

# Drug Discovery Workshop Series

## ITN-DRIVE

**Day 1: 14:00-16:30, Friday 26 March 2021**

**Day 2: 14:00-16:30, Friday 2 April 2021**

**Day 3: 14:00-16:30, Friday 9 April 2021**

**Day 4: 14:00-16:30, Friday 16 April 2021**

Fraunhofer Institute for Translational Medicine and Pharmacology ITMP,  
Schnackenburgallee 114, 22525 Hamburg, Germany



Registration deadline: 20 March 2021.  
Send completed Registration and Pre-Workshop Questionnaire at end of brochure.

# Overview

## Presentations

Exciting and informative lectures covering the following topics:

- Introduction to drug discovery.
- From drug target to Lead compound and Clinical candidate - overview and general concepts.
- General concepts for biochemical and cell-based assay development & screening.
- Case studies from DRIVE ITN partners: drug, siRNA and CRSPR/Cas9 screens.
- The current status of drug discovery in industry, biotech and academia.
- Career choices in drug discovery.

## Local Organizing Committee & Trainers



**Dr. Sheraz Gul**  
Fraunhofer ITMP



**Katharina Sporbeck**  
University of Tuebingen



**Dr. Mario Mauthe**  
University Medical Center  
Groningen



**Dr. Laura Rodriguez de  
la Ballina**  
University of Oslo

# Program

## Day 1: 14:00-16:30, Friday 26 March 2021

- 14:00 - 14:30 Overview of Drug Discovery Workshop Series & 1 minute Introduction from all participants
- 14:30 - 15:00 Compound characteristics: Hit, Lead, Probe & Candidate molecule
- 15:00 - 15:30 Break
- 15:30 - 16:15 Katharina Sporbeck: *Employment of WIPI beta-propeller proteins for fluorescence-based, automated high-throughput analyses to assess autophagy in mammalian cells*
- 16.15 - 16:30 Q&A

## Day 2: 14:00-16:30, Friday 2 April 2021

- 14:00 - 14:30 Best practice in biochemical and cell-based assay development
- 14:30 - 15:00 Cell-based assay case study: kinase assay development and screen
- 15:00 - 15:30 Break
- 15:30 - 16:15 Dr. Mario Mauthe: *An ATG-specific siRNA screen to identify the extent of the unconventional functions of the autophagy proteome in virus replication*
- 16.15 - 16:30 Q&A

## Day 3: 14:00-16:30, Friday 9 April 2021

- 14:00 - 14:30 Biochemical assay case study: protease assay development and screen
- 14:30 - 15:00 Role of ADMET in drug discovery
- 15:00 - 15:30 Break
- 15:30 - 16:15 Dr. Laura Rodriguez de la Ballina: *Image-based siRNA screens to identify autophagy regulators*
- 16.15 - 16:30 Q&A

## Day 4: 14:00-16:30, Friday 16 April 2021

- 14:00 - 14:30 Current status of drug discovery in industry, biotech and academia
- 14:30 - 15:00 Career choices in drug discovery
- 15:00 - 15:30 Q&A
- 15:30 - 16:00 Summary of Learnings from Drug Discovery Workshop Series

# Registration and Pre-Workshop Questionnaire

Name:

Job Title:

Organization:

**What is your level of experience with the following?**

	Low	Medium	High
<i>How much of your work is laboratory based:</i>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<i>Cell-based assays:</i>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<i>High Content Screening &amp; Image Analysis:</i>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<i>Screening data analysis:</i>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<i>Automated liquid handling:</i>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<i>Biochemical assays:</i>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<i>High Throughput Screening:</i>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<i>Chemical Biology:</i>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Please provide details of any topics you would like to cover:**

**Please provide details of which assay formats you have used:**

**Registration deadline: 20 March 2021**

**Send completed Registration and Pre-Workshop Questionnaire at end of brochure to:**

**Sheraz Gul:** Sheraz.Gul@itmp.fraunhofer.de