

Since 2019, we've harnessed the power of artificial intelligence to revolutionize drug development, creating digital twins of cells to unlock insights into complex biological systems.

Cutting-edge Systems biology ML & AI DeepLife.

22+

Employees worldwide

90%

PhD experts, diverse in AI, bioinformatics, and biomedical research >20

Partnerships with pharma, biotech and academia



High quality multi-omic data



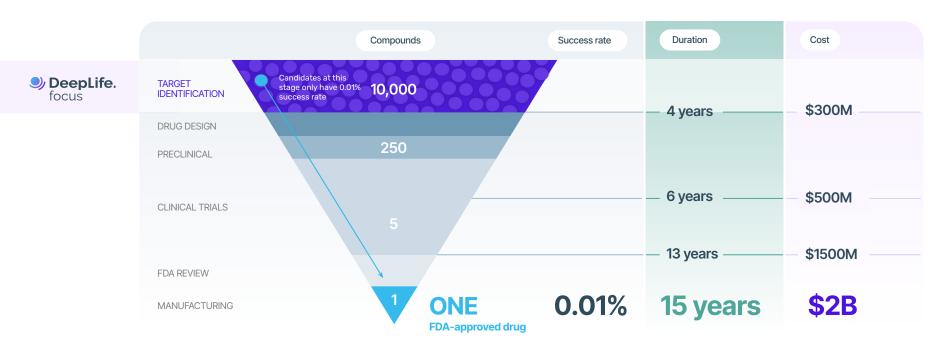
<u>deeplife.co</u>



Target ID &
Drug
development &
repurposing



History of low success rate in drug discovery





Decoding the complexity of cellular biology

We uncover therapies for diseases with significant unmet needs and improve drug development with our Al-powered platform



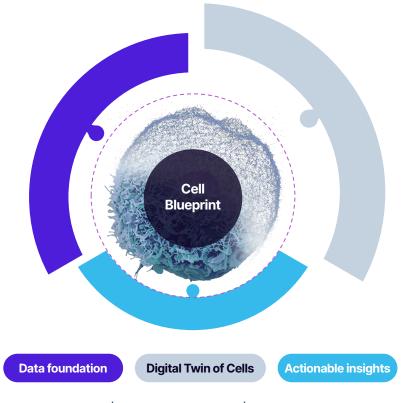
Cell-type-specific models



Modular software



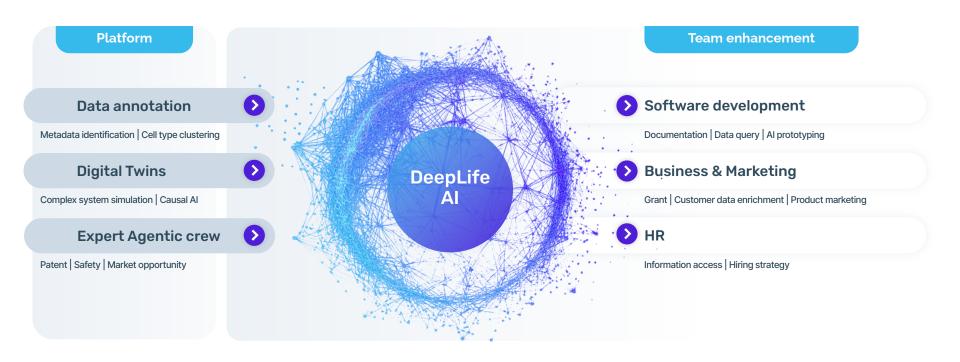
Tailored services



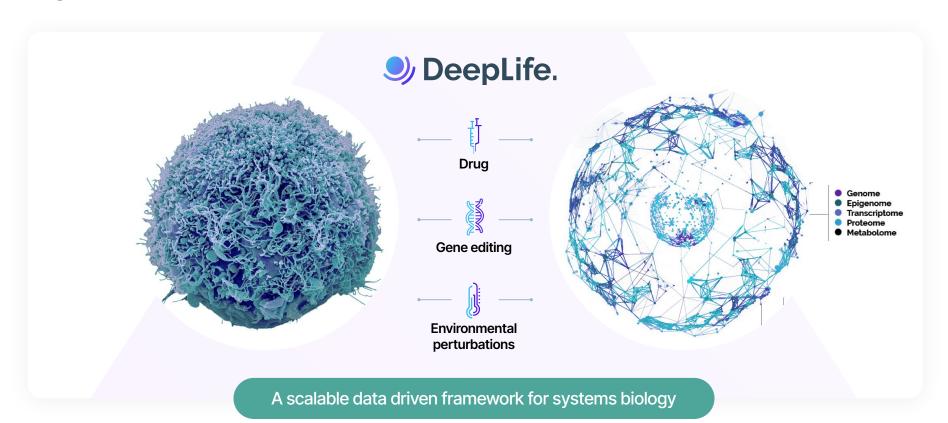
Data curation | Target identification | Indication selection
Derisking assets | Drug Repurposing | Bioproduction



Place of AI within DeepLife



Digital twins of cells







DeepLife's multi-omics Interactomes

Leveraging AI to build high quality network, enforcing directionality and directness

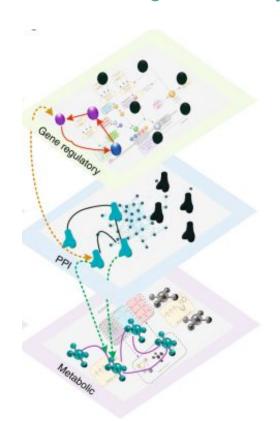
Interactomes are networks where:

Nodes represent : biological molecules (~30k)

- Proteins
- Genes
- Metabolites
- miRNA/lincRNA

Edges: Interactions between molecules (~300k)

- Activation
- Expression regulation
- Phosphorylation
- Binding



Use AI to extract **direct** & **directed** edges between nodes



DeepLife Interactome with better quality than state of the art databases





DeepLife's multi-omics Interactomes

A high quality network enforcing directionality and directness

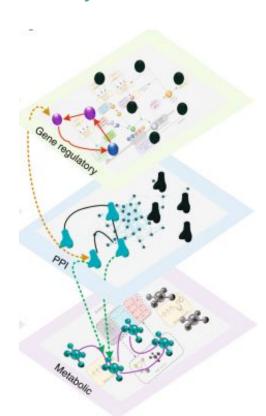
Interactomes are networks where:

Nodes represent : biological molecules (~30k)

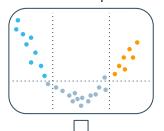
- Proteins
- Genes
- Metabolites
- miRNA/lincRNA

Edges: Interactions between molecules (~300k)

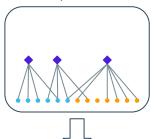
- Activation
- Expression regulation
- Phosphorylation
- Binding



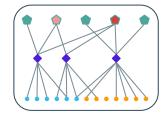
Differential Expression



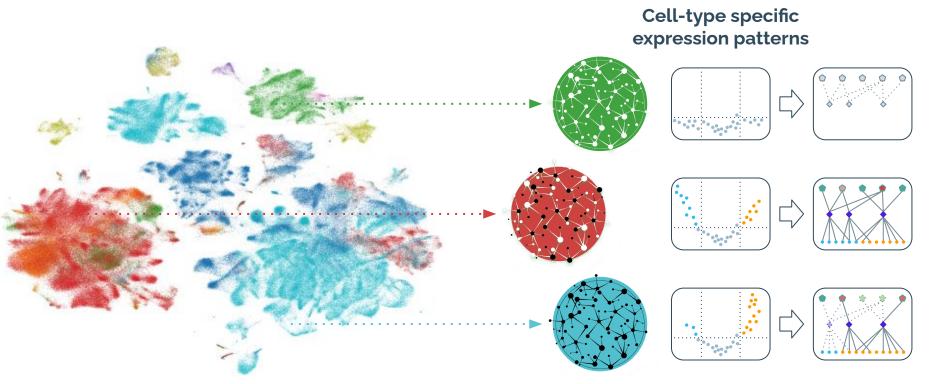
Transcription factors



Upstream regulators



Generating cell type specific multi-omic interaction networks



DeepLife ATLAS

Cell-type specific interactomes

Cell-type specific drug targets



Access DeepLife Cell Blueprint for visualization at the cellular level

Simple & holistic view of cell mechanisms



30k+

Multi-omics cell components

300k+

literature curated interactions

- Human cell multi-omic network
- Cell-type specific network
- Metabolomic network
- Network exploration
- Chatbot
- Drug Catalog
- Customized training

"DeepLife <u>Cell BluePrint</u> introduces a paradigm shift in network representation, simplifying analysis & streamlining interpretation"







Digital









Constance Beyer (Head of Business Development)

constance.beyer@deeplife.co

or

partnerships@deeplife.co



Cell BluePrint Trial

https://cellblueprint.deeplife.co

They talk about us:

