



# SMALL MOLECULE EXPONENTIAL DISCOVERY

X-Chem is the industry leader creating a paradigm shift in drug discovery through its DNA-Encoded Library (DEL) platform. Our DEL platform enables the simultaneous screening of billions of diverse compounds against your target of interest. Partner with us and take advantage of our decades of expertise in DEL technology to untap endless possibilities in your drug discovery programs.

## THE PROOF IS IN THE NUMBERS:

**85+ Programs Licensed**

**>80% Success in Identifying Functional Hits**

**Proven in 30 Challenging Target Classes**

**We Work With 10 of the Top 20 Global  
Pharma Companies**

**Several Flexible Relationship Options**

**80% of Our Workforce Holds Advanced Degrees**

**Facilities in Two of North America's  
Largest Biotech Hubs**

## Why X-Chem?

X-Chem pioneered DEL technology and has provided DEL-based discovery solutions since 2009. We offer pharma and biotech partners the best chance for success and produce the highest-quality, actionable results in small molecule drug discovery. Accelerate your drug discovery with X-Chem.

Small Molecules Hold Exponential Possibilities. Find Your Next Candidate With X-Chem.

## Our Solutions:



### DEL-Driven Hit Identification

- › Work with the pioneers of the DEL platform technology with decades of experience
- › Access the most innovative and highest quality small molecule DEL libraries in the industry
- › Screen hundreds of billions of high-quality small molecules against your target
- › Identify potent, selective hits with structure-activity relationships (SARs) directly from the screen
- › Exclusive licensing formats for confirmed target hits
- › Flexible and customizable small molecule discovery programs



### Hit-to-Lead

- › Accelerated hit-to-lead pathway through SAR information coming directly from the screen
- › In silico or in vitro drug metabolism and pharmacokinetics (DMPK) profiling data is generated for hit optimization
- › Delivery of well-designed screening cascades with improved cycle times, aimed at improving physiochemical, metabolic and toxicological profiles



### Lead Optimization

- › An informed strategy that addresses critical risk factors in the lead optimization phase
- › Critical assessment factors: target pharmacology, in vitro DMPK, safety, target engagement and translational strategy
- › Eliminate risks early on, save critical time and get a significant cost advantage



### DEL Technology and Enabling Services

- › Custom DNA-encoded libraries that can deliver game-changing results
- › Improved new chemistries, building blocks and reaction schemes
- › Speciality libraries for peptides, macrocycles and covalent binders
- › A history of identifying lead-like hits for many previously intractable targets
- › Proprietary bioinformatics analysis tools to identify novel small molecules for the toughest targets

Get In Touch

### ABOUT X-CHEM

X-Chem, Inc. is the leader in small molecule discovery science, providing pharmaceutical and biotech companies a complete, seamless solution for screening, hit validation and lead optimization. As pioneers of DNA-encoded chemical library (DEL) technology, the company leverages its market-leading DEL platform to discover novel small molecule leads against challenging, high-value therapeutic targets. In-house lead optimization services enable clients to progress their compounds directly for even higher quality outputs. Our expertise in medicinal chemistry, custom synthesis and scale-up process chemistry enables us to support all aspects of drug discovery, supporting lead optimization through candidate identification.