

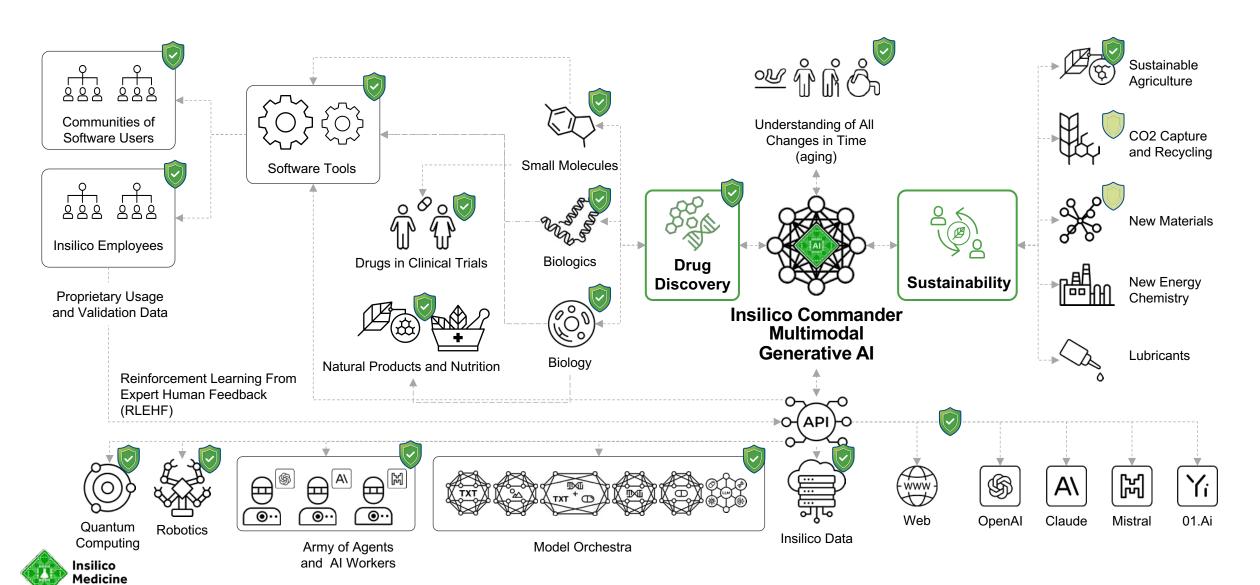


A GLOBAL DEEP LEARNING-FIRST CLINICAL-STAGE GENERATIVE AI AND ROBOTICS COMPANY ESTABLISHED IN 2014

TO EXTEND HEALTHY PRODUCTIVE LONGEVITY FOR EVERYONE



Insilico Generalist Generative Al Platform For Multimodal Multi-Industry Multi-Domain Learning



2024 Most Innovative Biotechnology Company Globally





https://www.fastcompany.com/91034883/biotech-most-innovative-companies-2024

FAST@MPANY

03-19-2024 | MOST INNOVATIVE COMPANIES 2024

The most innovative companies in biotech in 2024

Why Institic Medicine, ElevateBio, Inata, and Esscientia are among Fast Company's Most Innovative Companies in biotech in 2024.



1. INSILICO MEDICINE

For zooming in on drug-disease targets

2. ELEVATEBIO

For catching genetic disorders at the root

3. PERSONALIS

For detecting cancers with precision

4. EXSCIENTIA

For using AI to personalize cancer treatments

5. ROCKET PHARMACEUTICALS

For targeting rare diseases with gene therapy

6. GUARDANT HEALTH

For doubling down on cancer detection

7. INATO

For bringing clinical trials to local hospitals

8. ELUCIDATA

For cleaning up messy biomedical data

9. MARAVAI LIFESCIENCES

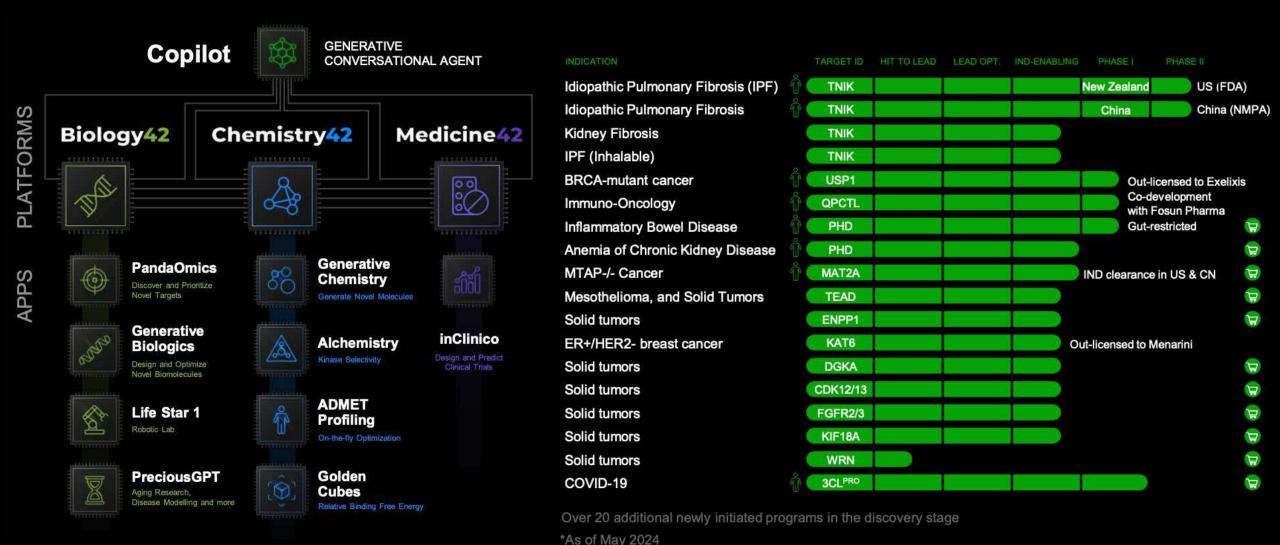
For improving the safety of immunotherapy

10. EMERALD CLOUD LAB

For providing 24/7 lab services in the cloud

Pharma.Al Platform

Drug Discovery Pipeline





Some Internal Benchmarks at Insilico Medicine



Started Internal Drug Discovery in 2019

- 18 Preclinical Candidates (PCC) Nominated
- 8 Human Clinical Trials
- 2 in Phase II
- Average Time to PCC is 13 Months
- Shortest Time to PCC 9 Months
- Longest Time to PCC 18 Months
- In 2022 Nominated 9 PCCs
- Annual Capacity ~ 12 PCCs

Biology42: Disease Modeling, Target Discovery and Indication Expansion Platform

60+ Target Discovery Philosophies

25+ Al Models

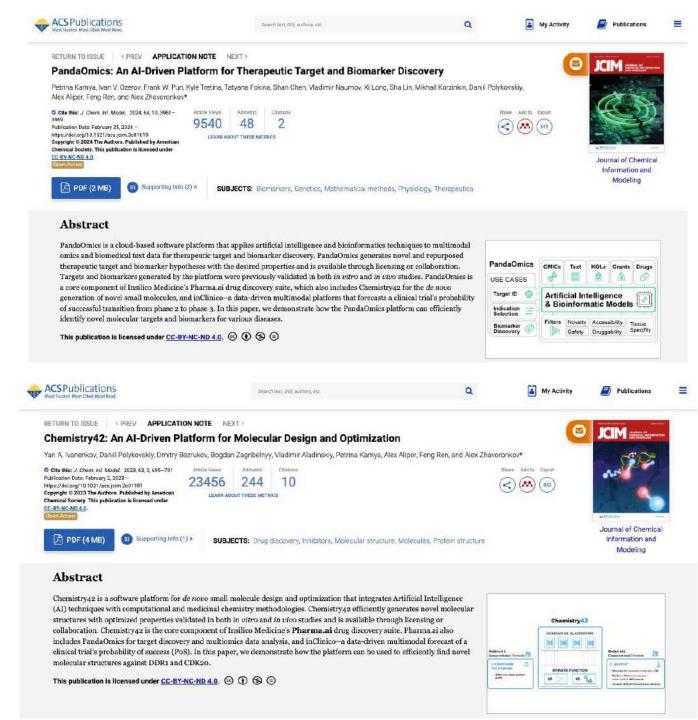
User Base: Biotechnology Companies, Pharma, Academics (thousands)

Chemistry 42: Generative Chemistry Platform

40+ Generative Models 500+ Predictive Models

Alchemistry – quantum chemistry platform

User Base: Pharma Companies (10 out of top 20)





Why End-to-End Drug Discovery and Development AI to Increase PTRS?

Why End-to-End Drug Discovery and Development AI?

Click to edit Master text styles



^{*} Modified from Paul et al, How to improve R&D productivity: the pharmaceutical industry's grand challenge. Nature Reviews Drug Discovery , 2010

^{**} Based on interviews with the pharmaceutical industry executives

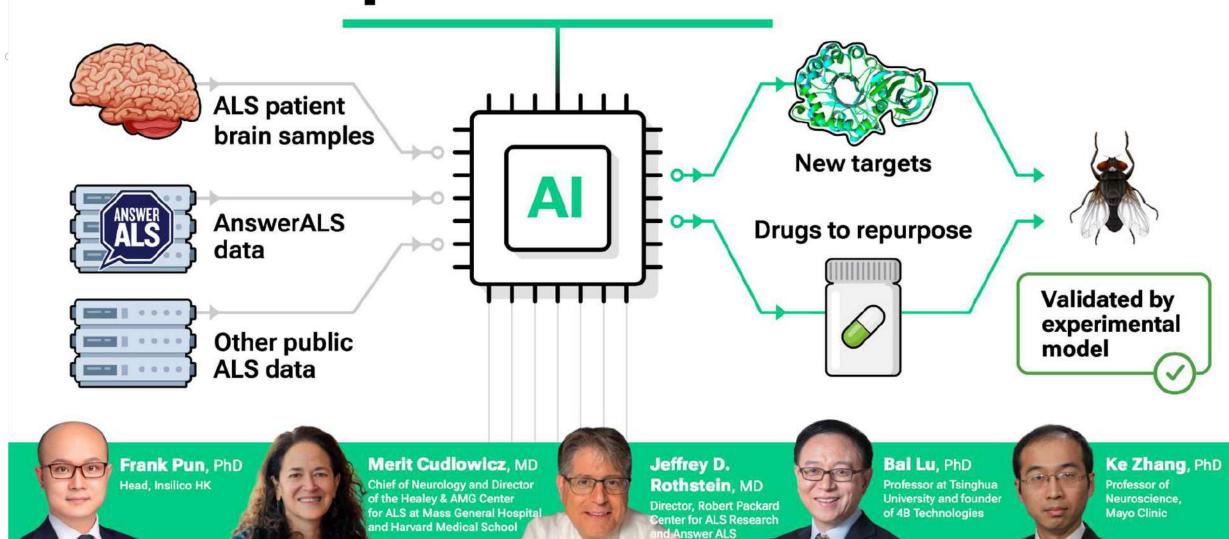


What Can Generative Al Do For You Today?



It Can Discover and Prioritize Protein Targets

'panda' Omics



ALS.AI

In collaboration with Answer ALS, Johns Hopkins University and Mayo Clinic

OBJECTIVE

Apply Insilico AI-powered target discovery platform to search for novel targets and repurposed drugs for ALS

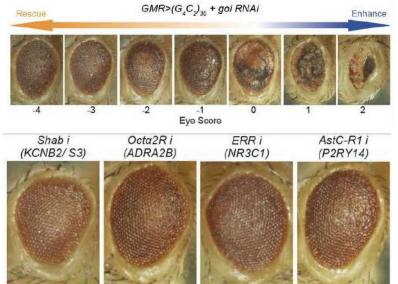
VALUE

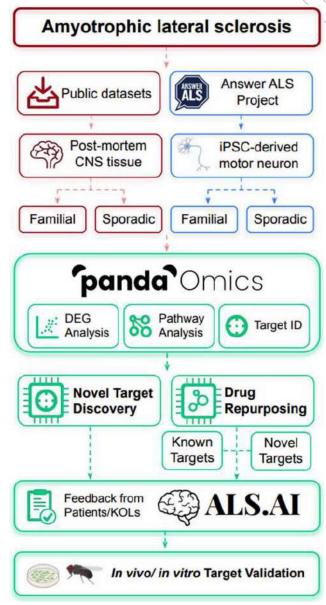
Our study exemplifies the full potential of PandaOmics for target discovery with *in vivo* validation

RESULT

Twenty-eight potential therapeutic targets that participate in a wide range of well-characterized ALS mechanisms were identified. Among the 26 proposed targets screened in the c9ALS *Drosophila* model, we verified 8 unreported genes whose perturbations strongly rescued eye neurodegeneration.

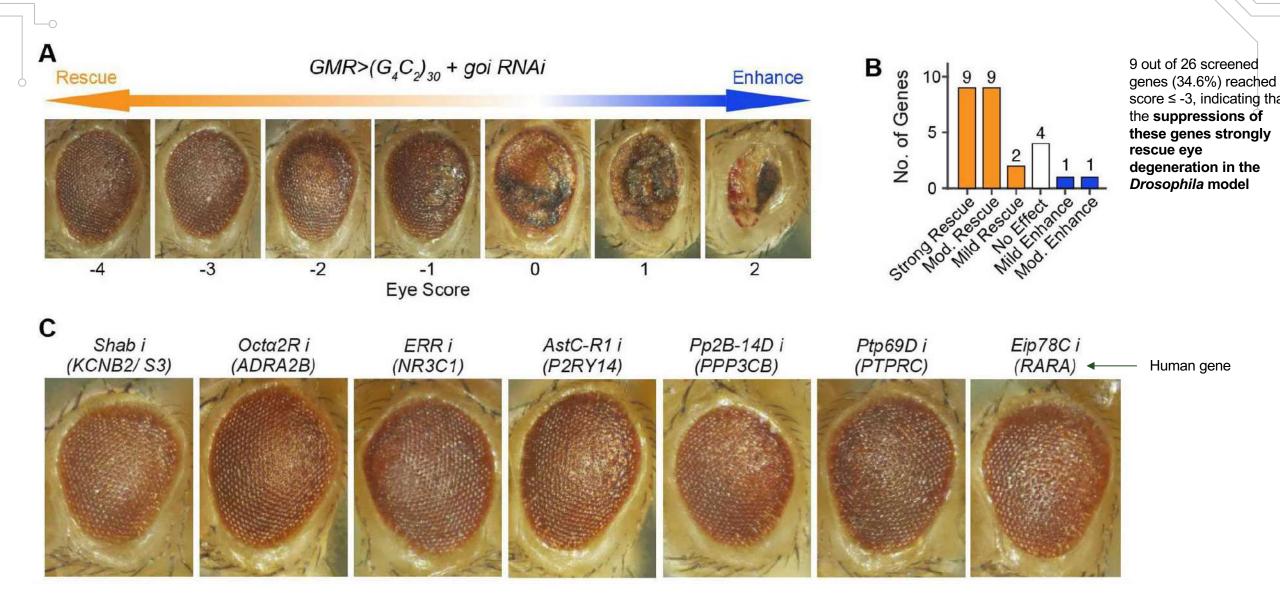






Pun et al., Front Aging Neurosci, 2022.

Loss of 7 unreported fly orthologs, corresponding to 8 genes, strongly rescued (G₄C₂)₃₀- mediated neurodegeneration in a c9ALS *Drosophila* model



4B Technologies just enrolled ~64 patients in a clinical trial

From discovery into patients in <1 year







Bai Lu, PhD Professor at Tsinghua University and founder of 4B Technologies



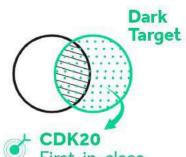
Ke Zhang, PhD Professor of Neuroscience, Mayo Clinic



It Can Generate Compounds For Targets Without Crystal Structure



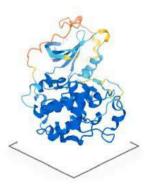




Identification of CDK20

Al Predicts Cystal

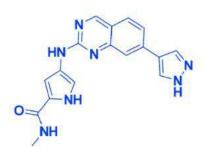
AlphaFold



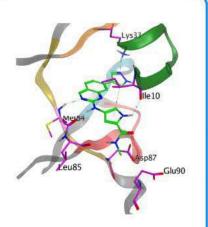
Predicted structure for dark target CDK20

Al Generates Molecules

Chemistry 42



Novel Small Molecule Inhibitor ISM042-2-048



Predicted binding pose

Validation



In Vitro Validation Anti-proliferation Activity



AlphaFold accelerates artificial intelligence powered drug discovery: efficient discovery of a novel CDK20 small molecule inhibitor†

2 rounds of compound generation in Chemistry 42



First round generated bioactive compounds SBDD approach KD(nM) = 7300



Second round enhanced compound activity Privileged Structure approach KD(nM) = 180

Feng Ren, Xiao Ding, Min Zheng, Mikhail Korzinkin, Xin Cai, Wei Zhu, Alexey Mantsyzov, Alex Aliper, Vladimir Aladinskiy, Zhongying Cao, Shanshan Kong, Xi Long, Bonnie Hei Man Liu, Yingtao Liu, Vladimir Naumov, Anastasia Shneyderman, Ivan V. Ozerov, Ju Wang, Frank W. Pun, Daniil Polykovskiy, Chong Sun, Michael Levitt, Alán Aspuru-Guzik and Alex Zhavoronkov



Alex Zhavoronkov, PhD Founder & CEO, Insilico Medicine



Feng Ren, PhD Co-CEO & CSO, Insilico Medicine



Michael Levitt, PhD





Alán Aspuru-Guzik, PhD

Professor and Director. University of Toronto, Former professor, Harvard University

It Can Generate Compounds With The Desired Properties for a Broad Range of Targets

nature machine intelligence

Review article

https://doi.org/10.1038/s42256-024-00843-5

Machine learning-aided generative molecular design

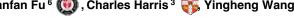
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Yuanqi Du 1,10 , Arian R. Jamasb 2,3,9,10 Jeff Guo 4,5,10 EPFL

Tianfan Fu ⁶ (, Charles Harris ³ , Yingheng Wang ¹







Machine learning has provided a means to accelerate early-stage drug discovery by combining molecule generation and filtering steps in a single architecture that leverages the experience and design preferences of medicinal chemists. However, designing machine learning models that can achieve this on the fly to the satisfaction of medicinal chemists remains a challenge owing to the enormous search space. Researchers have addressed de novo design of molecules by decomposing the problem into a series of tasks determined by design criteria. Here we provide a comprehensive overview of the current state of the art in molecular design using machine learning models as well as important design decisions, such as the choice of molecular representations, generative methods and optimization strategies. Subsequently, we present a collection of practical applications in which the reviewed methodologies have been experimentally validated, encompassing both academic and industrial efforts. Finally, we draw attention to the theoretical, computational and empirical challenges in deploying generative machine learning and highlight future opportunities to better align such approaches to achieve realistic drug discovery end points.

Review article https://doi.org/10.1038/c42256.024.00843.5

Model	Input	Output	Design task	Target	Hit rate	Outcome	Publication year
Distribution learning							
LSTM RNN ¹⁴⁶	SMILES	SMILES	De novo	RXR	4/5 (80%)	nM agonist	2018
LSTM RNN ¹⁴⁷	SMILES	SMILES	De novo	RXR	2/4 (50%)	μM agonist	2018
GraphGMVAE 148	Graph	SMILES	Scaffold hopping	JAK1	7/7 (100%)	nM inhibitor	2021
LSTM RNN ¹⁰⁸	SMILES	SMILES	De novo	LXR	17/25 (68%)	μM agonist	2021
LSTM RNN ¹⁴⁹	SMILES	SMILES	De novo	RORy	3/3 (100%)	μM agonist	2021
LSTM RNN ¹⁵⁰	SMILES	SMILES	De novo	FLT-3	1/1 (100%)	μM inhibitor	2022
GGNN GNN ¹⁵¹	Graph	Graph	Fragment linking	CDK8	9/43 (21%)	nM inhibitor	2022
GRU RNN ¹⁵²	SMILES	SMILES	De novo	Bacteria	0/1 (0%) ^a	μM inhibitor	2022
BiRNN encoder–decoder ¹⁵³	SMILES	SMILES	De novo	DDR1	2/2 (100%)	nM inhibitor	2021
GRU RNN ¹⁵⁴	SMILES	SMILES	Reaction-based de novo	MERTK	15/17 (88%)	μM inhibitor	2022
LSTM RNN ¹⁵⁵	SMILES	SMILES	De novo	РΙЗКγ	3/18 (17%)	nM inhibitor	2023
Transformer ¹⁵⁶	SMILES	SMILES	Fragment linking	TBK1	1/1 (100%)	nM inhibitor	2023
VAE and transformer ¹⁵⁷	SMILES	SMILES	Fragment hopping/linking	CDK2	17/23 (74%)°	nM inhibitor (MC) ^b	2023
LSTM RNN ¹⁰²	SMILES	SMILES	De novo	Nurr1y	2/6 (33%)	nM inhibitor	2023
Graph transformer-LSTM RNN;	Graph	SMILES	De novo	PPARy	2/2 (100%)	μM agonist	2023
Goal oriented							
DNC159	SMILES	SMILES	De novo	Kinases	Od	μM inhibitor	2018
AAE (conditional) ¹⁶⁰	SMILES	SMILES	De novo	JAK3	1/1 (100%)	μM inhibitor	2018
VAE ¹⁹	SMILES	SMILES	De novo	DDR1	4/6 (67%)	nM inhibitor ^b	2019
LSTM RNN ¹⁰⁸	SMILES	SMILES	De novo ligand based	DDR1	4/6 (67%)	nM inhibitor	2021
Stack-GRU RNN181	SMILES	SMILES	De novo	EGFR	4/15 (27%)	nM inhibitor	2022
LSTM RNN (conditional) ¹⁰⁷	SMILES	SMILES	De novo	RIPK1	4/8 (50%)	nM inhibitor ^b	2022
Chemistry42 ²⁰	Mixed	Mixed	De novo structure based	CDK20	6/13 (46%) ^a	nM inhibitor	2023
Chemistry42 ¹⁶²	Mixed	Mixed	De novo structure	CDK8	1/1 (100%)	nM inhibitor ^b	2023







Chemistry42¹⁰⁵

Chemistry42¹⁶⁴

RNN-transformer¹⁸

RNN-Chemistry42¹⁶⁷

Graph transformer

Chemistry42¹⁶⁹

Activity model

Chemistry42¹⁷²

(conditional)173

lavers¹⁷⁰ Flow (conditional)171

Chemistry42^{114,115}

Attention-convolution

Transformer-

(conditional)166

QC-LSTM

Mixed

SMILES

Mixed

SMILES

Graph

Mixed

Mixed

Geometry

Variable

Geometry-SMILES

Mixed

Mixed

SMILES

SMILES

Graph

Mixed

Mixed

SMILES

Geometry

Variable

De novo structure

De novo structure

De novo structure

De novo activity

De novo structure

De novo activity

De novo structure

Scaffold based

Reaction based

De novo structure

Lead optimization

De novo

based (R-group)

based

mode

De novo

SIK2

PHD enzymes

Tuberculosis ClpP

NLRP3

KRAS

MGLL

Polθ

TNIK

Factor Xa

Bacteria

HAT1 and YTHDC1

6/6 (100%)

2/5 (40%)

1/1 (100%)

1/6 (17%)^a

1/12 (8%)3

1/3 (33%)^a

4/6 (67%)

Unknownf

Unknown⁹

0/2 and 0/3 (0%)

6/58 (10%)

7/7 (100%)

nM inhibitor

µM antagonis

nM inhibitorb

nM inhibitorb

uM inhibitor

µM inhibitor

uM inhibitor

µM inhibitor

nM inhibitorb

uM inhibitor

µg inhibitorb

Both uM inhibitor

nM inhibitor (MC)

2023

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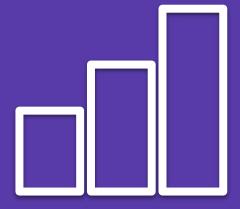


It Can Predict Outcomes of Some Clinical Trials and Help With Go-NoGo Decisions and Clinical Trial Design





Multi-modal artificial intelligence platform for predicting and optimizing clinical trial outcomes



Platform capabilities





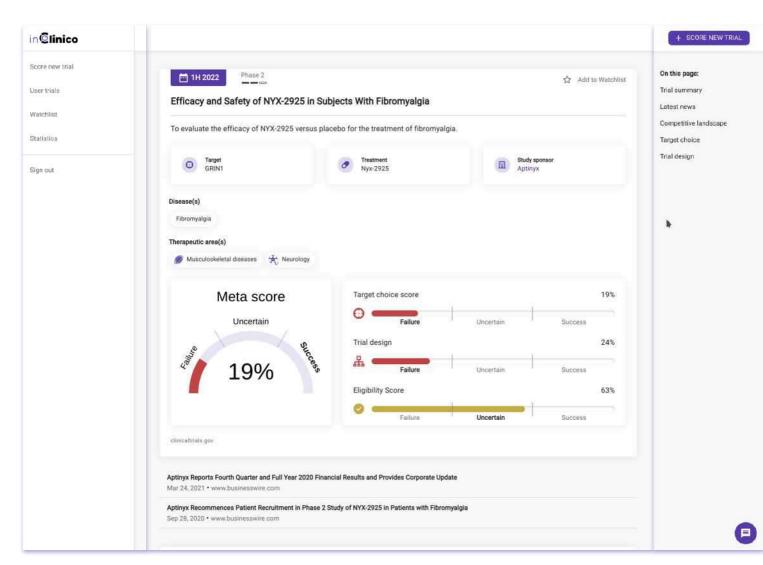
Get data-driven forecasts of clinical trial outcomes



Explore and analyze clinical landscape for the given disease, therapeutic area



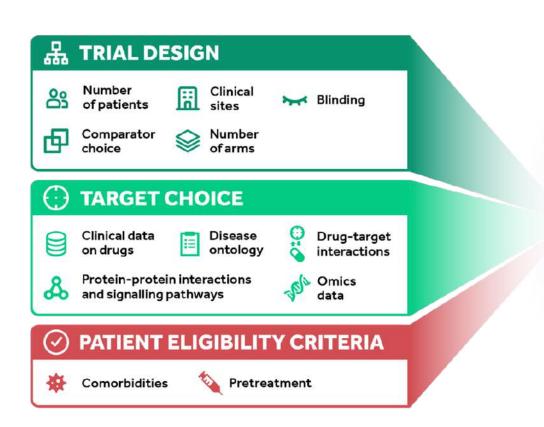
Score your trials, prioritize programs in early stages and optimize trial designs to improve probability of success



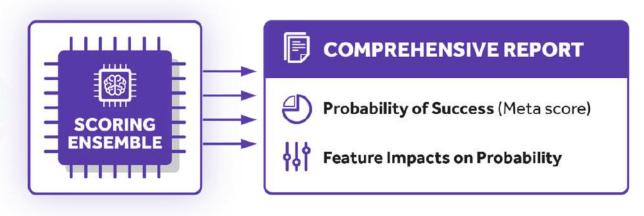
^{*}Validated for Phase 2 clinical trials

Platform – approach





The **InClinico** platform scoring methods rely on the state-of-the-art ML models for multimodal assessment of clinical trial probability of success (PoS)



Meta score ROC AUC - 88%

Data



Comprehensive dataset with extensive mappings on multiple data sources

150K

41K
drugs

22K conditions

Validation





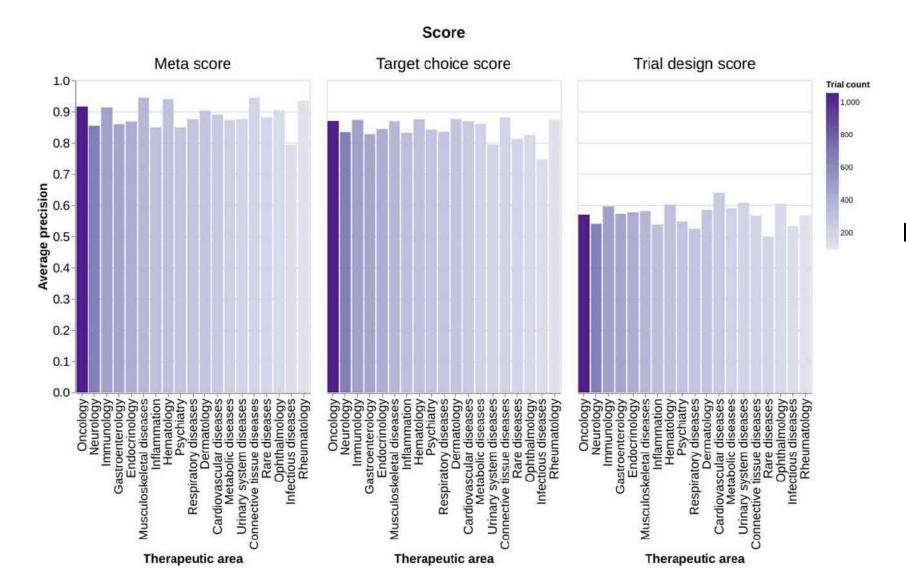
Insilico models have been extensively back tested

We were able to correctly predict **more than 80%** of phase 2 ⇒ phase 3 transitions from 2018 to 2021

	Training data		Validation da	ta
1995		2017	2018	2021

Quasi-Prospective Validation





Meta score ROC AUC 88%

Quasi-Prospective Validation – First-in-class drugs



	ROC AUC		Averaç	ge precision
	Overall	First-in-class	Overall	First-in-class
Meta score	0.882	0.724	0.879	0.731
Target choice score	0.841	0.697	0.841	0.701
Trial design score	0.582	0.591	0.545	0.581

Publications





December 29, 2016

Integrated deep learned transcriptomic and structure-based predictor of clinical trials outcomes

ResearchGate

August, 2022

Multimodal Al Engine for Clinical Trials Outcome Prediction: Prospective Case Study H2 2022 -H2 2023

Prospective forecasts for small-cap and mid-cap pharma companies

ResearchGate

April, 2020

Multimodal Al Engine for Clinical Trials Outcome Prediction: Prospective Case Study of Big Pharma for Q2 2020

Prospective forecasts for Novartis trials

Clinical Pharmacology & Therapeutics

July 22, 2023

Prediction of Clinical Trials Outcomes Based on Target Choice and Clinical Trial Design with Multi-Modal Artificial Intelligence

Analysis of prospective forecasts from August, 2022 paper and 2020 Novartis trials paper

ResearchGate

June, 2020

Multimodal Al Engine for Clinical Trials Outcome Prediction: Prospective Case Study Summer 2020

Prospective forecasts for Roche trials

2019

Successful pilot with Big pharma company

November 2022



Release

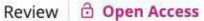
June 2023



Release

2016 2019 2020 2022 2023

Clinical Pharmacology & Therapeutics







Prediction of Clinical Trials Outcomes Based on Target Choice and Clinical Trial Design with Multi-**Modal Artificial Intelligence**

Alex Aliper, Roman Kudrin, Daniil Polykovskiy, Petrina Kamya, Elena Tutubalina, Shan Chen, Feng Ren, Alex Zhavoronkov

First published: 22 July 2023 | https://doi.org/10.1002/cpt.3008 | Citations: 2







TOOLS TOOLS





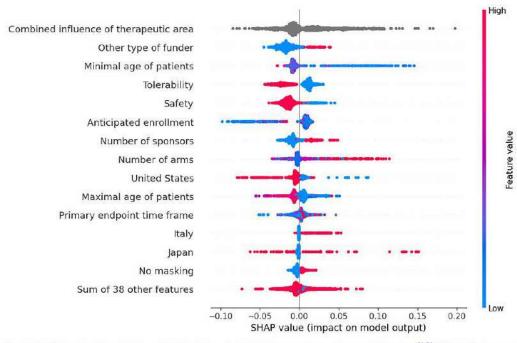


Figure 2 The features that impacted the probability of phase II clinical trial success the most as per SHAP values, 31,32 Full list of features and the descriptions are summarized in Table \$2. SHAP, Shapley Additive Explanations.

Table 3 Prediction performance metrics for quasiprospective validation dataset for the whole dataset of clinical trials and for clinical trials with first-in-class drugs

	ROC	AUC	Average precision		
	Overall	First-in- class	Overall	First-in- class	
Meta score	0.882	0.724	0.879	0.731	
Target choice score	0.841	0.697	0.841	0.701	
Trial design score	0.582	0.591	0.545	0.581	

The following criteria were used simultaneously to determine if the phase II trial was successful (Table 3):

- · Statistical and clinical significance of efficacy and safety end
- · Company decision to transition drug program to phase III;
- · Momentary increase of company's stock price in response to clinical trial results.

The results of trials listed in Table 4 are summarized in Table \$3. It is important to note that the "success" cutoff for the inClinico meta score differs from 0.5 and is 0.48 instead. The threshold was

selected by choosing the threshold which corresponded to the maximum of F1 score on a quasi-prospective validation set.

Case study-NYX-2925 for fibromyalgia conducted by Aptinyx.

We used SHAP values to measure the impact of the trial design features to gain insights about the predictions. We provide SHAP values for the NYX-2925 phase II clinical trial in fibromyalgia (NCT04147858) in Figure 4. The main features influencing the probability of the NYX-2925 trial success are anticipated enrollment, primary type of funder, number of sponsors, tolerability, musculoskeletal system disease, safety, minimal age of patients, and location (USA). The NYX-2925 phase II clinical trial was a randomized, double-blind, placebo-controlled study designed to evaluate the efficacy and safety of NYX-2925 in fibromyalgia. Fibromyalgia is a musculoskeletal system disease characterized by chronic widespread pain.35 The indication of this trial, along with the absence of a tolerability measurement and several numbers of sponsors, improved the forecast probability of success. Other trial design characteristics negatively impact the probability of trial success. The expected enrollment for the NYX-2925 study was substantial for the phase II trial design (300 participants), which could increase the study duration and result

in increased cost and resource utilization or failure to recruit the required number of patients. However, Aptynix was able to

enroll the necessary number of participants in the allotted time.

Prospective Validation – 2020 paper



Predict Improve the Predictor Publish Wait Compare **№** 7.7 Research Interest (i) Preprint | File available Citations Multimodal AI Engine for Clinical Trials Outcome Prediction: Recommendations @ 69 2 new) 5 Prospective Case Study of Big Pharma for Q2 2020 Reads (i) · (ii) (iii) (iii) 11 new) 254 April 2020 See details DOI: 10.13140/RG.2.2.11705.52320 License · CC BY-NC-ND 4.0 🏂 Alexander Zhavoronkov · 🌑 Roman Kudrin · 🎲 Elena Tutubalina · Show all 8 authors · Alexander Aliper

Prospective Validation – 2022 paper





Published forecasts for 40 ongoing clinical trials

19 predicted to succeed, 21 to fail

Prospective Validation — Comparison of inClinico's forecasts with actual trial outcomes



Clinical Pharmacology & Therapeutics

Review 🗈 Open Access 💿 🕦 💲

Prediction of Clinical Trials Outcomes Based on Target Choice and Clinical Trial Design with Multi-Modal Artificial Intelligence

Alex Aliper, Roman Kudrin, Daniil Polykovskiy, Petrina Kamya, Elena Tutubalina, Shan Chen, Feng Ren, Alex Zhavoronkov

First published: 22 July 2023 | https://doi.org/10.1002/cpt.3008

Prospective Validation



Analysis is <u>published</u> in Clinical Pharmacology & Therapeutics

11 out of 14 outcomes (79%)

Predicted correctly

First-in-class drug for a rare disease

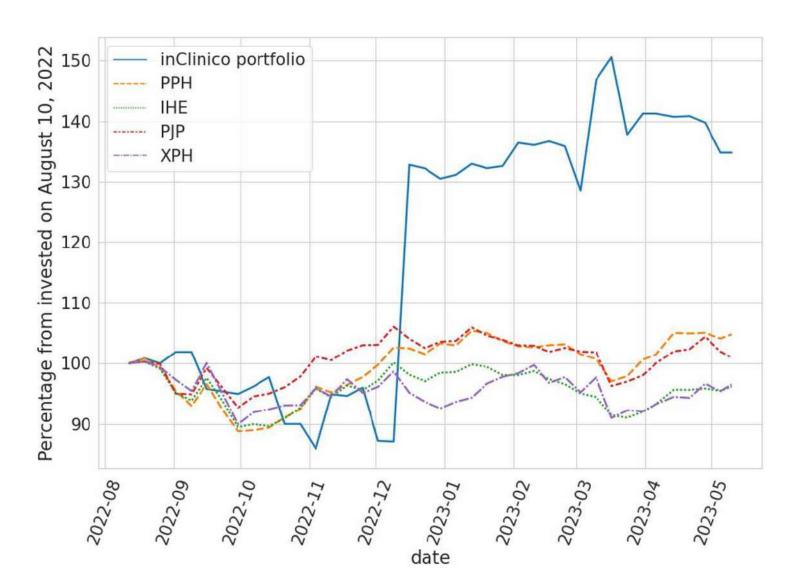
NCT ID	Company Ticker	Drug	inClinico Meta-score	Readout Date	Predicted Outcome	Outcome	Stock price, 10.08.2022	Stock price, Report date
NCT04456998	GOSS	Seralutinib	0.42	Q4 2022	Failure	Failure*	13.62	2.36 (-83%)
NCT04257929	HRMY	Pitolisant	0.27	H2 2022	Failure	Success	52.44	59.26 (12%)
NCT04030026	TRVI	Nalbuphine	0.37	Q3 2022	Failure	Failure*	4.26	2.45 (-42%)
NCT04147858	APTX	NYX-2925	0.09	Q3 2022	Failure	Failure	0.69	0.41 (-40%)
NCT04148391	APTX	NYX-458	0.35	Q1 2023	Failure	Failure	0.69	0.19 (-72%)
NCT04519658	AZN	Atuliflapon	0.57	H2 2022	Failure	Failure	-	-
NCT05137002	CINC	Baxdrostat	0.49	H2 2022	Success	Failure	33.35	14.11 (-58%
NCT03818256	CORT	Miricorilant	0.42	Q4 2022	Failure	Failure	27.7	21.38 (-22%
NCT04524403	CORT	Miricorlilant	0.42	Q4 2022	Failure	Failure	27.7	21.38 (-22%
NCT05193409	BNOX	BNC210	0.56	Q4 2022	Success	Failure	6.32	5.89 (-7%)
NCT04265651	BBIO	Infigratinib	0.59	Q1 2023	Success	Success	11.99	18.55 (+55%
NCT04112199	BIVI	Terlipressin	0.5	Q1 2023	Success	Success	2.05	9.2 (+349%
NCT04109313	NVS	Remibrutinib	0.77	Q3 2022	Success	Success	-	-
NCT03896152	NVS	LNP029	0.79	Q2 2021	Success	Success	-	-

^{*} Gossamer Bio's and Trevi Therapeutics's clinical readouts were statistically significant and presented as positive, the "Failure" assumption is based on the investment community reception

Prospective Validation



9-month Mid-& Small-cap CBOE option-based portfolio time-weighted return (TWR) – **35%**



PPH - VanEck Pharmaceutical ETF

IHE - iShares US Pharmaceuticals ETF

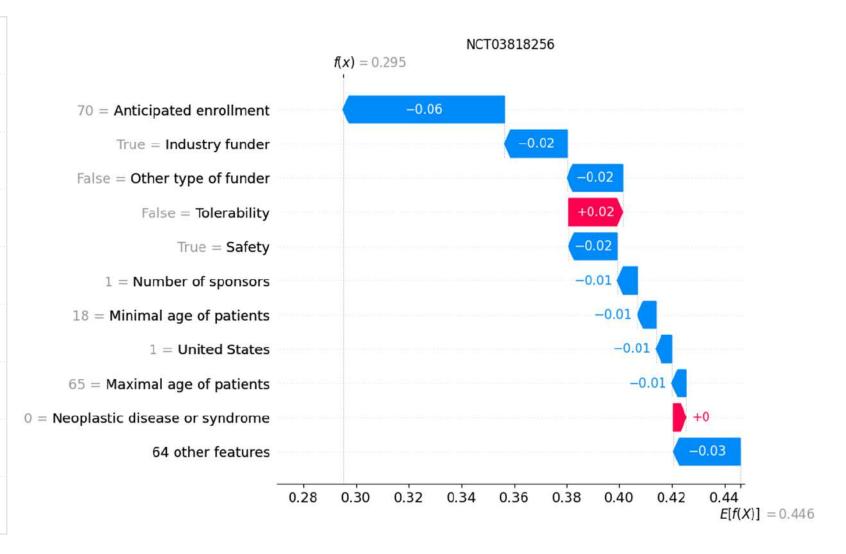
PJP - Invesco Dynamic Pharmaceuticals ETF

XPH - SPDR S&P Pharmaceuticals ETF

De-black-boxing Impact of Clinical Trial Design Features on the Forecast



Condition	Anti-psychotic-induced weight gain			
Target(s)	NR3C1, NR3C2			
Organization	Corcept			
NCT ID	NCT03818256			
Phase	2			
Readout date	December 8, 2022			
Stock price change	-22%			
Trial design score	0.295			
Actual outcome	Failure			



Common Use Cases





From Pharma's point of view



Identify the red flags of current and ongoing trials to make corrections before the first patient is enrolled



Prioritize clinical and preclinical programs



Identify what went wrong with past trials



Keep track of the competition



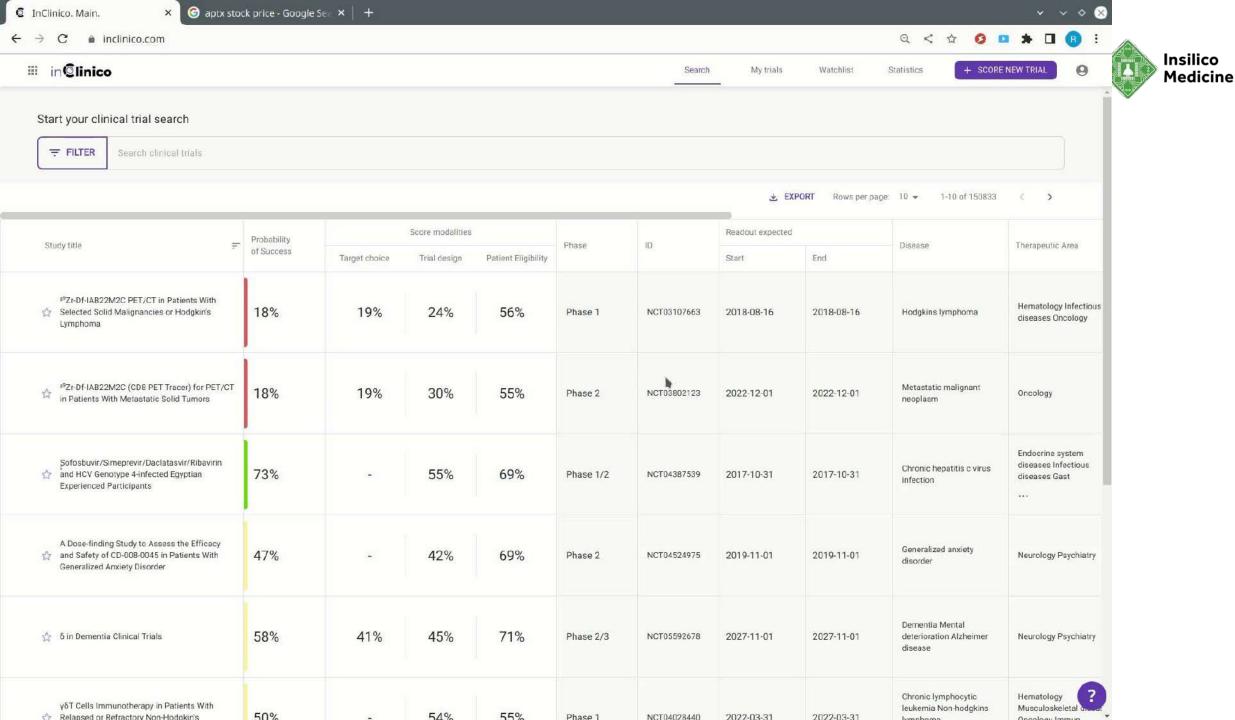
From an Investor's point of view



Identify what companies or projects are likely to be successful



Correctly adjust NPV for risk and value to generate greater returns





Can We Use AI to Discover a Novel Target, Generate Compounds With Desired Properties, and Predict PTRS For A Commercial Clinical Program?

nature biotechnology



Article https://doi.org/10.1038/s41587-024-02143-0

A small-molecule TNIK inhibitor targets fibrosis in preclinical and clinical models

Received: 26 June 2023

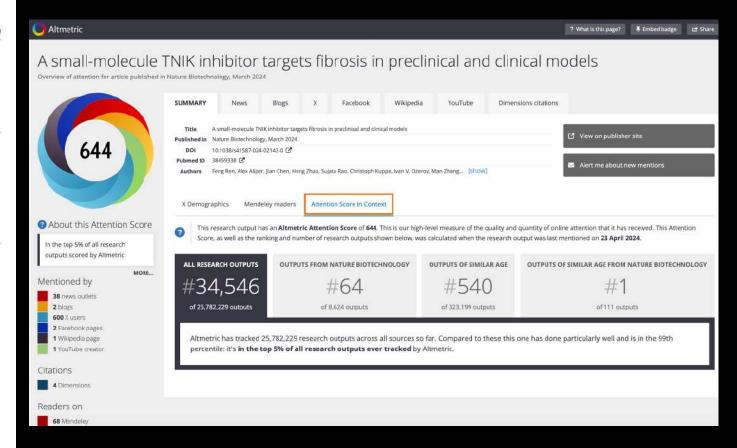
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Published online: 08 March 2024

Check for updates

Feng Ren¹², Alex Aliper²³, Jian Chen⁴, Heng Zhao¹, Sujata Rao⁵,
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Vladimir Aladinskiy², Yan Ivanenkov³, Daniil Polykovskiy 📵 ⁶, Yanyun Fu¹,
Eugene Babin², Junwen Qiao¹, Xing Liang¹, Zhenzhen Mou¹, Hui Wang¹,
Frank W. Pun³, Pedro Torres Ayuso 🎱 ⁶, Alexander Veviorskiy², Dandan Song⁴,
Sang Liu¹, Bei Zhang¹, Vladimir Naumov², Xiaoqiang Ding¹o,
Andrey Kukharenko³, Evgeny Izumchenko¹¹ & Alex Zhavoronkov 🎱 ².3.5.8 🖂

Idiopathic pulmonary fibrosis (IPF) is an aggressive interstitial lung disease with a high mortality rate. Putative drug targets in IPF have failed to translate into effective therapies at the clinical level. We identify TRAF2- and NCK-interacting kinase (TNIK) as an anti-fibrotic target using a predictive artificial intelligence (AI) approach. Using AI-driven methodology, we generated INS018 055, a small-molecule TNIK inhibitor, which exhibits desirable drug-like properties and anti-fibrotic activity across different organs in vivo through oral, inhaled or topical administration, INSO18 055 possesses anti-inflammatory effects in addition to its anti-fibrotic profile, validated in multiple in vivo studies. Its safety and tolerability as well as pharmacokinetics were validated in a randomized, double-blinded, placebo-controlled phase I clinical trial (NCT05154240) involving 78 healthy participants. A separate phase I trial in China, CTR20221542, also demonstrated comparable safety and pharmacokinetic profiles. This work was completed in roughly 18 months from target discovery to preclinical candidate nomination and demonstrates the capabilities of our generative Al-driven drug-discovery pipeline.



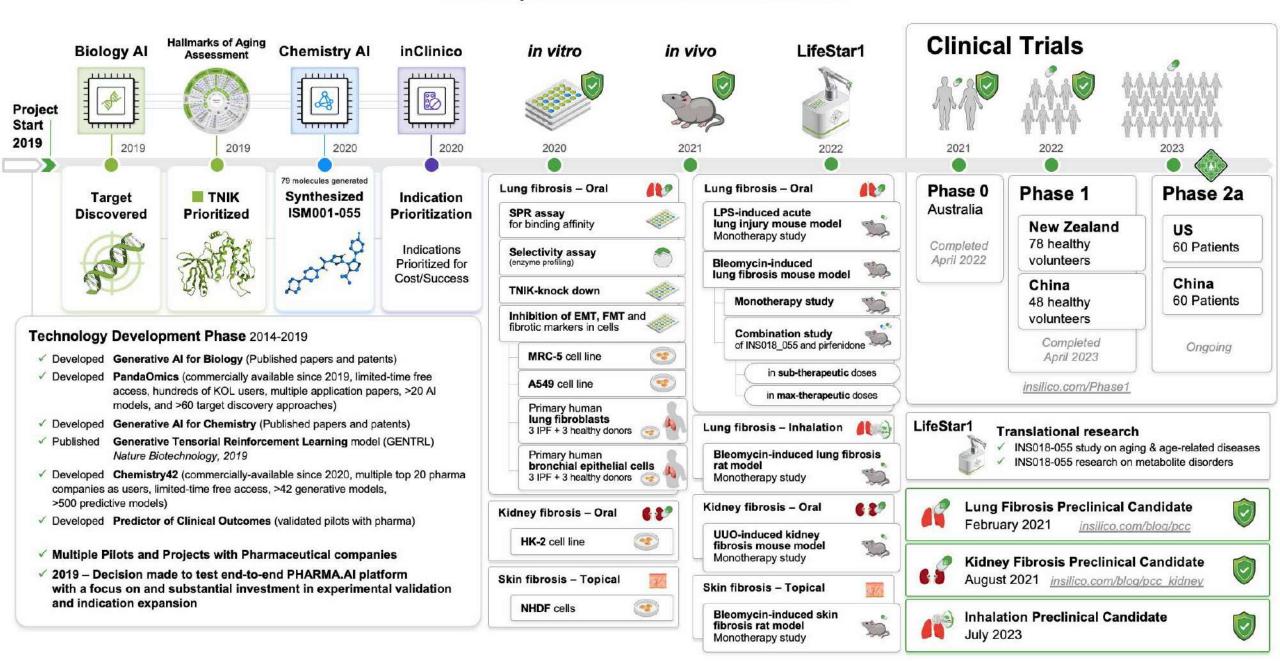
Ren, F., Aliper, A., Chen, J. et al. A small-molecule TNIK inhibitor targets fibrosis in preclinical and clinical models. *Nat Biotechnol* (2024). https://doi.org/10.1038/s41587-024-02143-0

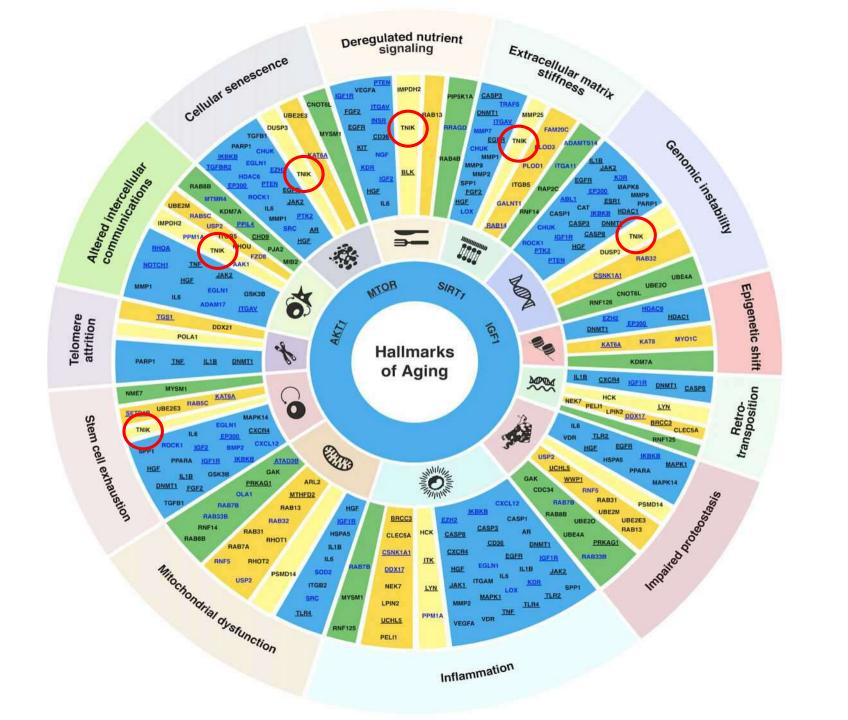
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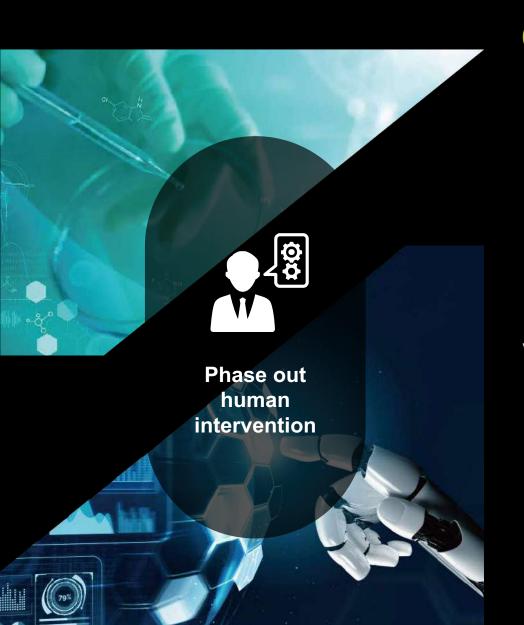


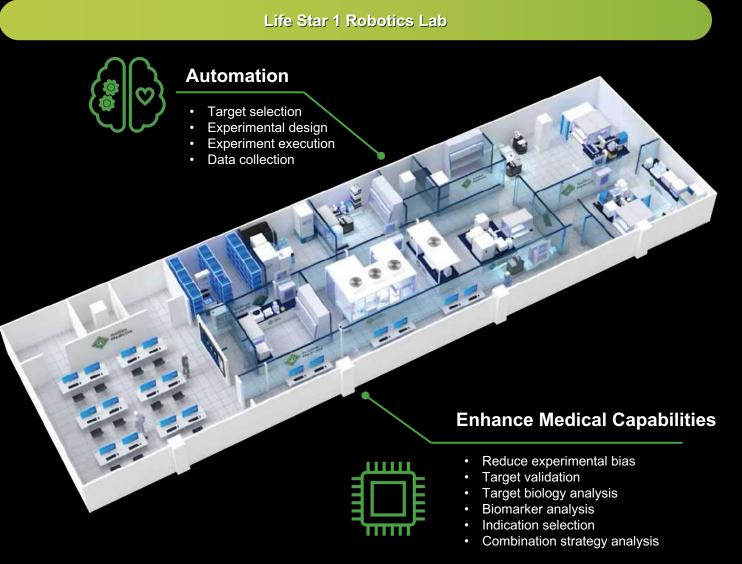


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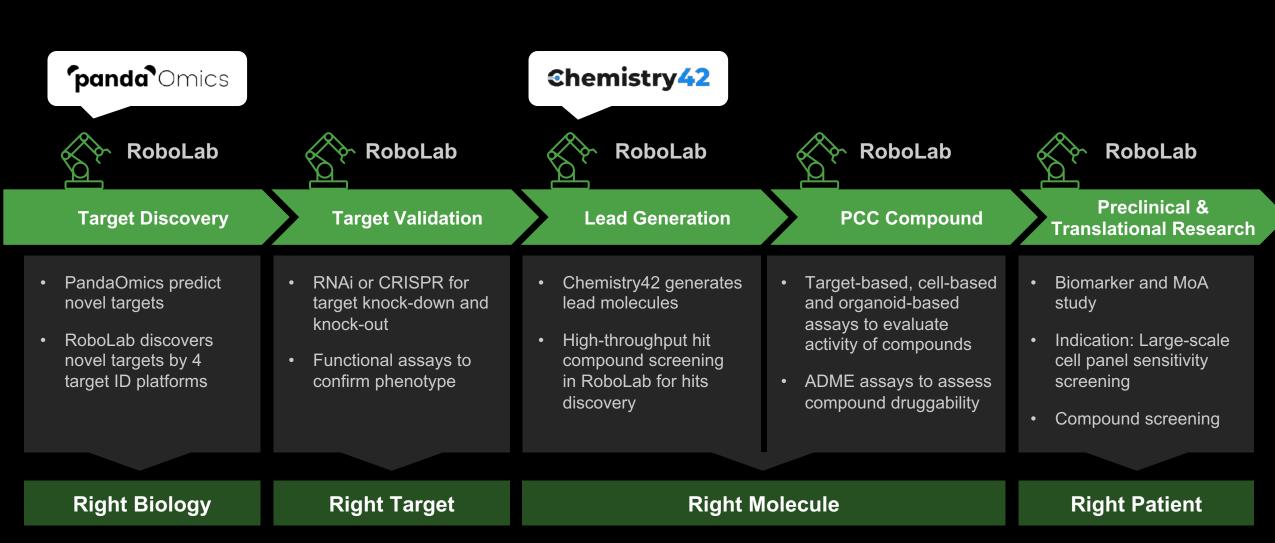
Next-gen Robotics Lab Expanding Research Capabilities



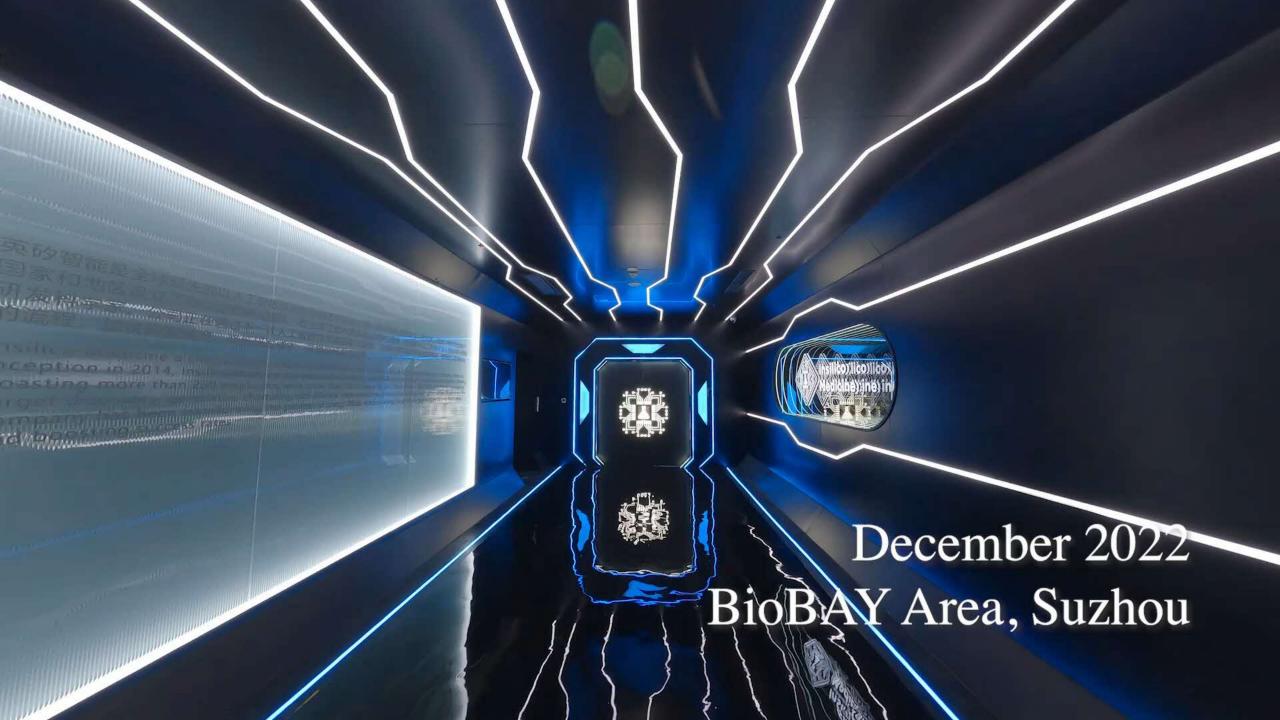




Al-driven Robotic Lab Has the Potential to Accelerate Early Stage Drug Discovery Process











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Thank You