

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.