# **Mechanism of Action Reconstruction**

Identify and analyze the key molecular mechanisms underlying your indication or drug of interest to enhance understanding and drive targeted therapeutic strategies

## **Description**



Evaluate existing omics data - yours or from literature - to reconstruct biological mechanisms for disease understanding, target mechanism validation, toxic effect prediction and more

## **Analysts & expert-curated datasets**



30+ multi-omics analysis experts



**Computational Biology methods for Drug Discovery** (CBDD) containing 79 systems biology algorithms



4.6M+ molecular interactions



1,500+ pathway maps



746K+ drugs and biologics

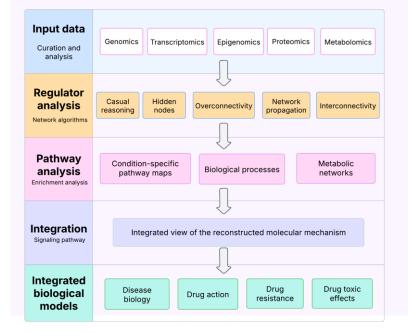


48K+ biomarkers (2.7M+ biomarker uses)

# **Clarivate**

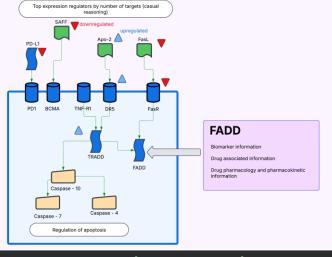
### Methodology

- Collection and analysis of high-quality omics data by our expert bioinformatics consultants
- Utilize state-of-the-art Clarivate algorithms to identify key regulators, network nodes, and topology
- Integrate all results into a mechanism of action map, connecting omics signatures to disease biology, drug action, resistance, and toxicity profile



#### Output

- Comprehensive mechanism of action for the medical condition or drug of your interest.
- Expand your knowledge with potential new key regulators, cell or tissue-specific factors, and essential aspects to design your preclinical strategy.
- Integrated molecular insights enriched with toxicology, drug resistance, targets, and other proprietary biomedical data.



#### **Typical Project Timeline**

From 8 weeks, subject to complexity

Select case studies available upon request