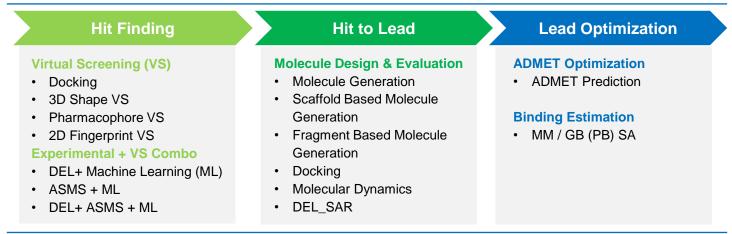


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In Silico Drug Discovery Platform

In Silico Tools for Drug Discovery



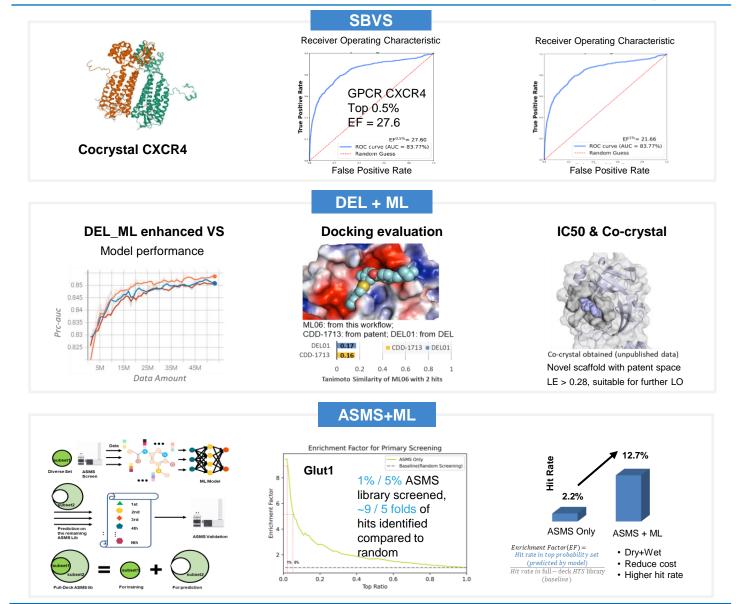
In Silico Services for Hit Finding

	Structure Based	Ligand Based					
VS	Co-crystal or AF2 Predicted Structure	3D shape based	Pharmacophore VS	based 2D Fingerprint based			
Diversity	5 Million	20 Million	5 Million	1 Billion			
Libraries Source for VS		WuXi AppTec GalaXi (20 Million) Commercial Vendors (10 Billion)					
Service Model	FFS/Customization Services tailored to specific needs						
Timeline	4 to 5 weeks		3 to 4 weeks				
Note	Co-crystal / predicted structure needed	Query molecule needed					
	DEL / ASMS Enhanced VS						
			•	DEL + ASMS			
Experimental + VS Combo	DEL	A	SMS	DEL			
•	DEL + ML		SMS IS + ML	DEL + ASMS DEL + ASMS + ML			
•	DEL + ML 10 Billion			DEL + ASMS + ML			
+ VS Combo			IS + ML	DEL + ASMS + ML			
+ VS Combo Diversity Libraries	10 Billion GalaXi, Enamine, Mcule	•< ASM	IS + ML 270	DEL + ASMS + ML			



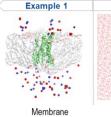
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Representative Workflow & Case Studies for Hit Finding

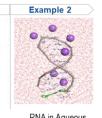


Hit to Lead & Lead Optimization

Molecular Dynamics Platform



Proteins



RNA in Aqueous Solution

ADMET Prediction Model

Category	Prediction Metrics	Model	Category	Prediction Metrics	Model
Absorption	Caco-2 cell permeability MDCK cell permeability PAMPA permeability Kinetic solubility Thermodynamic solubility	 XGBoost Random Forest 	Metabolism	• CYP450	 Deep Learning
			Excretion	Clearance_Hepatocyte Clearance_Microsome T1/2	Deep Learning
Distribution	BBB Score	 Polynomial Regression 	Toxicity	hERG BlockerTox21 (ER, AR pathway)	Deep Learning



Contact Us

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