

## Assay Guidance Workshop for High-Throughput Screening and Lead Discovery

Wednesday April 9, 2025 – Thursday April 10, 2025 NUVISAN Innovation Campus Berlin, Berlin, Germany

AGENDA: Day 1

9:00 AM	Opening Remarks  Matthew Hall, National Center for Advancing Translational Sciences (NCATS), National Institutes of Health (NIH)  Donald Lo, European Infrastructure for Translational Medicine (EATRIS)
	Bahne Stechmann, EU-OPENSCREEN Charlotte Kopitz, NUVISAN ICB GmbH
9:20 AM	The NCATS Assay Guidance Manual Program: Advancing the Practice and Rigor of Preclinical Translation Sarine Markossian, NCATS, NIH
9:30 AM	Pooled CRISPR Screening in Target Identification, Mechanism-of-Action Elucidation and Drug-Target Interaction Studies Bernhard Schmierer, Karolinska Institutet and SciLifeLab
10:15 AM	Strategies for Assay Selection and for the Development of Robust Biochemical Assays Nathan P. Coussens, Frederick National Laboratory for Cancer Research
11:00 AM	Break
11:30 AM	Treating Cells as Reagents and Measuring Viable, Dead, or Apoptotic Cell Number as Orthogonal Controls to Design Reproducible Assays Terry Riss, Promega Corporation
12:15 PM	High Content Screening Assay Development Based on the Cell Painting Assay Christopher Schmied, EU-OPENSCREEN
1:00 PM	Lunch Break
2:00 PM	Drug Screening with 3D Cellular Models Patrick Steigemann, NUVISAN ICB GmbH
2:45 PM	Biophysical Approaches to Small Molecule Discovery and Validation Michelle Arkin, University of California, San Francisco
3:30 PM	Break
4:00 PM	Introduction to Mass Spectrometry for Drug Screening and Lead Optimization Mackenzie Pearson, Eli Lilly and Company
4:45 PM	HTS Case Studies – A Target-based Biochemical Screen to Identify KRAS/SOS1 Inhibitors and a Cell-based Hippo Pathway Screen with Subsequent Target Deconvolution Benjamin Bader and Barbara Nicke, NUVISAN ICB GmbH
5:45 PM	Open discussion and additional Q&A/ Adjourn
6:00 PM	Networking Social



## AGENDA: Day 2

8:50 AM	Welcome and Today's Agenda Sarine Markossian, NCATS, NIH
9:00 AM	Assay Interpretation: Studies in Mechanisms and Methods in Assay Interferences Douglas Auld, Novartis Institutes for BioMedical Research
9:45 AM	Virtual Screening/ Computational Drug Discovery/ Assay Interference Predictions Alexey Zakharov, NCATS
10:30 AM	Break
11:00 AM	Integrated Strategies for Hit-to-Lead Optimization Rui Moreira, imed
11:45 AM	In Vitro Assessments of ADME Properties of Lead Compounds Xin Xu, NCATS, NIH
12:30 PM	Lunch Break
1:30 PM	Basic Assay Statistics, Data Analysis & Rules of Thumb (ROT) Thomas D.Y. Chung, Sanford Burnham Prebys Medical Discovery Institute
2:15 PM	Reproducibility Assessment of In Vitro Screening Results Jason Manro, Eli Lilly and Company
3:00 PM	Break
3:30 PM	Patient-centric Approaches in Preclinical Studies – Case Study from the REMEDi4ALL Project Brinton Seashore-Ludlow, Karolinska Institutet and SciLifeLab
4:15 PM	Pannel Discussion/Closing Session: Global Challenges and Opportunities in Establishing and Implementing Best Practices in Early Drug Discovery Chair: Martin de Kort, EATRIS Panelists: Matthew Hall, NCATS; Donald Lo, EATRIS; Phil Gribbon, EU-OPENSCREEN; Holger Steuber NUVISAN ICB GmbH; Michelle Arkin, University of California, San Francisco
5:00 PM	Adjourn

## **FACILITIES TOUR – Optional Addition to Registration**

Friday April 11, 2025

**AGENDA** 

8:30 AM - 10:00 AM **NUVISAN Innovation Campus Berlin Facilities Tour** 

10:00 AM Shuttle to EU-OPENSCREEN

11:00 AM – 12:30 PM **EU-OPENSCREEN Facilities Tour** 

