

“Innovate, discover, repurpose: crafting tomorrow’s therapies workshop”

This workshop is designed for graduate students and postdoctoral trainees that would like to learn about the process of drug discovery and development. This is an active learning workshop where participants will be asked to develop a plan to turn their biological question into a drug discovery project, including drug target identification and validation, assay development, targeted and/or phenotypic screenings, assessment of key pharmacological parameters, and further assessment of the mechanism of action. It will be one weeklong with daily meetings to give time for participants to investigate and plan their projects.

Topics to be covered:

- *Drug discovery: molecular target known vs unknown*
- *Assay development*
- *High-throughput drug screening and hit selection*
- *Hit-to-Lead and lead optimization*
- *Pre-clinical and clinical trials*
- *Pharmacokinetics (PK)*
- *Pharmacodynamics (PD)*

Schedule: classes will be from 8:30 to 10 am (ICB II building)

Date	Topic
Monday, June 2	Topic presentation, group formation, and biological target selection
Tuesday, June 3	Group project – in class preparation
Wednesday, June 4	Group project – in class preparation
Thursday, June 5	No meeting – groups prepare for presentation
Friday, June 6	Group presentations and concluding remarks