

DISCOVERY CHEMISTRY RESEARCH & TECHNOLOGIES

Discovery Chemistry Research & Technologies (DCRT) invents and discovers new molecules that can become medicines. These molecules must have the right characteristics to test innovative therapeutic hypotheses and be differentiated from those of our competitors. To achieve this, DCRT works with all therapeutic areas to choose the right biological targets whose manipulation may lead to positive patient outcomes. DCRT brings together many different scientific disciplines to design, prepare and select the best molecular scaffolds for optimization, with the ultimate goal of delivering a single molecule that has the best combination of attributes to be tested in the clinic.

Our greatest interests lie in the following areas:

Molecule Design & Identification:

- *In silico* & related technologies
- Computational chemistry
- Cheminformatics & bioinformatics
- Analytical methodologies & instrumentation
- Complementary chemical diversity
- DNA-encoded libraries
- Oral strategies for high MW molecules
- Protein: Protein interaction inhibitors





Molecule Synthesis & Optimization:

- Automation hardware & software

Biological Testing:

- Human disease-relevant *in vitro* cell-based assays
- Novel biological targets & assay approaches
- Structural biology and biophysical methods to study Mode of Action
- Chemoproteomics
- Biophysical technologies

HAVE AN IDEA?

COLLABORATE WITH US.

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WANT ACCESS TO OUR CAPABILITIES? YOU MAY **QUALIFY** FOR OUR **OIDD** PROGRAM.

- 1 Go to openinnovation.lilly.com
- 2 Email openinnovation@lilly.com