

Assay Guidance Workshop for High-Throughput Screening and Lead Discovery

Wednesday November 18, 2020 – Thursday November 19, 2020 Virtual (All times are in EST)

AGENDA: Day 1

8:30 AM	Introduction and Opening Remarks Christopher P. Austin, National Center for Advancing Translational Sciences (NCATS), National Institutes of Health (NIH)
8:40 AM	Robust or Go Bust: An Introduction to the Assay Guidance Manual Sarine Markossian and G. Sitta Sittampalam, NCATS, NIH
9:00 AM	Target Qualification Strategies Yueming Wang, Pfizer
9:45 AM	Strategies for Assay Selection and for the Development of Robust Biochemical Assays Nathan P. Coussens, Frederick National Laboratory for Cancer Research
10:30 AM	Break
10:45 AM	Treating Cells as Reagents to Design Reproducible Assays Terry Riss, Promega Corporation
11:30 AM	HCS Assay Development Joe Trask, PerkinElmer
12:15 PM	Break
12:30 PM	Virtual lunch roundtables – Day 1 Cell based assays Host: Terry Riss, Promega Corporation Biochemical assays Host: Douglas Auld, Novartis Institutes for BioMedical Research Translational science careers Host: Mike Tarselli, TetraScience
1:30 PM	Biophysical Approaches to Small Molecule Discovery and Validation Michelle Arkin, University of California, San Francisco
2:15 PM	Compound-Mediated Interferences in Homogenous Proximity Assays Jayme L. Dahlin, Brigham and Women's Hospital, Harvard Medical School, Broad Institute
3:00 PM	<i>In Vitro</i> Toxicological Testing using a qHTS Platform Menghang Xia, NCATS, NIH
3:45 PM	Break
4:00 PM	Lead Selection and Optimization by Medicinal Chemistry Samarjit Patnaik, NCATS, NIH
4:45 PM	In Vitro Assessments of ADME Properties of Lead Compounds Xin Xu, NCATS, NIH

5:30 PM Virtual Happy Hour



AGENDA: Day 2

8:50 AM	Opening Note Sarine Markossian and G. Sitta Sittampalam, NCATS
9:00 AM	Basic Assay Statistics, Data Analysis & Rules of Thumb (ROT) Thomas D.Y. Chung, Sanford Burnham Prebys Medical Discovery Institute
9:45 AM	Reproducibility Assessment of <i>In Vitro</i> Screening Results Viswanath Devanarayan, GlaxoSmithKline
10:30 AM	Break
10:45 AM	Assay Operations: Keeping Your Assays Robust and Reproducible Jeffrey R. Weidner, QualSci Consulting, LLC
11:30 AM	Kinetics of Target Binding: Impact on Drug Activity from Bench to Bedside Sam Hoare, Pharmechanics, LLC
12:15 PM	Break
12:30 PM	Virtual lunch roundtables - Day 2 Data analysis Host: Viswanath Devanarayan, GlaxoSmithKline New drug discovery technologies Host: Timothy L. Foley, Pfizer Translational science careers Host: Marcie Glicksman, EnClear Therapies
1:30 PM	Why You Want to Use Stem Cells for Drug Discovery Marcie Glicksman, EnClear Therapies
2:15 PM	Building the Efficient Discovery of Actionable Chemical Matter from DNA-Encoded Libraries Timothy L. Foley, Pfizer
3:00 PM	Break
3:15 PM	Antibody Binding Sites as Therapeutics: From scFv to VHH and VNAR Mitchell Ho, National Cancer Institute (NCI), NIH
4:00 PM	COVID19 and Therapeutics: The NCATS Experience Matthew D. Hall, NCATS, NIH
4:45 PM	Closing Remarks Anton Simeonov, NCATS, NIH
4:55 PM	Open discussion and additional Q&A
5:00 PM	Adjourn