



Drug discovery against parasitic vector borne diseases *in-vitro* assay development and screening in drug discovery

Monday 8 May – Wednesday 10 May 2023

Fraunhofer ITMP, Hamburg, Germany

Training School of the COST Action CA21111

One Health drugs against parasitic vector borne diseases in Europe and beyond

OneHealthdrugs

Description

The initial aim of drug discovery is to develop compounds that exhibit appropriate safety and efficacy profiles which can be progressed to clinical evaluation. The focus of this Training School will be to explore the principles underlying target identification, biochemical and cell-based assay development, small molecule screening and *in-vitro* ADME-Tox profiling to produce compounds ready for clinical studies, whilst maintaining low environmental impact.

Programme

Day 1 (Monday 8 May 2023)	
9:00-9:30	Introductions
9:30-10:30	Lecture: The drug discovery and development process (Sheraz Gul)
10:30-11:00	Break
11:00-12:00	Lecture: A new challenge in drug discovery: the discovery and development of low environmental impact drugs (OneHealthdrugs) (Paola Costi)
12:00-13:00	Lunch
13:00-18:00	Practical Work, Demonstrations & Group Activity
Day 2 (Tuesday 9 May 2023)	
9:00-10:00	Lecture: Assay development and screening technologies (Sheraz Gul)
10:00-11:00	Lecture: External speaker
11:00-11:30	Break
11:30-12:30	Lecture: Biochemical and cell based assays (Sheraz Gul)
12:30-13:30	Lunch
13:30-18:00	Practical Work, Demonstrations & Group Activity
Day 3 (Wednesday 10 May 2023)	
9:00-10:00	Lecture: Properties of a Lead and Candidate molecule (Sheraz Gul)
10:00-11:00	Project presentations: Selected Training School attendees from COST Action
11:00-11:30	Break
11:30-12:30	Lecture: Role of ADMET in drug discovery (Sheraz Gul)
12:30-13:30	Lunch
13:30-14:30	Lecture: High Content Screening in drug discovery (Oliver Keminer)
14:30-15:30	Review of drug discovery literature
15:30-16:00	Break
16:00-17:00	Team presentations (Group Activity)
17:00	Departure