

A New Method of Hit Discovery

In contrast to high throughput screening, DEL requires a very small amount of target protein and minimum assay development. More importantly, it disrupts the concept of "cost-per-well" and allows testing billions of compounds in one tube.



Allowing access to more chemical space with lower cost

Novel Business Model

Three Types of Services Designed For Different Needs

4.2
Billion

DELopen

Free access to DEL data sharing
Target confidentiality For academic users
Open source

10.8
Billion

DELlight

Unprecedented data release
Target confidentiality For all drug developers
Easy access with reduced risk

41+
Billion

DELpro

One-stop solution customizable
Target exclusivity For all drug developers
Access to unique scaffolds

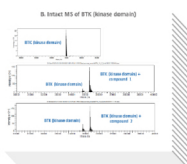
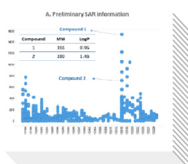
Extended Research Field

More Than Conventional DEL Screening

Irreversible Covalent Screening

Specially designed library collection with **electrophilic warheads**

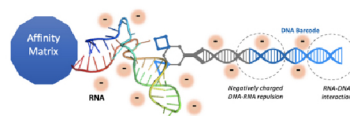
Optimized selection method to enhance the **signal-to-noise** ratio



Pre-incubation Time (h)	Cmpd 1 IC ₅₀ (nM)	Cmpd 2 IC ₅₀ (nM)	ibrutinib IC ₅₀ (nM)
0	14	2,600	49
3	0.1	50	11

RNA Target

Optimized selection procedure to counter **charge, RNA/DNA interaction and structural integrity** of RNA during DEL screen

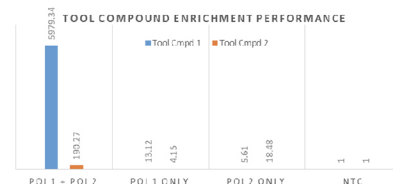


Compound	Library	SPR (K _D)
RNA Hit 5 & 6	3 cycle library	Strong binding
RNA Hit 7	2 cycle library	1.7 μ M
RNA Hit 8	2 cycle library	1.3 μ M
Reference	Positive Control	144 nM

PROTAC and Molecular Glue

Optimized selection method to specifically enrich **dual-binding** molecules

On-DNA Tool compound 1 binds to POI 1 & 2
On-DNA Tool compound 2 only binds to POI 2

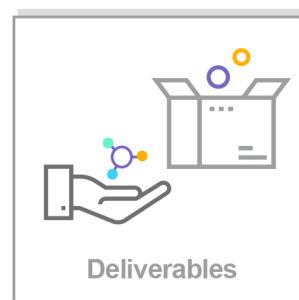
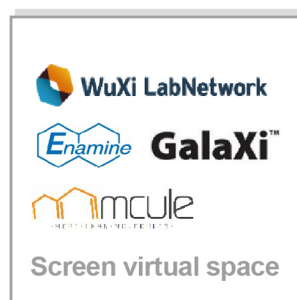
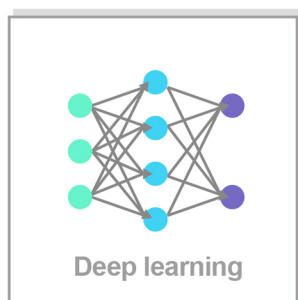
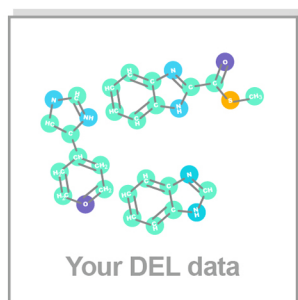


DEL-enhanced Virtual Screening

Explore Beyond
The Disclosed
DEL Chemotypes

Cost-effective
Compound Acquisition

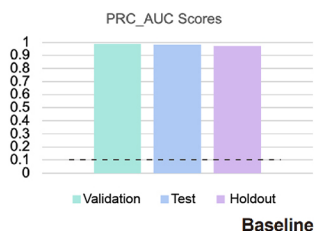
Lead-like Chemical Space



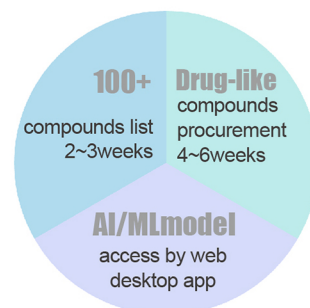
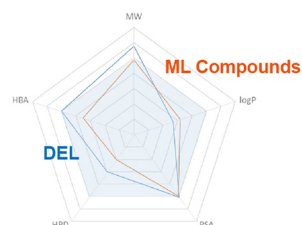
Data curation and
assessment

+ 32,167
- 242,817

Model training and evaluation



Drug-like test compounds from
commercially available catalogs



	DEL	Structure Based Virtual Screen	DEL + ML
Compound library	DNA-encoded compound	Virtual + Commercial library	Virtual + Commercial library
Selection method	Experimental	Computational	Computational
Protein structure	Not needed	Required	Not needed
Compound acquisition	Resynthesis	Off-the-shelf or Resynthesis	Off-the-shelf or Resynthesis
Screen time	4 weeks	3-4 weeks	2-3 weeks
Hit rate	5-50%*	1-25%**	5-32%

* In house statistics ** J. Med. Chem. 2013, 56, 17, 6560-6572

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