

## **Target identification & validation**

Discovering and confirming disease-relevant biological targets through genomics, proteomics, and experimental models.

## **Hit discovery**

Identification of molecules with desired activity against the target in High Throughput Screens.

## **Hit-to-lead**

Synthesis and testing of analogs of hits to establish structure-activity relationships

## **Lead optimization**

Iterative refinement of lead compounds to optimize complete property profile.

## **Preclinical**

Test of most promising lead compounds in multiple species. Results important to decide whether to move into clinical trials.

## **Clinical trials**

Drug candidates are tested in humans and assessed for safety and efficacy to warrant regulatory approval.