Break
- 3:30 PM **Leveraging Mass Spectrometry-Based Assays to Make Significant Impacts in Early Lead Discovery**
Scott A. Busby, Novartis Institutes for BioMedical Research
- 4:15 PM **HCS Assay Development**
Joe Trask, PerkinElmer
- 5:00 PM End of Day 1

(over)



AGENDA: Day 2

- 8:00 AM Registration and Check In
- 8:30 AM **The Application of Stem Cells in Drug Discovery**
Marcie Glicksman, Orig3n
- 9:15 AM **Kinetics of Target Binding: Kinetic Artifacts in Potency Assays and Methods for Measuring Binding Kinetics**
Sam Hoare, Pharmeconomics, LLC
- 10:00 AM **Basic Assay Statistics, Data Analysis and Rules of Thumb**
Ji-Hu Zhang, Novartis Institutes for BioMedical Research
- 10:45 AM Break
- 11:00 AM **A Simple Metric for Comparing Compound Potency Results and Characterizing Assay Reproducibility**
Viswanath Devanarayan, GlaxoSmithKline
- 11:45 AM **Assay Operations: Keeping Your Assays Robust and Reproducible**
Jeffrey R. Weidner, QualSci Consulting, LLC
- 12:30 PM Lunch
- 1:30 PM **Best Practices in Compound Management**
Rosalia Gonzales and Travis J. Mathewson, Pfizer
- 2:15 PM **Approaches for Multi-Parametric Phenotypic High-Throughput Screening**
Steve Ryan and Nathaniel Delaney-Busch, Q-State Biosciences
- 3:00 PM Break
- 3:15 PM **Lead Selection and Optimization by Medicinal Chemistry**
Samarjit Patnaik, NCATS/NIH
- 4:00 PM **ADME Assay Optimization**
Li Di, Pfizer
- 5:00 PM Adjourn