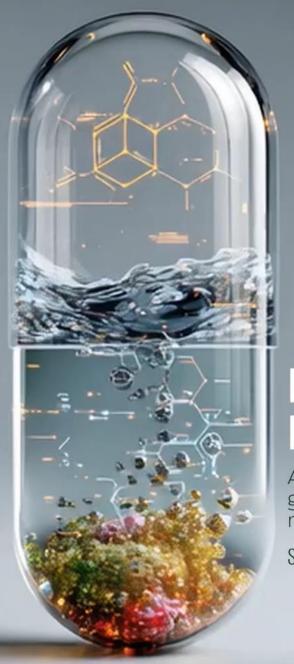


evøgene |



REAL-WORLD INNOVATION

Al-first discovery platform generating multi-parameter molecules

Sep 10, 2025

FORWARD LOOKING STATEMENT

This presentation contains "forward-looking statements" relating to future events, and Evogene Ltd. (the "Company"), may from time to time make other statements, regarding our outlook or expectations for future financial or operating results and/or other matters regarding or affecting us that are considered "forward-looking statements" as defined in the U.S. Private Securities Litigation Reform Act of 1995 (the "PSLRA") and other securities laws, as amended. Statements that are not statements of historical fact may be deemed to be forward-looking statements. Such forward-looking statements may be identified by the use of such words as "believe", "expect", "anticipate", "should", "planned", "estimated", "intend" and "potential" or words of similar meaning. We are using forward-looking statements in this presentation when we discuss our value drivers, commercialization efforts and timing, product development and launches, estimated market sizes and milestones, pipeline, as well as our capabilities and technology.

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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



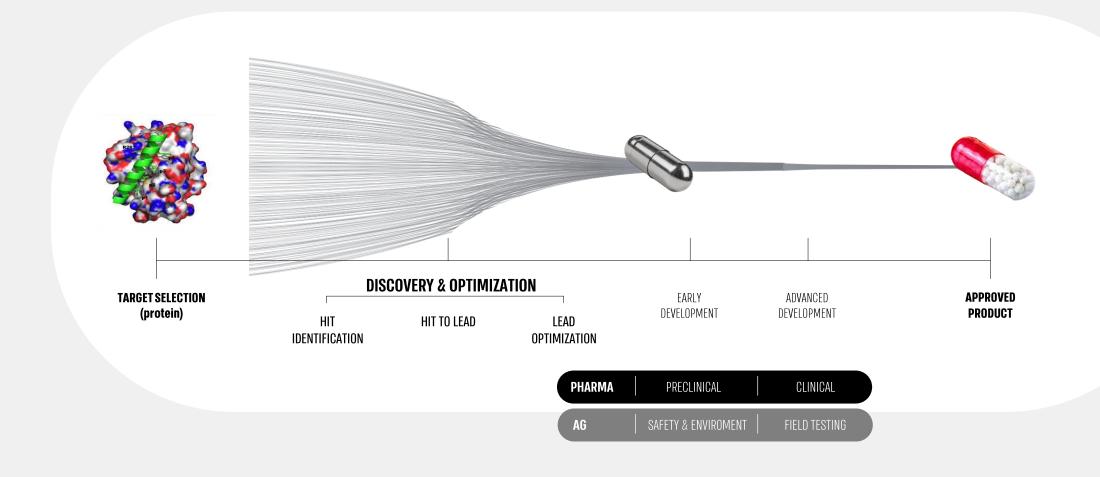
PIONEERING IN PHARMA

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

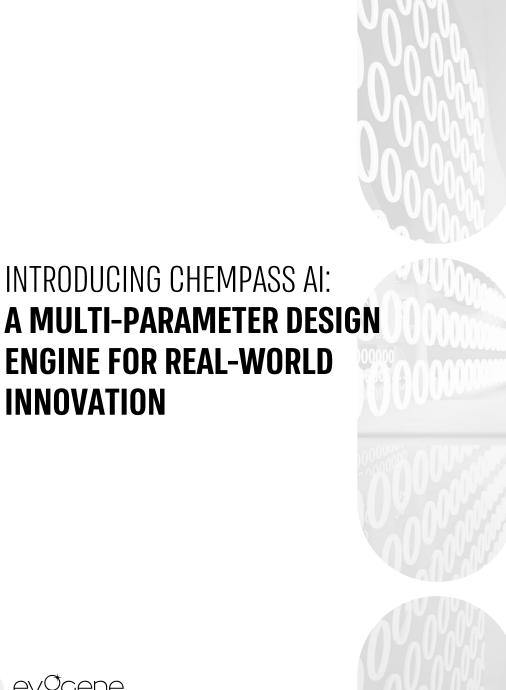
THE MULTI-PARAMETER OPTIMIZATION **CHALLENGE**

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 multipleparameters simultaneously
- Requires lengthy, resourceintensive iterative cycles







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, expanding far beyond traditional libraries, tapping into one of the largest searchable chemical universes

HIGHLY POTENT

Al-first designed molecules optimized through targeted experimental validation



INNOVATION

CHEMPASS AI: A MULTI-PARAMETER 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





Making breakthroughs in life sciences smarter and faster

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

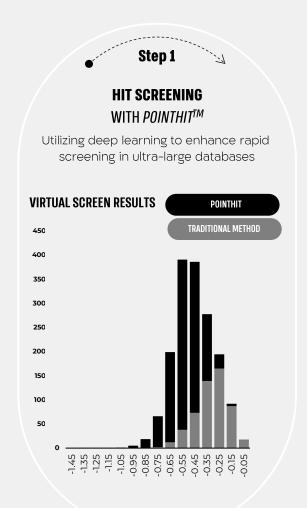
3x IMPROVED ACCURACY

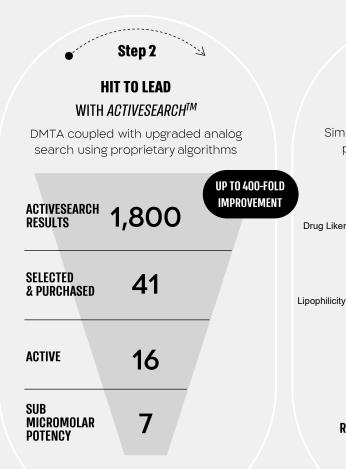
Optimization across multiple-parameters reached 90% precision (vs. 29% in traditional GPT Al-model)

"We're pleased to collaborate with Evogene's innovation in Alpowered 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

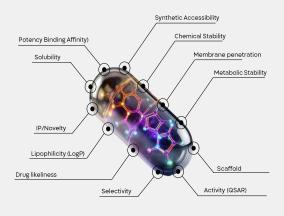
CHEMPASS AI FOUNDED BY PROPRIETARY TECHNOLOGY BOOSTING PROBABILITY OF SUCCESS





Step 3 **LEAD OPTIMIZATION** WITH *LEADOP GPT™* Simultaneous optimization of multiple parameters using generative Al Activity Synthetic Drug Likeness Access. Lipophilicity Solubility Memb. Potency Penetration **REACHED MULTI-PARAMETER OPTIMIZED nMolactive Novel Compounds**

Result DEVELOPMENT CANDIDATE



DELIVERING REAL-WORLD INNOVATION

THROUGH TWO STRATEGIC MARKET DIVISIONS



PHARMA DIVISION

AG DIVISION VIA AGPLENUS

EXTERNAL COLLABORATIONS



Metabolic Disease

INTERNAL PIPELINE

Undisclosed

STRATEGIC COLLABORATION

Herbicides **CORTEVA** Herbicides

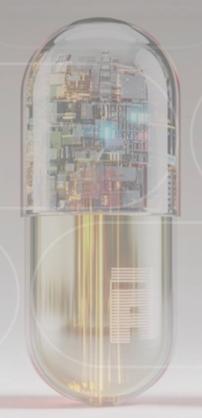
INTERNAL PIPELINE

Wheat Blotch

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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



A GROWING MARKET WITH PLENTY OF ROOM FOR INNOVATION

- Increase of pest resistance & regulatory requirements
- Urgent need for new Modes of Action (MoAs)
- Decreased rate in discovery of new pesticides due to lack of innovation



\$43.3B BROAD SPECTRUM HERBICIDES¹

\$22.2B FUNGICIDES FOR MAJOR DISEASES²

\$22.3B BROAD SPECTRUM INSECTICIDES³





STRATEGIC COLLABORATIONS

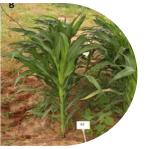


"Bringing together AgPlenus' expertise with Bayer's CropKey approach to crop protection innovation will help accelerate the delivery of essential, sustainable, and affordable solutions to farmers and set a new benchmark in the industry."

Rachel Rama, Head of Small Molecules, Crop Science division







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 modeof-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

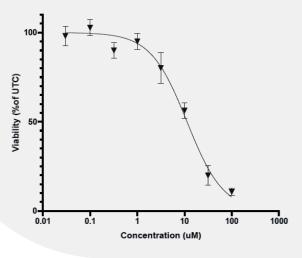


INTERNAL PIPELINE WHEAT BLOTCH

DISRUPTING A \$1.2B PROBLEM AT RECORD SPEED

- 70% of EU fungicide usage in wheat is for Wheat Blotch¹
- EU market alone >\$1.2B annually1
- Widespread resistance to current top products ('Strobilurins') with 2024 sales of \$4.59B²

APTF-4 PRESENTS STRONG POTENTIAL FOR REAL-WORLD INNOVATION

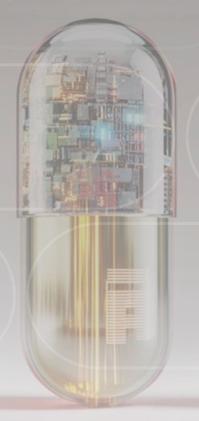


- Shows clear concentration dependent antifungal efficacy
- Ongoing optimization to enhance potency
- 18 months from target to optimized hit

OUR STORY IN 3 SENTENCES

GEN AI ENGINE

Design of small molecules with high probability of success



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Proven results with strategic collaborations



PIONEERING IN PHARMA

Differentiated tech offering that fits market demand



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

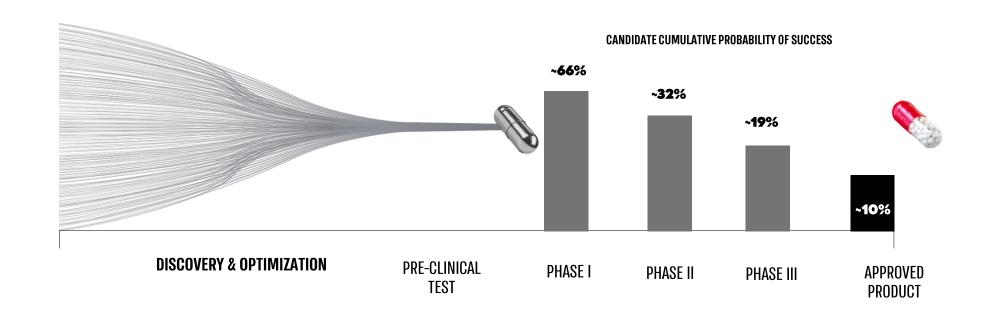
by 2034



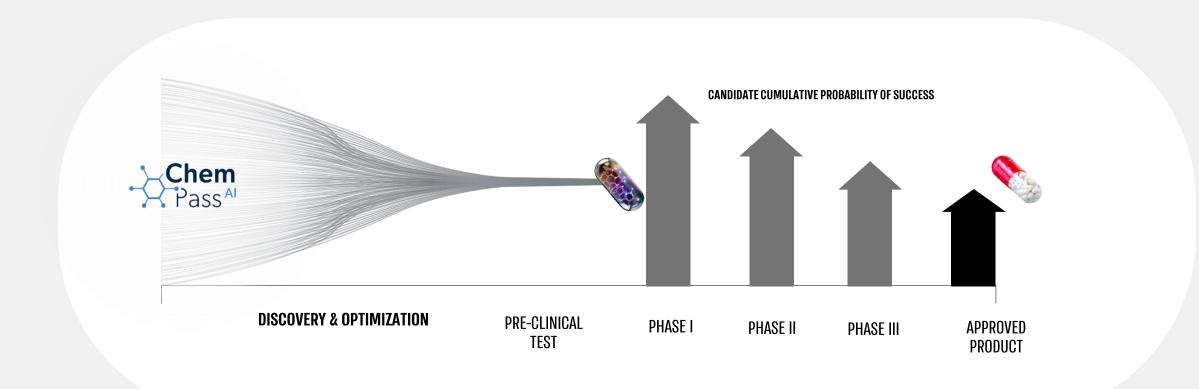


THE DISCOVERY AND OPTIMIZATION CHALLENGE

DEVELOPING CANDIDATES THAT WILL REACH THE MARKET

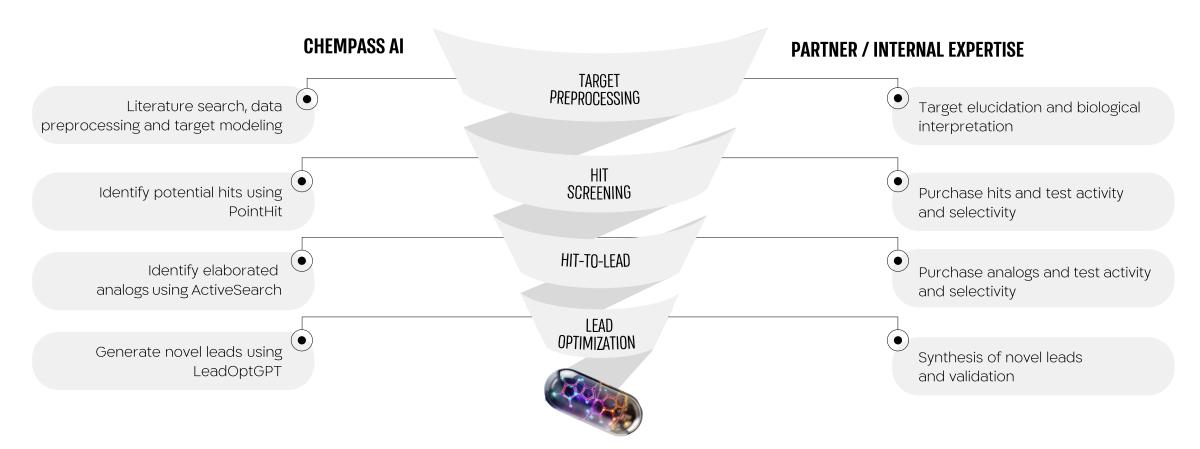


CHEMPASS AI: DRIVING HIGHER CUMULATIVE PROBABILITY OF SUCCESS



THE KEY FOR SUCCESS –STRATEGIC PARTNERSHIPS / INTERNAL EXPERTISE

TAILORED TO EACH CHALLENGE & OPTIMIZED FOR SUCCESS



SHOWCASING SYSTEM CAPABILITIES: MOLECULAR GLUE CASE STUDY

PARTNERSHIP WITH LEADING BIOTECH

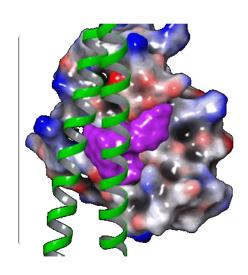
To develop first-in-class molecular glue therapeutics

NOVEL TARGET:

Protein-protein interaction, considered highly challenging

CHEMPASS AI GENERATED 150 MOLECULES WITH PROMISING RESULTS

- 100% novelty (not in DBs or patents)
- Synthesizability confirmed
- 93% uniqueness
- 92% validity (chemically viable)
- 6x improvement in binding prediction accuracy



MORE REAL-WORLD INNOVATION IN AG AND PHARMA MEANS A BETTER WORLD FOR ALL



REAL-WORLD INNOVATION

Unique technology to create novel small molecules

AI-FIRST, FROM HIT TO LEAD

Integrating proprietary technology across the entire discovery pipeline

HIGHER PROBABILITY OF SUCCESS

90% of molecules generated meet all predefined parameters



MULTI-PARAMETER OPTIMIZATION

Balancing ~20 constrains simultaneously using ChemPass Al

UNLIMITED INNOVATION

Based on ~38B molecule structures

PROVEN IN AG PIONEERING IN PHARMA

Real-world impact where it matters most

evøgene



Creating

REAL-WORLD INNOVATION

for a better future