evogene

REAL-WORLD INNOVATION

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AI-first discovery platform generating multi-parameter molecules

November 27, 2025

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THERE IS A GAP

BETWEEN REAL-WORLD CHALLENGES
AND INNOVATIVE SOLUTIONS

UTILIZING

AI AND ADVANCED PROPRIETARY ALGORITHMS

TO DELIVER INNOVATIVE SMALL MOLECULES, TAILORED TO REAL-WORLD COMMERCIAL PRODUCT NEEDS

WE CALL IT: REAL-WORLD INNOVATION

EVOGENE PIONEERS

REAL-WORLD INNOVATION

Using a proprietary generative AI engine, we design highly potent and novel small molecules, optimized across multiple-parameters, for the pharmaceutical and ag-chemical industries

OUR STORY IN 3 SENTENCES

GEN AI ENGINE

Design of small molecules with high probability of success

REVOLUTIONIZING AG

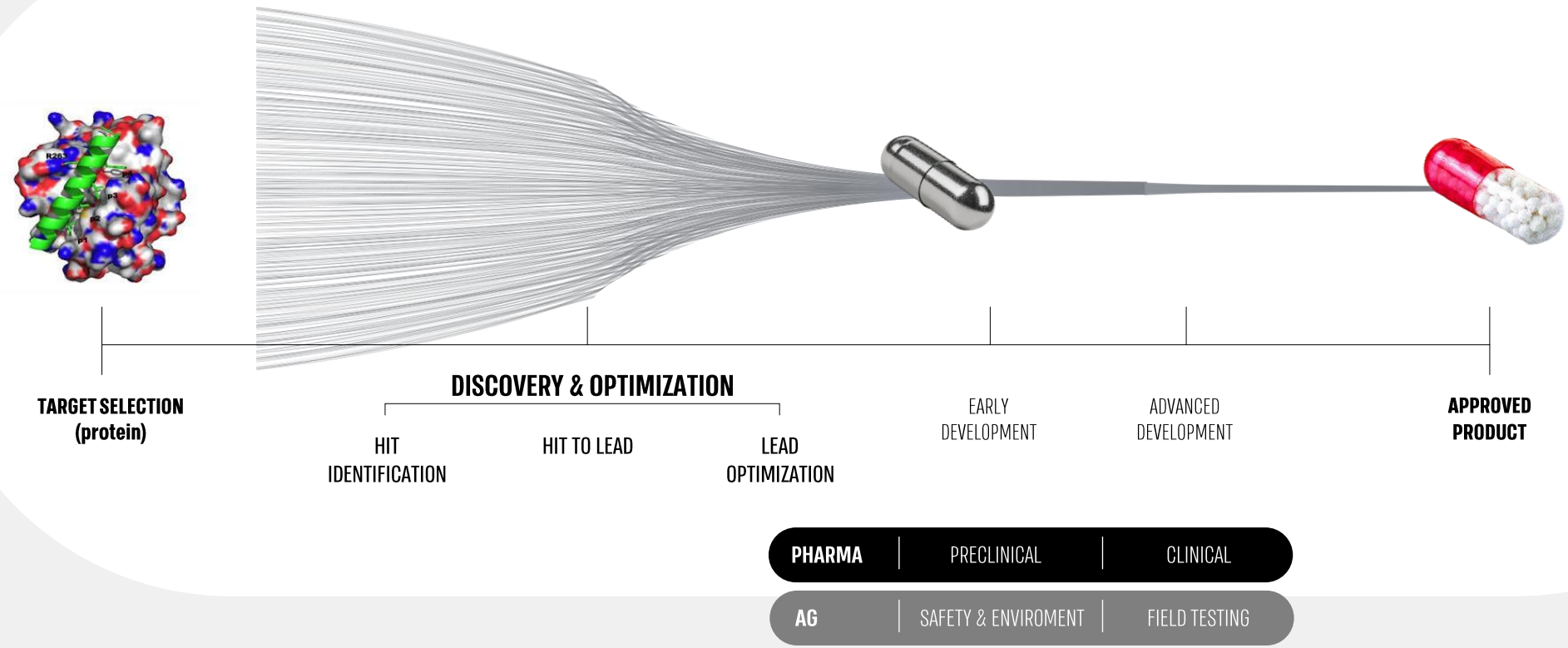
Proven results with strategic collaborations

PIONEERING IN PHARMA

Differentiated tech offering that fits market demand

THE DISCOVERY & OPTIMIZATION CHALLENGE

DESIGN THE RIGHT CANDIDATES TO REACH THE MARKET



LESS THAN 10% OF MOLECULES TESTED IN CLINICAL TRIALS MAKE IT TO MARKET

Discovery & optimization are the critical stages for increasing market success probability

THE MULTI-PARAMETER OPTIMIZATION **CHALLENGE**

Creating a molecule that will succeed through all development phases requires balancing in advance multiple, often competing, parameters

THE CHALLENGE FOR TRADITIONAL METHODS:

- Optimization typically limited to a small number of parameters
- Cannot address multiple-parameters simultaneously
- Requires lengthy, resource-intensive iterative cycles

INTRODUCING CHEMPASS AI:

A MULTI-PARAMETER DESIGN ENGINE FOR REAL-WORLD INNOVATION

ChemPass AI

MULTI-PARAMETER OPTIMIZATION

Optimizes multiple-parameters simultaneously, adapted to project specific chemical, biological, and physical constraints, increasing probability of success

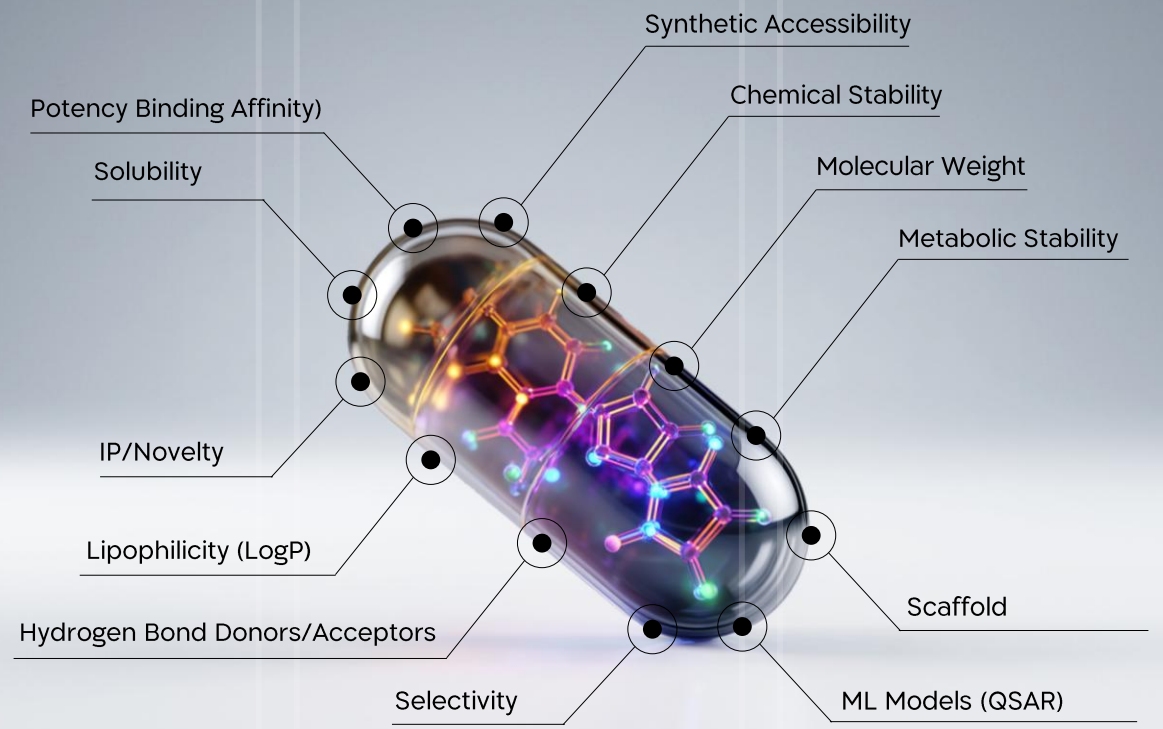
NOVEL MOLECULAR STRUCTURES

Based on 38B molecules, the algorithm generates completely novel, synthesizable and effective compounds, extending beyond explored chemical space.

HIGHLY POTENT

AI-first designed molecules optimized through targeted experimental validation

CHEMPASS AI:
A MULTI-PARAMETER GENERATIVE DESIGN ENGINE FOR REAL-WORLD INNOVATION



CHEMPASS AI TRANSFORMS TRADITIONAL METHODS:

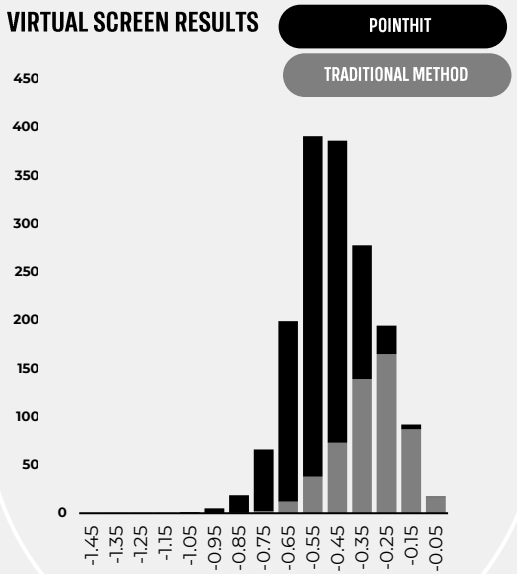
- Optimization of diverse product specific parameters
- Addresses multiple constraints simultaneously
- Minimizes lengthy, resource-intensive iterative cycles

CHEMPASS AI FOUNDED BY PROPRIETARY TECHNOLOGY
BOOSTING PROBABILITY OF SUCCESS

Step 1

HIT SCREENING
WITH *POINTHIT™*

Utilizing deep learning to enhance rapid screening in ultra-large databases



Step 2

HIT TO LEAD
WITH *ACTIVESEARCH™*

DMTA coupled with upgraded analog search using proprietary algorithms

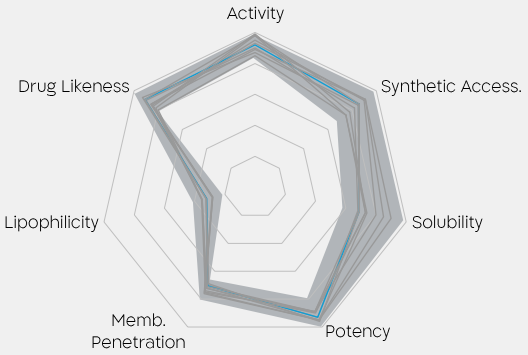
UP TO 400-FOLD IMPROVEMENT

ACTIVESEARCH RESULTS	1,800
SELECTED & PURCHASED	41
ACTIVE	16
SUB MICROMOLAR POTENCY	7

Step 3

LEAD OPTIMIZATION
WITH *LEADOP GPT™*

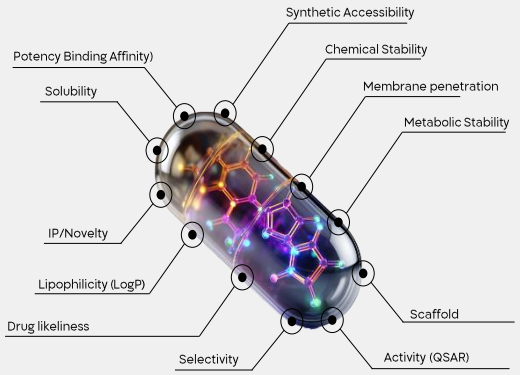
Simultaneous optimization of multiple parameters using generative AI



REACHED MULTI-PARAMETER OPTIMIZED nMol ACTIVE NOVEL COMPOUNDS

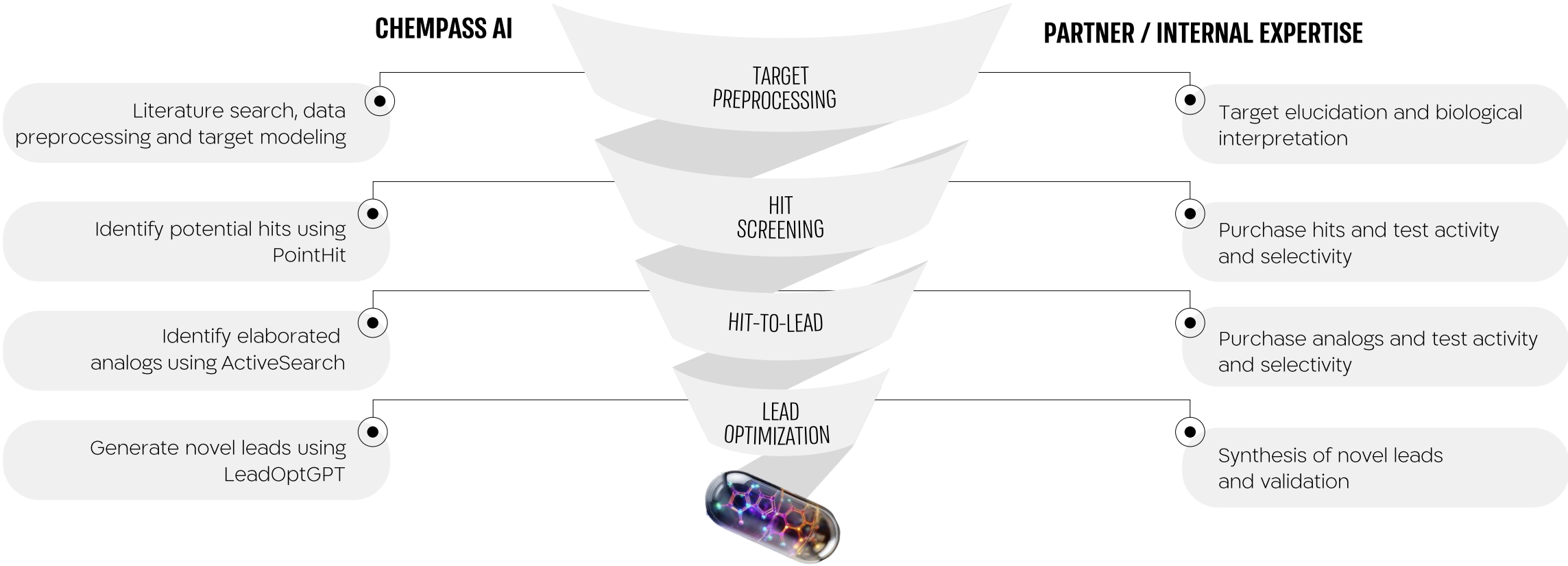
Result

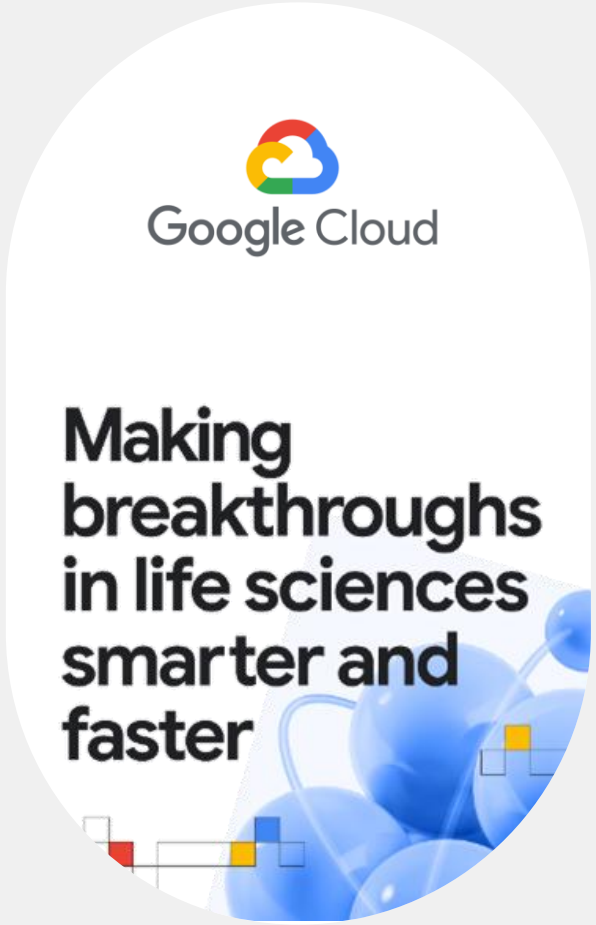
PRODUCT CANDIDATE



THE KEY FOR SUCCESS –STRATEGIC PARTNERSHIPS / INTERNAL EXPERTISE

TAILORED TO EACH CHALLENGE & OPTIMIZED FOR SUCCESS





GOOGLE CLOUD x EVOGENE

BREAKING NEW GROUND IN AI-FIRST MOLECULE DESIGN

TRANSFORMATIVE PARTNERSHIP

Combining Evogene's proprietary AI foundation model, with Google Cloud's world-class infrastructure to scale revolutionary molecular discovery

ACCELERATED INNOVATION

Google's infrastructure enabled efficient use of a massive dataset starting with millions and ultimately reaching a training set of approximately 38 billion molecular structures

3x IMPROVED ACCURACY

Optimization across multiple-parameters reached 90% precision (vs. 29% in traditional GPT AI-model)

"We're pleased to collaborate with Evogene's innovation in AI-powered molecule design. Their progress with ChemPass AI highlights the strength of pairing advanced AI infrastructure with deep scientific insight. We look forward to seeing the impact of this new model in drug discovery and agriculture."

BOAZ MAOZ, MANAGING DIRECTOR, GOOGLE CLOUD ISRAEL

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agPlenus
EVOGENE'S SUBSIDIARY

A GROWING MARKET
WITH PLENTY OF ROOM FOR INNOVATION

1 Increase of pest resistance & regulatory requirements

2 Urgent need for new Modes of Action (MoAs)

3 Decreased rate in discovery of new pesticides due to lack of innovation

$43.3B
BROAD SPECTRUM HERBICIDES[1]

$22.2B
FUNGICIDES FOR MAJOR DISEASES[2]

$22.3B
BROAD SPECTRUM INSECTICIDES[3]

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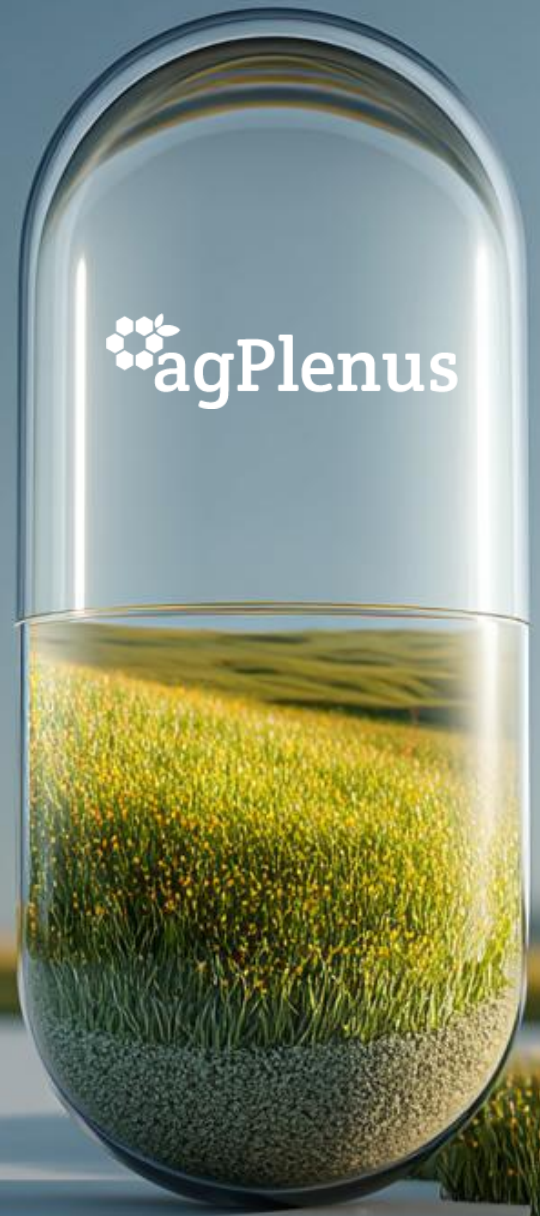
Company calculation based on: 1) Mordor Intelligence 2) Fortune Business Insights 3) Data Bridge

agPlenus
EVOGENE'S SUBSIDIARY

With rising pest resistance, tighter regulation, and laggard development

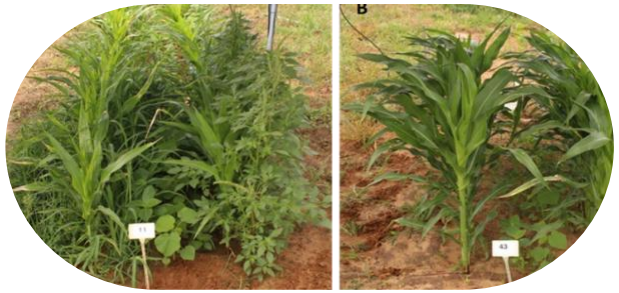


COMPUTATIONAL CHEMISTRY CAN CREATE REAL-WORLD IMPACT IN AGRICULTURE

STRATEGIC **COLLABORATIONS**

"Bringing together AgPlenus' expertise with Bayer's CropKey approach to crop protection innovation will help accelerate the delivery of essential, sustainable, and affordable solutions to farmers and set a new benchmark in the industry."

Rachel Rama, Head of Small Molecules, Crop Science division



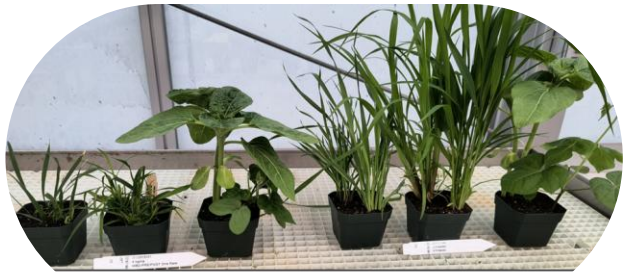
Nontreated Treated

Development of new sustainable Mode-of-Action broad spectrum, herbicide

Demonstrated high weed control efficacy and good tolerance in corn

"The collaboration with AgPlenus has accelerated the identification of a class of herbicide chemistry that targets a new mode-of-action for weed control, something the industry has been lacking for decades."

Vid Hegde, Former VP of Crop Protection Discovery and Development



Treated nontreated

Development of novel herbicides

Demonstrated weed growth reduction in post emergence application

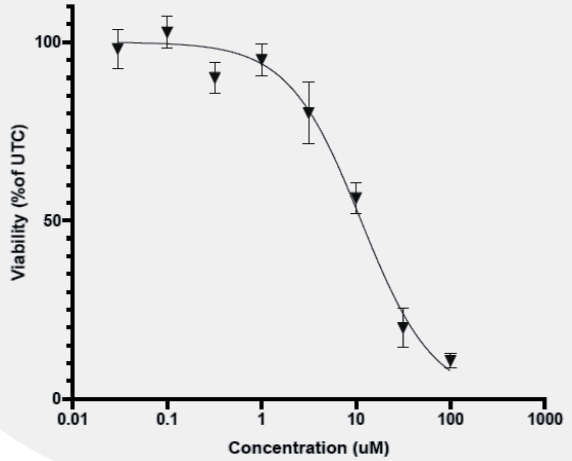
agPlenus
EVOGENE'S SUBSIDIARY

INTERNAL PIPELINE
WHEAT BLOTCH

DISRUPTING A $1.2B PROBLEM AT RECORD SPEED

- 70% of EU fungicide usage in wheat is for Wheat Blotch[1]
- EU market alone >$1.2B annually[1]
- Widespread resistance to current top products ('Strobilurins') with 2024 sales of $4.59B[2]

APTF-4 PRESENTS STRONG POTENTIAL FOR REAL-WORLD INNOVATION



- Shows clear concentration-dependent antifungal efficacy
- Ongoing optimization to enhance potency
- 18 months from target to optimized hit

1) TResearch Summer 2019 2) Global Growth Insights

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GROWING OPPORTUNITY IN AI-DRUG DISCOVERY



SMALL MOLECULES

Account for
58%
Of total pharmaceutical market ($1,344B)

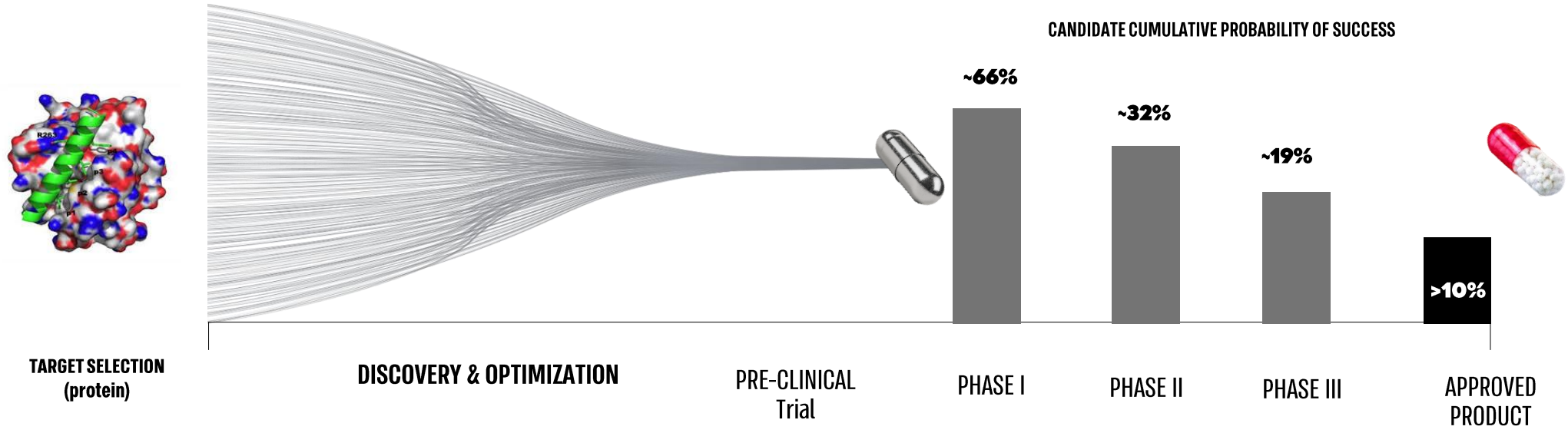
AI-based candidates in pipeline
>60
150% CAGR in last 3 years

Discovery market expected to reach
$190.68B
by 2034


1) DCAT Value Chain Insights 2) Science Direct 3) Precedence Research

THE DISCOVERY AND OPTIMIZATION CHALLENGE

DEVELOPING CANDIDATES THAT WILL REACH THE MARKET



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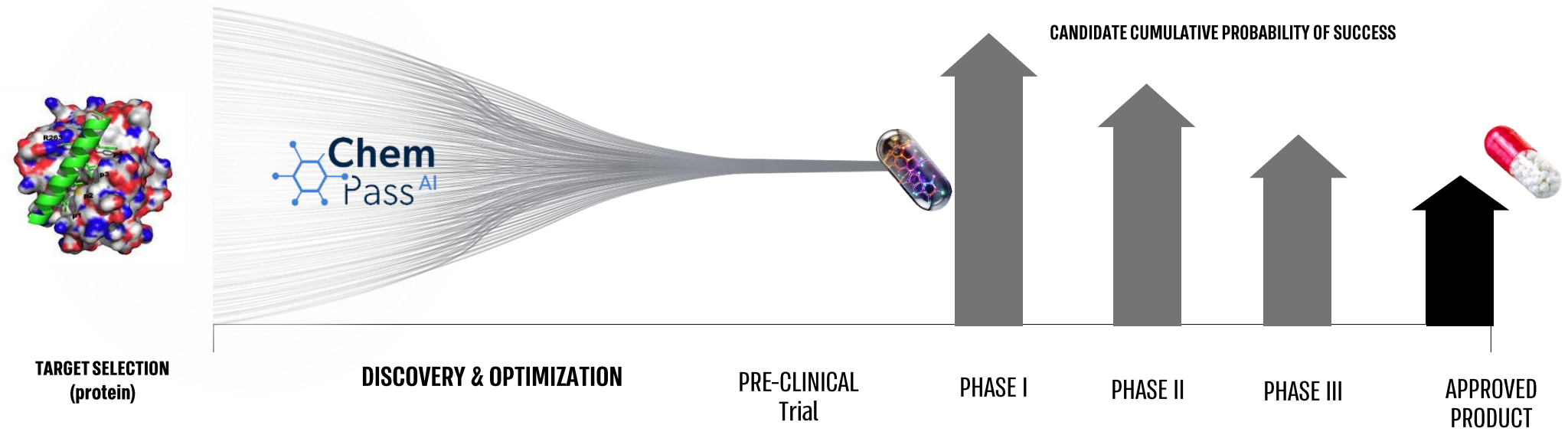
https://pmc.ncbi.nlm.nih.gov/articles/PMC9293739

CHEMPASS AI: DRIVING HIGHER CUMULATIVE PROBABILITY OF SUCCESS



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https://pmc.ncbi.nlm.nih.gov/articles/PMC9293739/

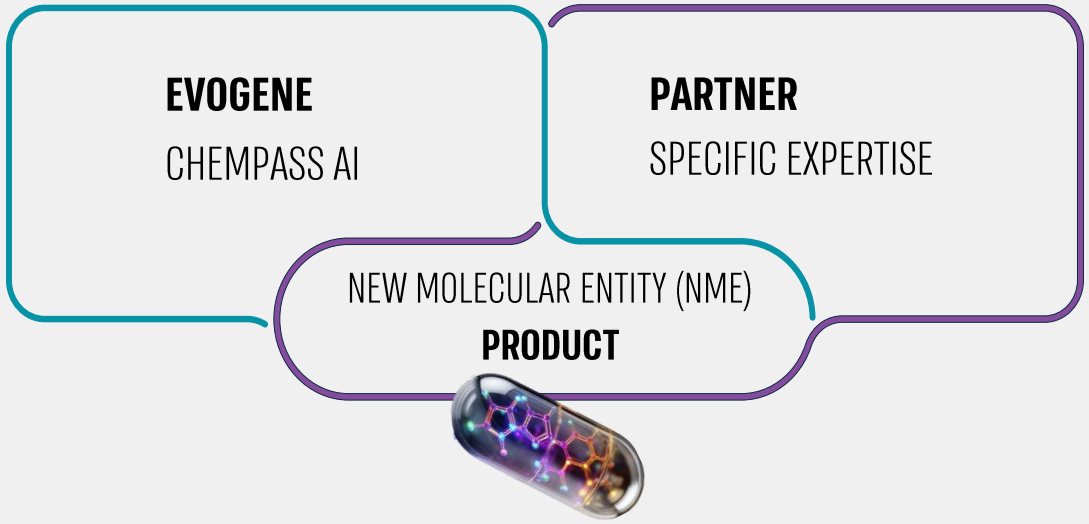
BUSINESS STRATEGY

CAPTURE THE VALUE OF CHEMPASS AI

through diverse collaborative partnerships to accelerate small molecule-based drug development.

PARTNERING WITH PHARMA AND BIOTECH COMPANIES

that complement our technology, enabling groundbreaking innovations that benefit both parties.



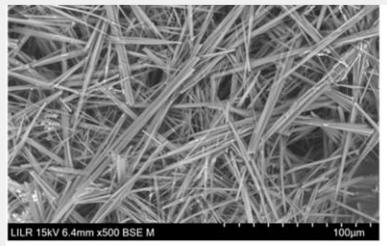
STRATEGIC **COLLABORATIONS**

Evogene and Professor Ehud Gazit of Tel Aviv University Collaborate to develop new therapeutics for metabolite Disease

The collaboration aims to design novel small molecules that can effectively inhibit pathological self-assembly processes, leading to transformative new therapeutics with the potential to improve the lives of millions of patients suffering from diseases including Tyrosinemia, Gout and Maple Syrup Urine Disease (MSUD).

The collaboration brings together Evogene's ChemPass AI's state-of-the-art computational capabilities for generative molecular design with Professor Gazit's world-renowned expertise in the characterization and manipulation of molecular self-assembly.

Scanning electron microscopy of crystals formed by the self-assembly of a metabolite



* Costa-Bauza, A., & Grases, F. (2023). Biomolecules, 13(12), 1769.

DELIVERING REAL-WORLD INNOVATION

THROUGH TWO STRATEGIC MARKET OPERATIONS ~~DIVISIONS~~

ChemPass AI

PHARMA DIVISION

EXTERNAL COLLABORATIONS

TEL AVIV UNIVERSITY Metabolic Disease

INTERNAL PIPELINE

Undisclosed

agPlenus

EVOGENE'S SUBSIDIARY

STRATEGIC COLLABORATION

BAYER Herbicides

CORTEVA agriscience Herbicides

INTERNAL PIPELINE

Wheat Blotch

evOgene

Creating

REAL-WORLD INNOVATION

for a better future