

Drug Discovery of Small Molecules

55-MINUTE ONLINE COURSE | LEVEL 1

OVERVIEW

Drug Discovery of Small Molecules explains the steps involved in discovering new therapeutics. This process includes early screening for targets, target validation, lead optimization, and determining when a target should be transitioned from discovery to development. Learn how new drugs are discovered and optimized prior to being tested in preclinical and clinical trials.

Five Takeaways:

1. In-depth knowledge of the drug discovery process.
2. Survey of typical discovery platforms.
3. Understanding of how to identify and validate a drug target.
4. Performance of lead optimization activities.
5. Criteria for advancement of development candidates.

AGENDA

- **Drug Discovery Overview** explains the steps involved in drug discovery and how drug discovery fits into the entire process of bringing a new therapeutic to market.
- **Early Screening** describes common drug discovery platforms, explains target identification processes and screening considerations, and discusses the need for high throughput screening of molecules in drug discovery.
- **Target Validation** defines target validation processes and target selection and discusses some common questions that need to be answered about target-drug interactions.
- **Lead Optimization Criteria** explains lead optimization activities, discusses drug design methods defines ADMET, and gives an example of a screening pathway.
- **Discovery To Development Transition Criteria** lists the typical criteria for advancement of potential drug development candidates.