

Assay Guidance Workshop for High-Throughput Screening and Lead Discovery

Tuesday Sept 24, 2024 – Wednesday Sept 25, 2024 1 Lilly Corporate Ctr, Indianapolis, IN 46285

AGENDA: Day 1

10:00 AM Opening Remarks

John Strelow, Eli Lilly and Company

The NCATS Assay Guidance Manual Program: Advancing the Practice and Rigor of Preclinical

Translation

Sarine Markossian, National Center for Advancing Translational Sciences (NCATS), National Institutes of

Health (NIH)

10:20 AM Session 1: Target ID/Validation and Assay Development

Chair: Stefan Grotegut, Loxo@Lilly

10:20 AM Phenotypic Drug Screening: "You Get What You Look For"

Chuck Dorsey, Eli Lilly and Company

11:05 AM Strategies for Assay Selection and for the Development of Robust Biochemical

Assays

Nathan Coussens, Frederick National Laboratory for Cancer Research

11:50 AM Treating Cells as Reagents and Measuring Viable, Dead, or Apoptotic Cell Number

as Orthogonal Controls to Design Reproducible Assays

Terry Riss, Promega Corporation

12:35 PM Lunch Break

1:30 PM Session 2: HTS Assay Interpretation, Statistics and Data Analysis

Chair: Allison Norvil, Eli Lilly and Company

1:30 PM Assay Interference: Mechanisms and Methods

Michael A. Walters, University of Minnesota

2:15 PM Basic Assay Statistics, Data Analysis & Rules of Thumb (ROT)

Thomas Chung, Sanford Burnham Prebys Medical Discovery Institute

3:00 PM Break

3:30 PM Session 2: (continued)

3:30 PM Reproducibility Assessment of *In Vitro* Screening Results

Philip Iversen, Luther College

4:15 PM AGM Data Analysis Webtools Hands-on Training

Philip Iversen, Luther College Jason Manro, Eli Lilly and Company Jeffrey Weidner, QualSci Consulting

5:00 PM **Networking Social**



AGENDA: Day 2

8:30 AM – 9:30 AM	Tour of Eli Lilly Museum	
9:50 AM	Welcome and Today's Agenda Sarine Markossian, NCATS, NIH	
10:00 AM		Ophysical Approaches Markossian, NCATS, NIH Small Molecule Discovery and Target Interaction Validation Using Biophysical Techniques Michael Ronzetti, NCATS Introduction to Mass Spectrometry for Drug Screening and Lead Optimization Mackenzie Pearson, Eli Lilly and Company
		ad Optimization Markossian, NCATS, NIH
	11:30 AM	In Vitro Assessments of ADME Properties of Lead Compounds Michael Mohutsky, Eli Lilly and Company
12:15 PM	Lunch Break	
1:15 PM	Session 4: (co 1:15 PM	ontinued) Assay and Flowscheme Building for siRNA Therapeutics Marjoke F. Debets, Eli Lilly and Company
2:00 PM	Session 5: New Modalities and Novel Trends Chair: Mackenzie Pearson, Eli Lilly and Company	
	2:00 PM	ADC Assay Development and Design, Best Practices Carmen M Pérez, Eli Lilly and Company
2:45 PM	Break	
3:15 PM	Session 5: (continued) 3:15 PM Drug Screening with Engineered 3D Tissue Models Marc Ferrer, NCATS, NIH	
	4:00 PM	Building the Efficient Discovery of Actionable Chemical Matter from DNA-Encoded Libraries Timothy Foley, Pfizer
4:45 PM	Open discussion and additional Q&A	
5:00 PM	Adjourn	