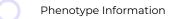


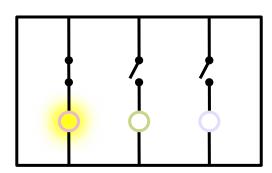
Multidimensional graph database leveraging molecular, morphological, and genetic data to understand and discover new drug mechanisms.

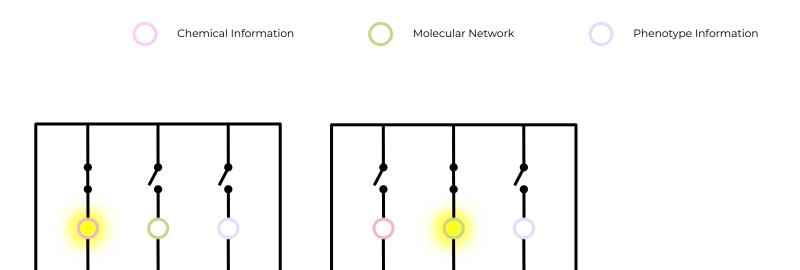


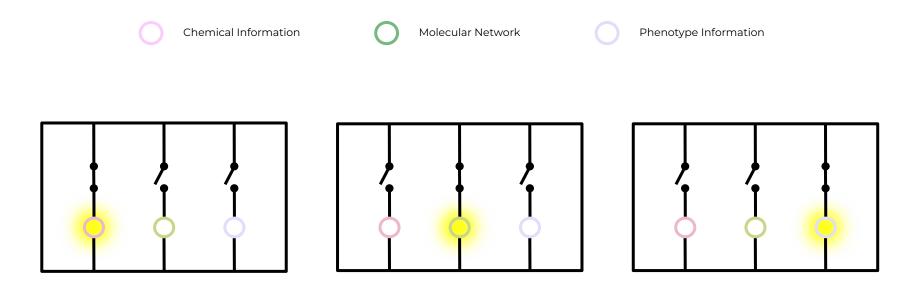




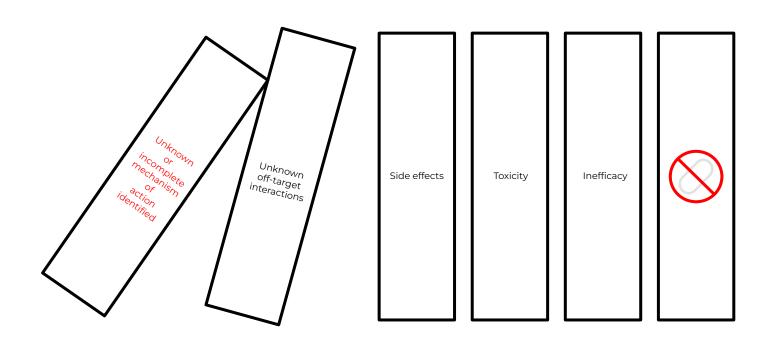




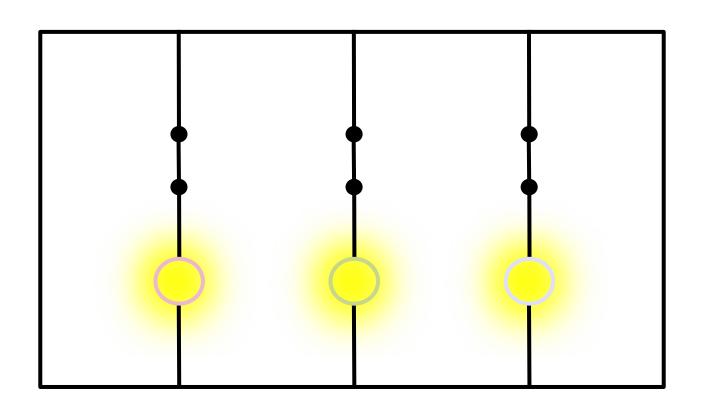




THE RESULT

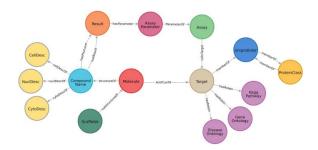


90% DRUG FAILURE RATE.

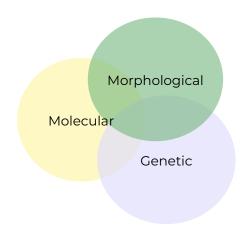




A graph database for a multi-dimensional understanding of MoAs

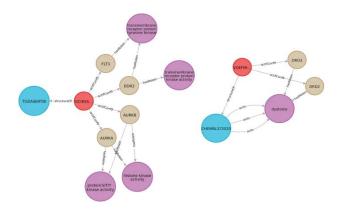






Mine data from public databases + client data to add to BenchSci's database

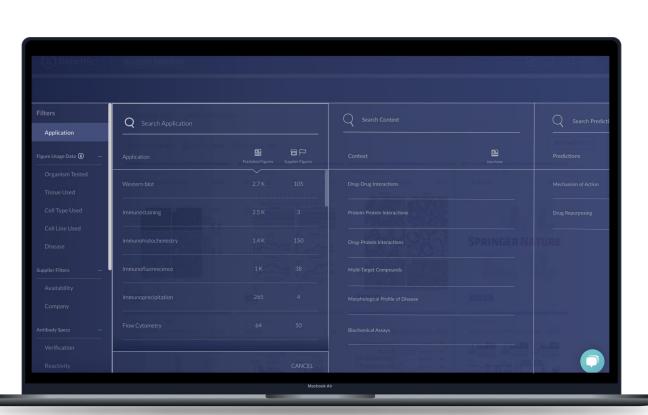
2 Standardize molecular, genetic, and morphological data



3

Multi-dimensional graph network generation

4 Mechanism of action, multi-target compound, chemical-morphological profiling and prediction



DRUG REPURPOSING: ENGINEERING SERENDIPITY

5X

37X

Up to 500% reduction in time

15 yrs **→** 3 yrs

Up to 3700% reduction in **costs**

\$2-3 billion → \$40-80 million

SYSTEMS MEDICINE: HOLISTIC UNDERSTANDING

