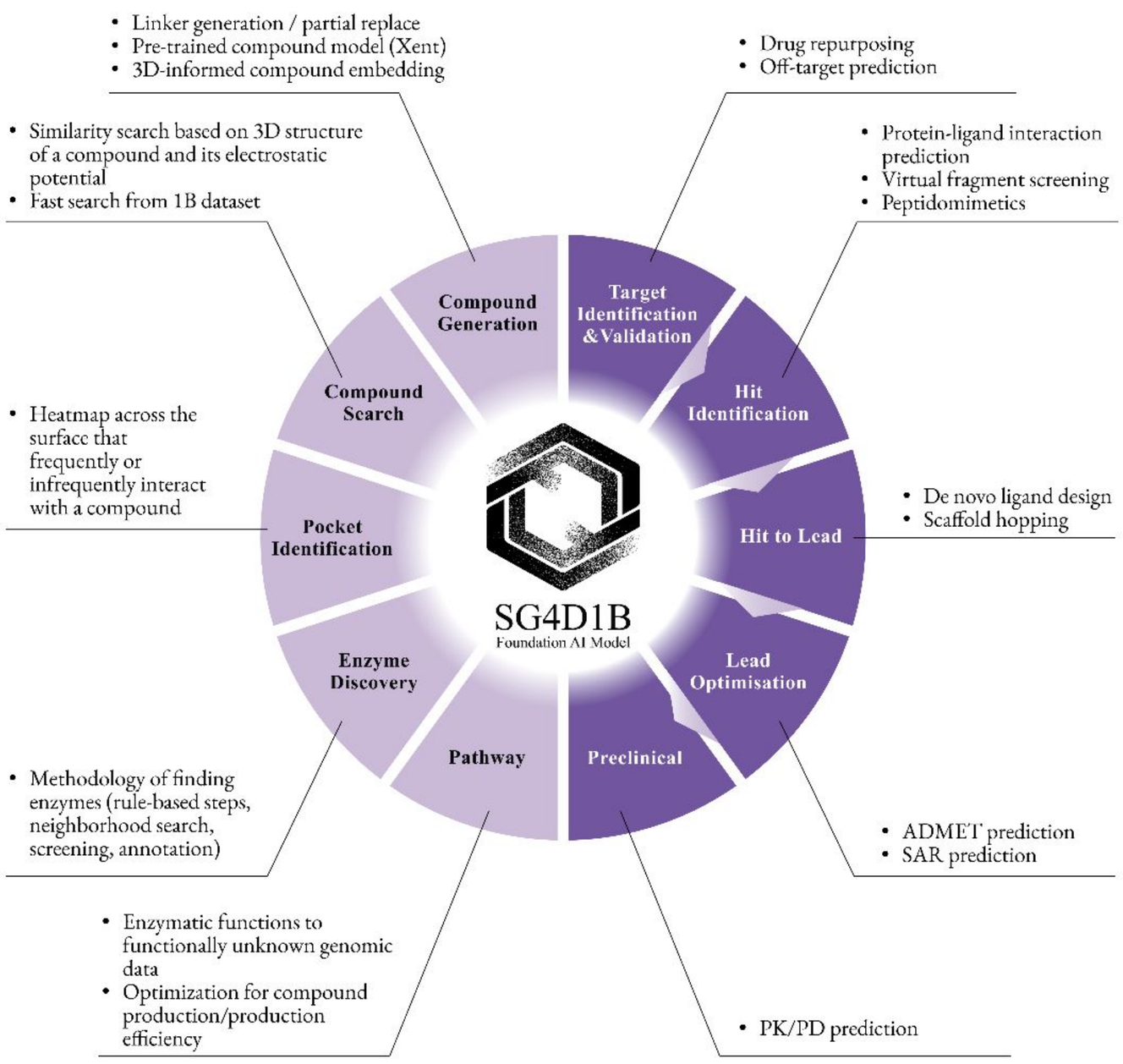
Molecular information-specific Foundation AI model to enhance your AI drug discovery

SYNTHETICGESTALT

Empower Your Drug-Discovery AI to Tackle Any Compound, Any Workflow



Advantages

01. Can **transfer the capabilities** learned from massive amounts of data to **Individual AI models (Confirmed 10-30% rise in performance)**

02. Can reduce the time required for training individual AI models by **10-100 fold**

03. The Foundation AI is our own, but **Individual AIs trained based on it can be sold/licensed separately**

Performance

	Our Model Using SG4D1B	Competitor 1*2	Competitor 2*3
Accuracy*1	0.8942	0.7288	0.4750

*1 Using PRAUC for a group of compounds randomly selected from the Enamine Real Database. Calculate the average value for 9 initial toxicity/pharmacokinetic parameters
*2 Using HealixADMET. https://academic.oup.com/bioinformatics/article/38/13/3444/6590643
*3 Using admetSAR 2.0. https://academic.oup.com/bioinformatics/article/35/6/1067/5085368

Achievements

- Presented at NVIDIA's Annual GTC Conference
- Discovered novel strong Inhibitors to certain clinical targets
- Discovered novel double-inhibitor for a clinical target
- Discovered novel Inhibitors with satisfactory ADME-Tox
- Discovered novel structures for a pesticide target
- Discovered 4 novel PET-degrading Enzymes
- Discovered a novel plastic-degrading enzyme with just one training data point
- Discovered novel Methane-producing enzymes

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