

Needs & Wants List (Drug discovery)

Object	Technologies that can be used for drug discovery
Technologies	<ul style="list-style-type: none">• Virtual screening technology for efficiently extracting hit compounds from large-scale virtual libraries• Technology for predicting RNA three-dimensional structures• Technology for performing structural analysis of RNA-protein-small molecule complexes• Technology for identifying RNA-binding sites of small molecules (excluding SHAPE method)
Approach	<p>1) Techniques to discover small-molecule drugs that work by mechanisms other than protein inhibition, activation and degradation</p> <ul style="list-style-type: none">• Molecular weight (MW) of the drug is less than 2000 <p>2) The following techniques (excluding those that propose compounds based solely on in silico analysis; all should ideally be methods leading to the creation of selectively acting compounds).</p> <ul style="list-style-type: none">• Techniques to discover small-molecule drugs targeting RNA• Techniques to discover small-molecule chaperones• Techniques to discover small-molecule drugs targeting protein–protein interactions