

## Identify Target

Sequence genomes of relevant organisms (disease models, clinical isolates, etc.) and search conserved genes not present in host.

## Validate Target

Compile target list, determine essentiality (e.g. disruptome assay) and predict druggability.

## Identify Lead Molecule

Clone, overexpress and incorporate target into a high-throughput screening assay.

## Lead Optimization & Preclinical Development

Improve activity, spectrum, pharmacokinetics, toxicology, pharmacodynamics, etc.