evogene

REAL-WORLD INNOVATION



REAL-WORLD INNOVATION

AI-first driven discovery platform for multi-parameter small-molecule generation

November 8, 2026

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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EVOGENE PIONEERS
REAL-WORLD INNOVATION

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



OUR STORY

PIONEERING IN PHARMA

Growing number of collaborations for a diverse pipeline of drug candidates



GEN AI ENGINE

ChemPass AI™ - computational engine for the generation & optimization of small molecules



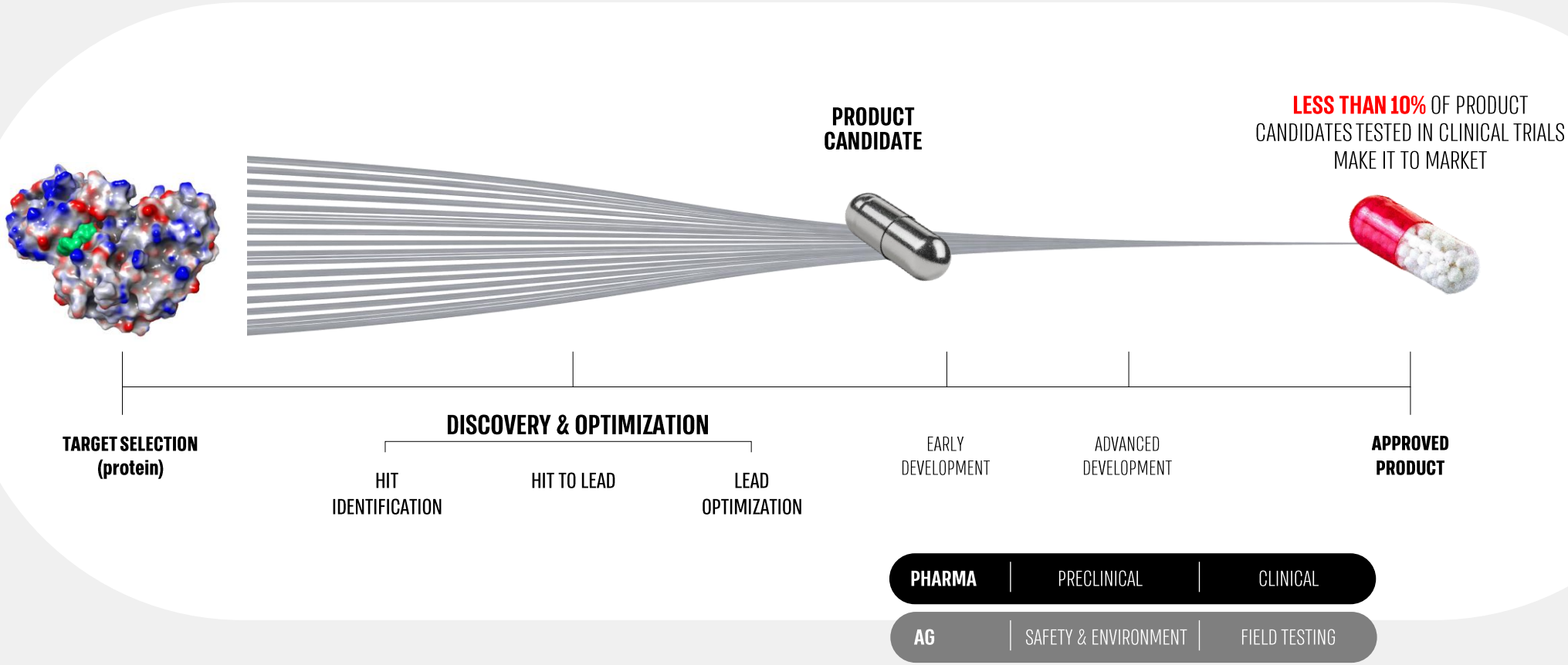
REVOLUTIONIZING AG

Proven strategic collaborations driving our ag-chem pipeline



THE DISCOVERY & OPTIMIZATION CHALLENGE

GENERATE THE RIGHT CANDIDATES TO REACH THE MARKET



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DIVERSE NOVEL CHEMICAL STRUCTURES & MULTI-PARAMETER **CHALLENGE**

The challenge - generate **diverse** small molecules with **novel** chemical structures that satisfy all **required parameters** defining the desired product, while proactively balancing multiple, often competing, criteria

CURRENT MAIN LIMITATIONS:

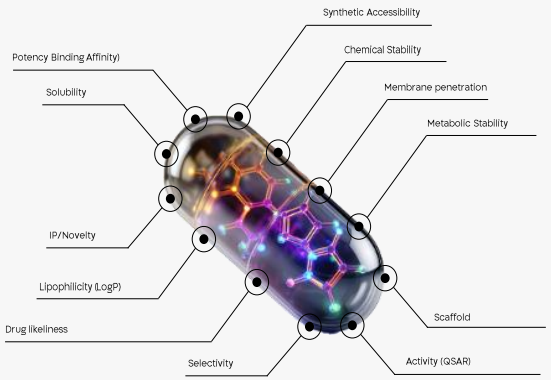
- Confined to a limited chemical space
- Lacks capability to perform multi-parameter optimization simultaneously



CHEMPASS AI ™

BREAKING CHEMICAL SPACE LIMITATION & MULTI-PARAMETER CHALLENGE

NOVEL PRODUCT CANDIDATE



NOVEL CHEMICAL STRUCTURE, DRUG-LIKE, SYNTHESIZABLE MOLECULES

Our AI engine generates novel compounds that are synthesizable and active, while accessing unexplored chemical space and creating new IP opportunities

MULTI-PARAMETER OPTIMIZATION

Multiple-parameters optimized to project-specific chemical, biological, and physical constraints, increasing probability of success

CHEMOTYPE DIVERSITY - DE-RISKING DOWNSTREAM DEVELOPMENT

A broad and diverse scope of development candidates, that meet the defined product specifications

CHEMPASS AI™ – FOUR STEPS TO SUCCESS

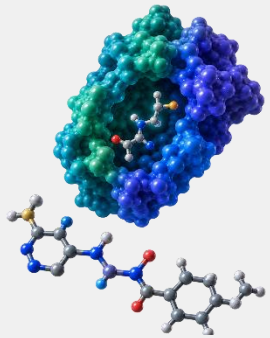
Step 0

AGENTIC BIOLOGICAL & CHEMICAL TARGET ANALYSIS

ABC MODULE™

BIOLOGICAL PROFILE

CHEMICAL PROFILE



Step 1

HIT SCREENING

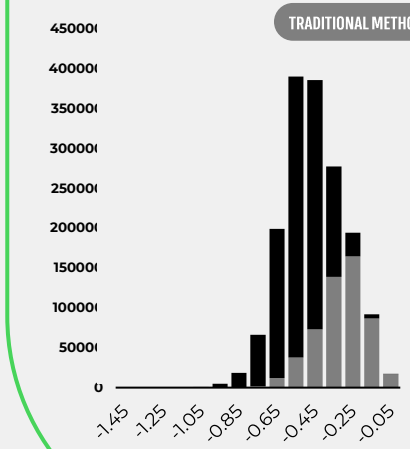
WITH *POINTHIT™*

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

VIRTUAL SCREEN RESULTS

POINTHIT

TRADITIONAL METHOD

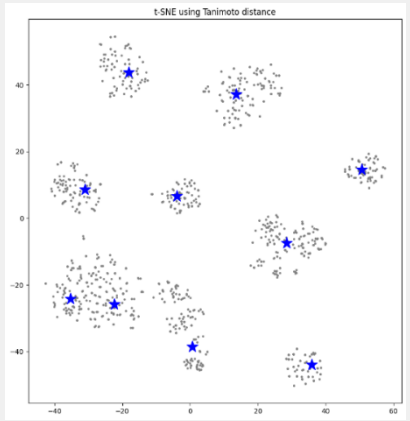


Step 2

HIT TO LEAD

WITH *ACTIVESEARCH™*

DMTA* coupled with upgraded analog search of ultra-large databases using proprietary algorithms

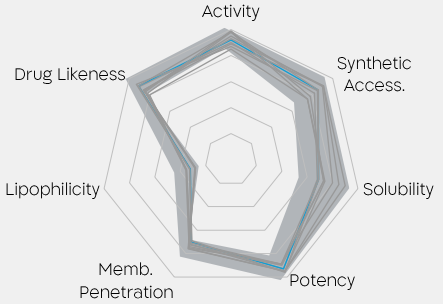


Step 3

LEAD OPTIMIZATION

WITH *LEADOP GPT™*

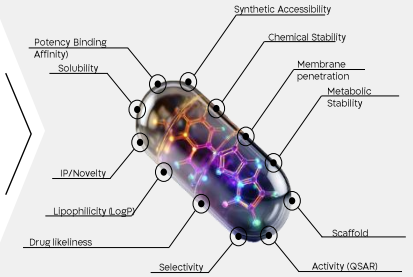
Simultaneous optimization of multiple parameters using generative AI



REACHED MULTI-PARAMETER OPTIMIZED nM ACTIVE NOVEL COMPOUNDS

RESULT

EVOGENE PRODUCT CANDIDATE



* **DMTA** in small-molecule drug development stands for Design–Make–Test–Analyze.

OUR COMPETITIVE ADVANTAGE

ABC module™ - AGENTIC BIOLOGICAL & CHEMICAL ANALYSIS

- **Biological Profile** - MOA evaluation, experimental insights, specificity profile, structure ensembles
- **Chemical Profile** - Ligand properties, diversity mapping, curated experimental activities, ML models

→ Discovery risk profile – Expert-vetted, data-backed target dossiers

POINTHIT™ & *ACTIVESEARCH*™ - INTELLIGENCE: UNIQUE DATASET CREATION

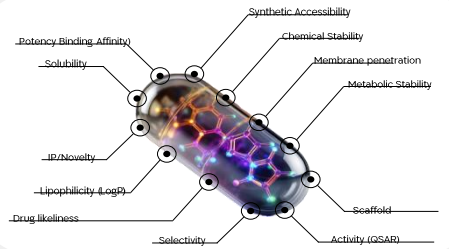
- Both *POINTHIT*™ & *ACTIVESEARCH*™ explore ultra-large vendor libraries ~ **110B molecules**
- *POINTHIT*™ utilizes virtual screening to generate a diverse range of chemotypes from the earliest stages of the discovery process
- *ACTIVESEARCH*™ is an analogue search-engine coupled with QSAR to optimize DMTA cycles

→ Deep understanding of the biology and chemistry underlying the target product

LEADOP GPT™ - THE MAGIC: NOVEL MOLECULE GENERATION

- In-house built AI engine trained on curated **38B molecules database** (Google Cloud collaboration #1)
- Generation of molecules that satisfy multiple project-specific parameters simultaneously (Google Cloud collaboration #2)
- Precision generation of novel bioactive molecules tailored to target product criteria, eliminating inefficient traditional filtering

→



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ALWAYS AT THE CUTTING EDGE OF TECHNOLOGY– LATEST ACHIEVEMENTS



AGENTS' INTEGRATION

"This expanded collaboration with Evogene demonstrates the power of integrating cutting-edge artificial intelligence into scientific research. By leveraging our technology to deploy advanced AI agents, we are enabling Evogene to automate and scale their complex discovery workflows. This foundation accelerates the speed and precision of identifying small molecules, further cementing ***Evogene's role as a leader in next-generation molecular design*** *for the pharmaceutical and agricultural industries"*

BOAZ MAOZ, MANAGING DIRECTOR, GOOGLE CLOUD ISRAEL

Google Cloud

EXPANDED CHEMPASS AI™ VIRTUAL LIBRARY BY 200% TO 110 BILLION UNIQUE, ENUMERATED, VENDOR-ACCESSIBLE COMPOUNDS

Enabling AI-driven exploration of broader chemical space for novel pharmaceutical and agrochemical candidates.

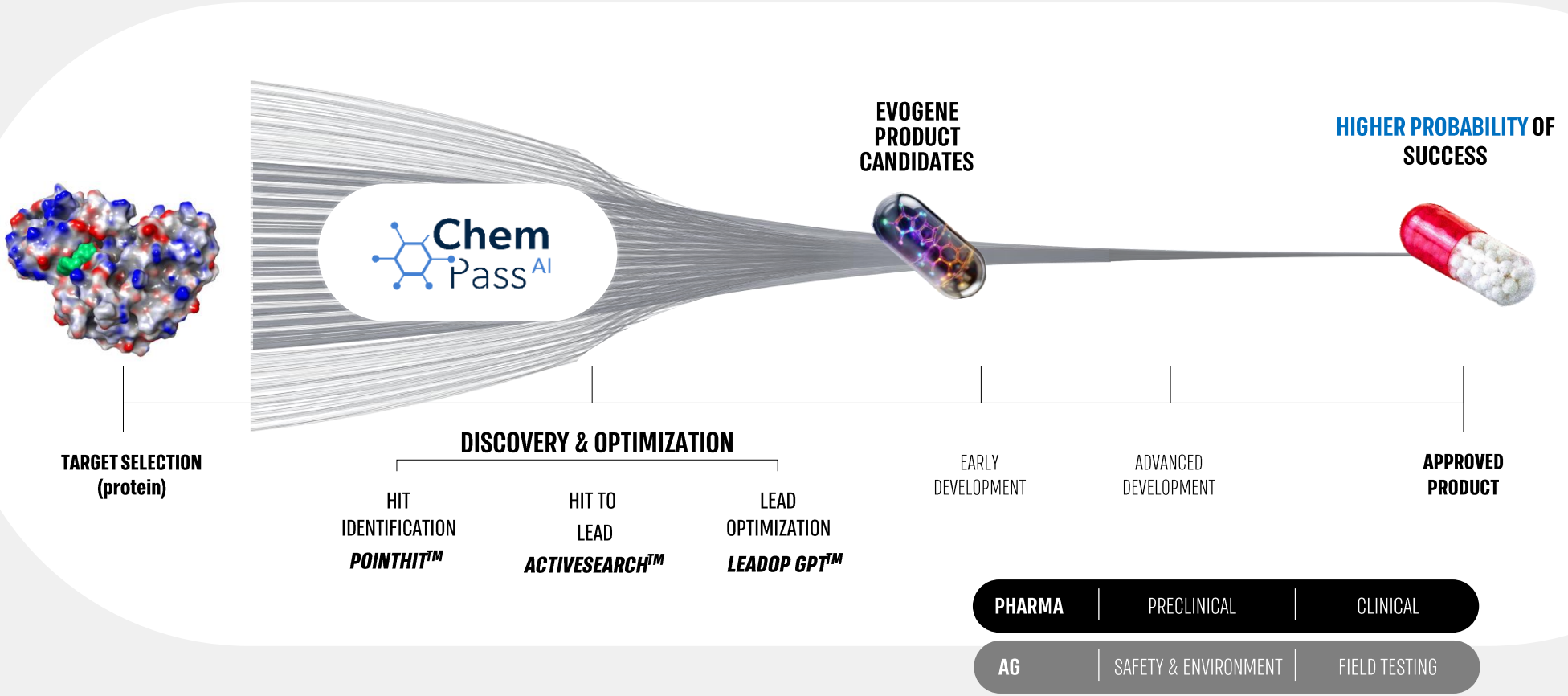




NOVEL AI MODEL FOR PREDICTING ANTIFUNGAL POTENCY

Enables ChemPass AI for Ag™ to identify and prioritize antifungal molecules with a higher probability of biological success at early discovery stages.

CHEMPASS AI™ - GENERATES CANDIDATES FOR COMMERCIAL SUCCESS



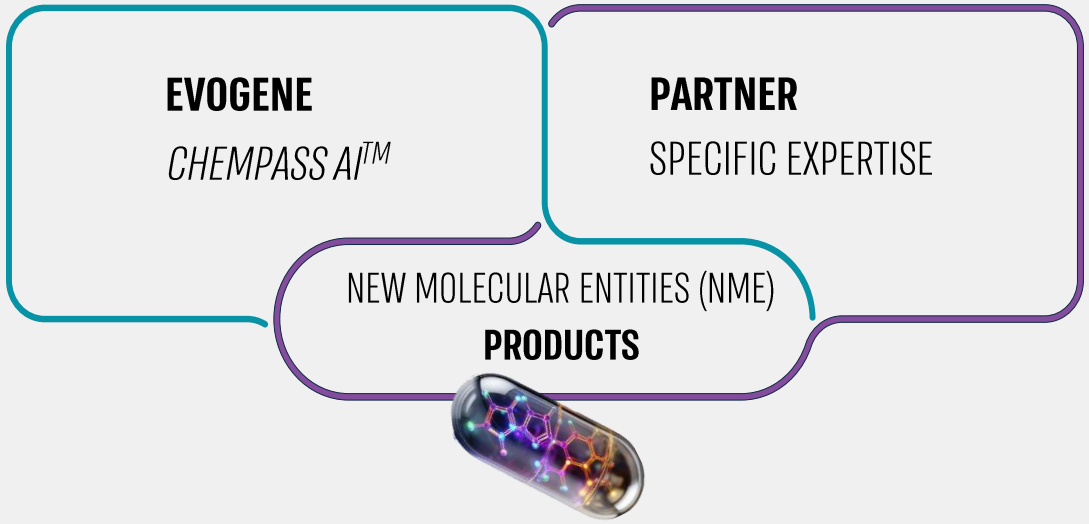
BUSINESS STRATEGY

CO-DEVELOPMENT - CAPTURE THE VALUE OF *CHEMPASS AI™*

Unlock the full potential of ChemPass AI™ through strategic collaborative partnerships, accelerating innovation in small-molecule drug and agrochemical development

PARTNERING WITH PHARMA, AG-CHEMICAL & BIOTECH COMPANIES

COMPANIES that complement our capabilities, enabling groundbreaking innovations that benefit both parties



MAXIMUM POTENTIAL, MINIMUM RISK

CHEMPASS AI™ WORKFLOW

CHEMPASS AI™

ABC module™
Preprocessing and target modeling

PointHit™
Ultra large DB virtual screening

ActiveSearch™
ML enabled DMTA

LeadOpGPT™
Constraint driven generation

DEVELOPMENT STEPS

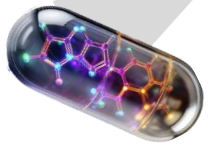
0 – TARGET PREPROCESSING

1 - HIT SCREENING

2 - HIT-TO-LEAD

3 - LEAD OPTIMIZATION

PROPRIETARY PRODUCT CANDIDATES



PARTNER / INTERNAL PIPELINE

TPP definition

Experimental validation

Experimental validation

Custom synthesis and testing

HARNESSING THE POWER OF CHEMPASS AI FOR REAL-WORLD INNOVATION

PHARMA DIVISION – Drugs

systasy	Neutrophil-Derived Inflammatory Diseases
UNRAVEL BIOSCIENCES	Demyelination Disorders
eLeo	Cardiovascular Diseases
QUT Queensland University of Technology	Therapy Resistant Lung Cancer
TEL AVIV UNIVERSITY אוניברסיטת תל אביב	Metabolic Disease
UNDISCLOSED	Oncology Disease
INTERNAL PIPELINE	Acute GVHD

ChemPass AI



AG DIVISION* – Ag-Chemicals

CORTEVA™ agriscience	Herbicides
INTERNAL PIPELINE	Wheat leaf Blotch (Two targets)
INTERNAL PIPELINE	Undisclosed

AG DIVISION* – Operations in this field are conducted through our subsidiary, AgPlenus.

OUR STORY

PIONEERING IN PHARMA

Growing number of collaborations for a diverse pipeline of drug candidates



GEN AI ENGINE

ChemPass AI™ - computational engine for the generation & optimization of small molecules



REVOLUTIONIZING AG

Proven strategic collaborations driving our ag-chem pipeline



GROWING OPPORTUNITY IN AI-DRUG DISCOVERY





SMALL MOLECULES

Account for
58%[1]
of total pharmaceutical market ($1,344B)

AI-based candidates in pipeline
>60[2]
150% CAGR in last 3 years

Discovery market expected to reach
~$190B[3]
by 2034

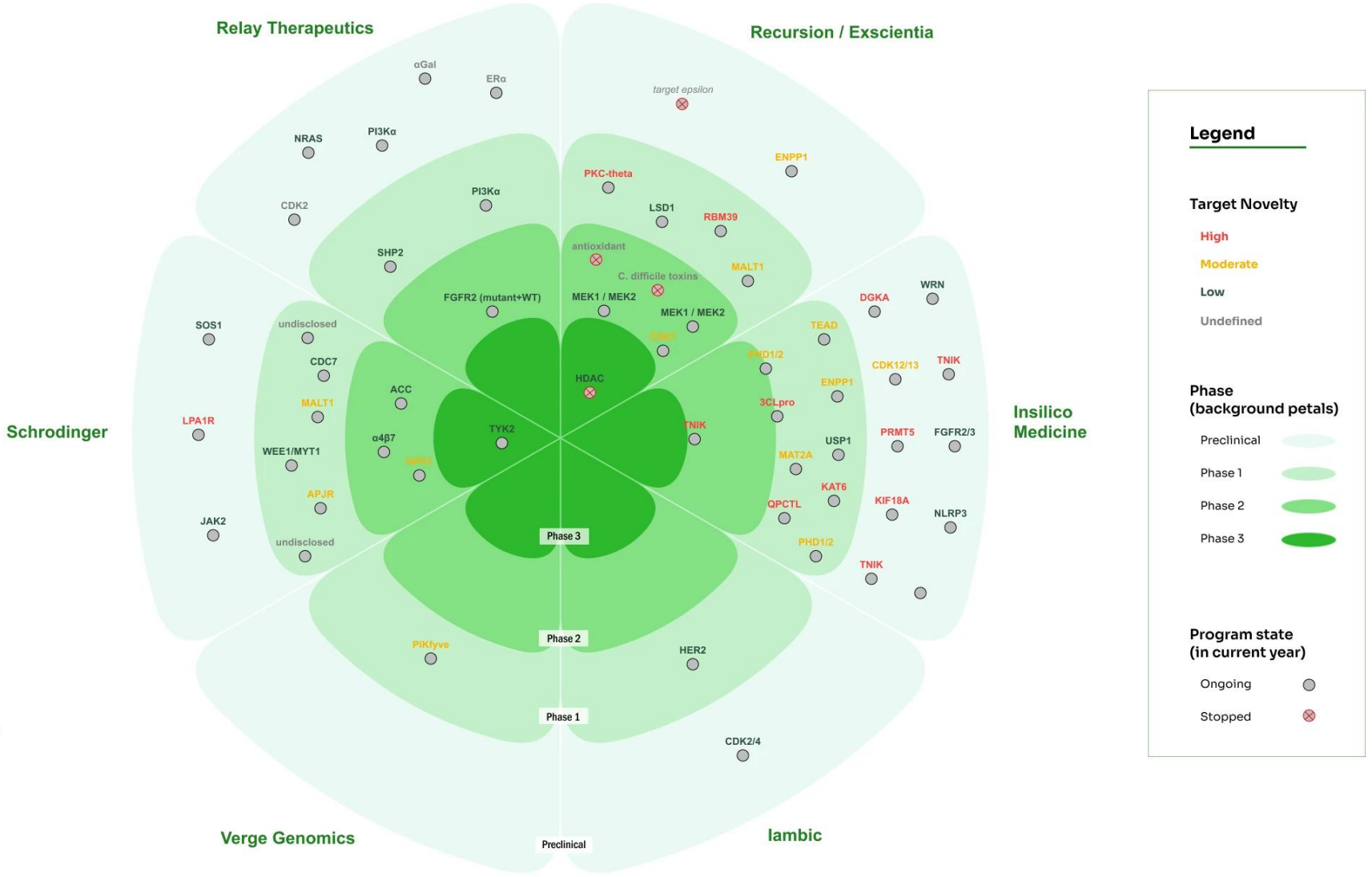



1) DCAT Value Chain Insights 2) Science Direct 3) Precedence Research

AI-FIRST COMPOUNDS UNDER DEVELOPMENT

The indicated data are for March 2025 *

Data includes both in-house and partner programs, data is NOT exhaustive, it reflects only information disclosed by companies on their websites.



Legend

Target Novelty

- High
- Moderate
- Low
- Undefined

Phase (background petals)

- Preclinical
- Phase 1
- Phase 2
- Phase 3

Program state (in current year)

- Ongoing
- Stopped

https://www.biopharmatrend.com/

https://www.TechLifeSci.com

@BiopharmaTrend

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POTENTIAL COLLABORATORS & BUSINESS DEVELOPMENT STRATEGY

POTENTIAL PARTNERS	UNMET NEEDS	COMMON COLLABORATION PROFILE	TIMELINE
ACADEMIA/ SMALL BIOTECH	1. Rapid computational generation of molecules with high probability of success for novel targets 2. Composition of matter patents	A strategic partnership to co-develop a novel drug asset, generate shared IP and/or commercialization rights while accelerating the path to clinical development	Initiated end of 2025
MID-BIG SIZE BIOTECH/ MID SIZE PHARMA	1. Rapid computational generation of molecules with high probability of success for novel targets 2. Computational generation of novel chemotypes with improved patent positions and introduction of broad chemical diversity	Joint discovery and optimization of novel drug assets. Evogene will receive R&D and milestone-based payments, and royalties	Mid term (2027+)
GLOBAL PHARMA	1. Generation of novel chemotypes with improved patent positions and introduction of broad chemical diversity 2. Computational solutions for non-trivial targets	1. Joint discovery and optimization of novel drug assets. Evogene will receive R&D and milestone-based payments, and royalties 2. Evogene delivers a dedicated computational technology solution for a specific R&D challenge in exchange for upfront, R&D and milestone-based payments	Long term (2028+)

DIVERSIFIED DRUG DISCOVERY PIPELINE – (INITIATED Q4/25)

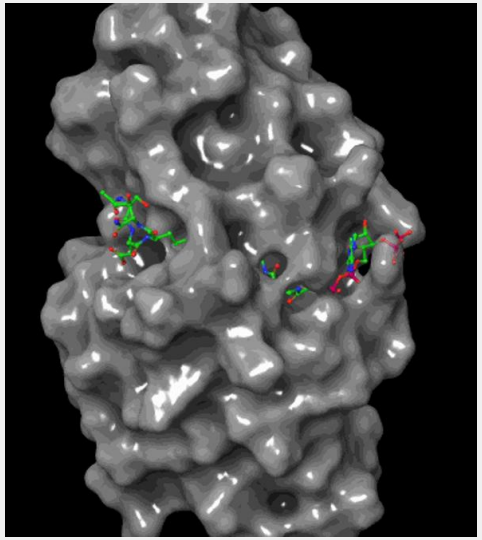
	INDICATION	PROGRAM	PREPROCESSING	HIT ID	HIT-TO-LEAD	LEAD OPTIMIZATION	PRE-CLINICAL	IND	PARTNER
	COLLABORATIONS								
1	Oncology	EVG-O311	→	→	→				Undisclosed
2	Metabolism*	EVG-M410	→	→	→				TEL AVIV UNIVERSITY
3	Immunology	EVG-I110	→	→					systasy
4	Neurology	EVG-N210	→						UNRAVEL BIOSCIENCES
5	Oncology	EVG-O310	→	→					QUT Queensland University of Technology
6	Cardiology	EVG-C610	→						eleo
	INTERNAL PIPELINE								
1	Immunology	EVG-R510	→	→	→	→			evogene

* Non-protein target

COLLABORATION WITH A LEADING ACADEMIC INSTITUTE (UNDISCLOSED)

NOVEL THERAPIES FOR BREAST CANCER TREATMENT

- Target: novel key mechanism linked to cancer cell survival, migration and therapy resistance
- Global breast cancer therapy market is estimated at $30B annually[1], with aggressive forms representing 10-15% of the cases[2], with an estimated market of $5B[3]
- Combines *ChemPass AI™* with expertise in spatial genomics and genome stability
- Designed to generate novel small-molecule candidates for aggressive form of breast cancer



BINDING SITE AND LIGAND OF TARGET

1 https://www.polarismarketresearch.com/industry-analysis/breast-cancer-therapy-market

2 /https://www.nationalbreastcancer.org/triple-negative-breast-cancer

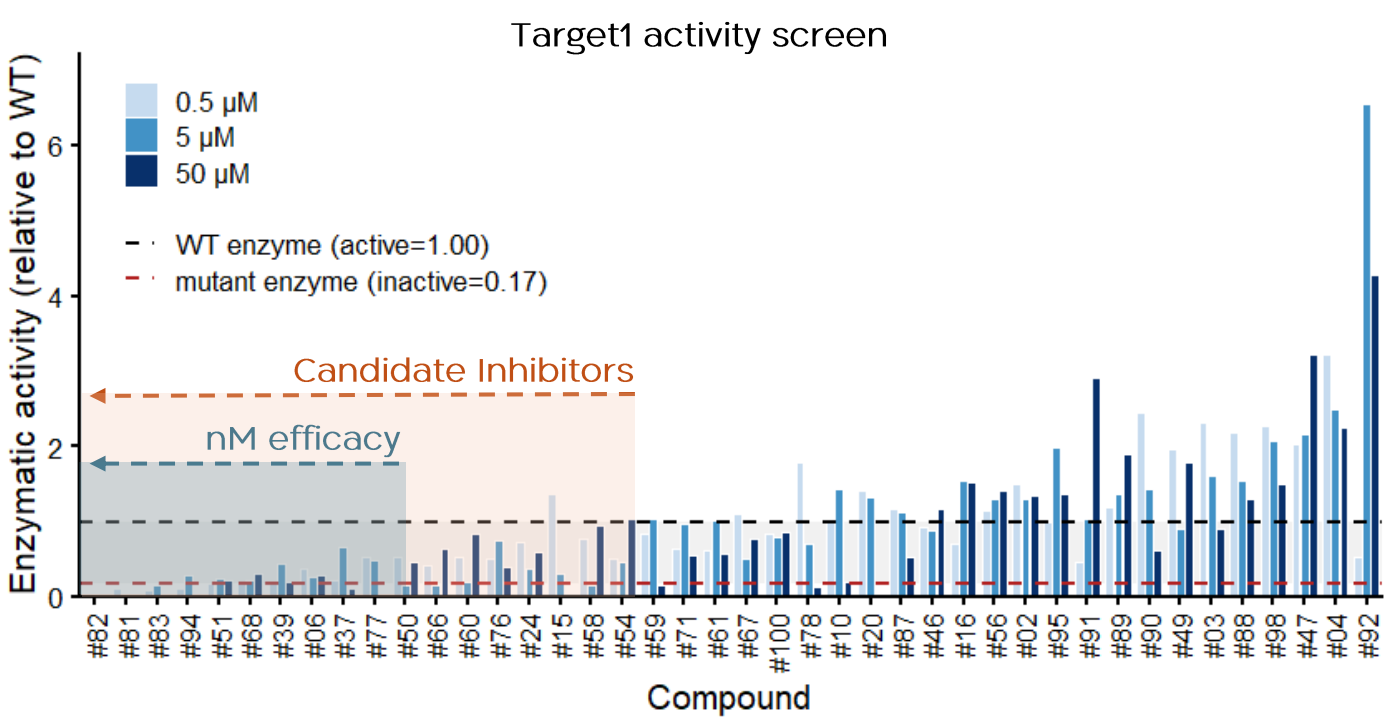
3 https://www.delveinsight.com/report-store/triple-negative-breast-cancer-tnbc-market

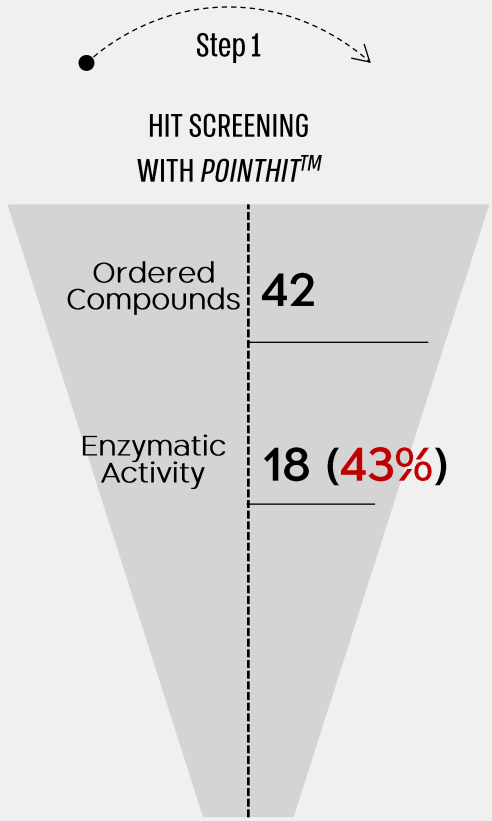
POINTHIT™ - SUPERIOR HIT RATES OF HIGHLY POTENT MOLECULES

42 molecules identified with outstanding results*

- 43% of tested considered candidate inhibitors
- 19% of tested compounds have nM efficacy

"We used to screen thousands of compounds to get hits, with ChemPass AI this is not required. Out of 42 compounds, 18 (43%) are inhibitors, and 8 (19%) are potential candidates." PI





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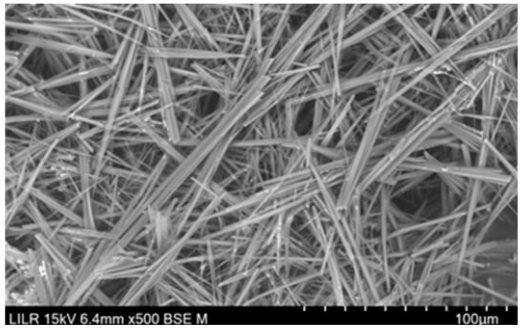
* Intermediate analysis

COLLABORATION WITH PROF. EHUD GAZIT, TAU, TEL-AVIV, ISRAEL

NOVEL THERAPEUTIC MODALITY FOR METABOLIC DISEASES

- Target: molecular self-assembly metabolites that underlie metabolic conditions
- Addressable Gout therapeutics market is evaluated at ~$3B*
- Combines *ChemPass AI™* with unique biological research in molecular self-assembly biology
- Creates opportunities for novel therapeutics addressing the cause of disease rather than symptomatic treatment

"We are excited to join forces with Evogene in this groundbreaking endeavor. By integrating our fundamental understanding of molecular self-assembly with Evogene's cutting-edge AI-driven drug design platform, we have a unique opportunity to develop novel therapeutics that specifically target these pathological processes and ultimately improve treatment for patients."



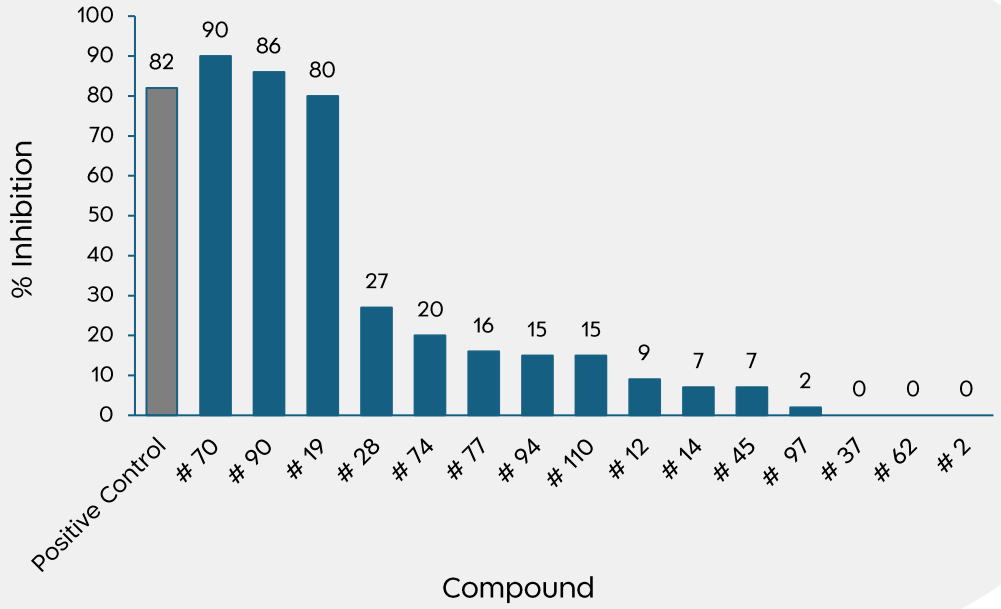
SCANNING ELECTRON MICROSCOPY OF CRYSTALS FORMED BY THE SELF-ASSEMBLY OF A METABOLITE

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

* https://www.grandviewresearch.com/industry-analysis/gout-therapeutics-market

COLLABORATION WITH PROF. EHUD GAZIT, TAU, TEL-AVIV, ISRAEL

NOVEL THERAPEUTIC MODALITY FOR METABOLIC DISEASES – *CHEMPASS AI™* RESULTS



INTERMEDIATE ANALYSIS OF INITIAL 15 MOLECULES

- 33% of tested compounds reach activity threshold
- 2 molecules outperformed positive control

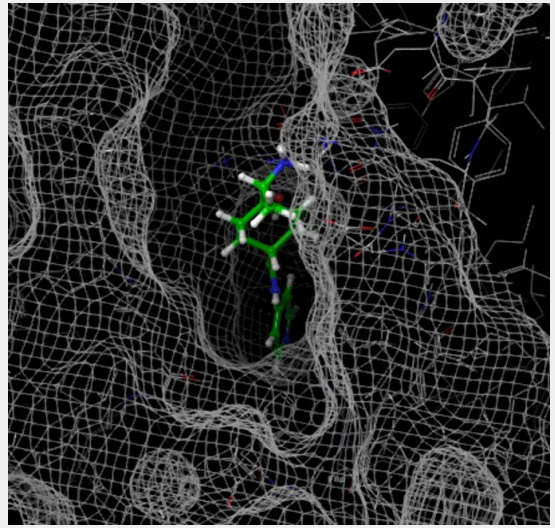
NEXT STEP

- Ongoing testing of additional molecules for hit identification

INTERNALLY DEVELOPED DRUG DISCOVERY PROGRAM

NOVEL SMALL-MOLECULE THERAPIES FOR STEROID-REFRACTORY ACUTE GRAFT-VERSUS-HOST DISEASE (aGVHD)

- aGVHD is a life-threatening complication of hematopoietic stem cell transplantation, affecting approximately 30%–40% of transplant recipients
- Global GVHD treatment market is estimated at $2B annually, with steroid-refractory aGVHD form estimated market of $0.5B with a strong clinical unmet need
- Target: key cellular protein expressed in a wide range of cell types involved in cell motility, structure and immune regulation
- Combines *ChemPass AI*™ novel molecule generation capabilities with program guidance of world-renowned experts in the field



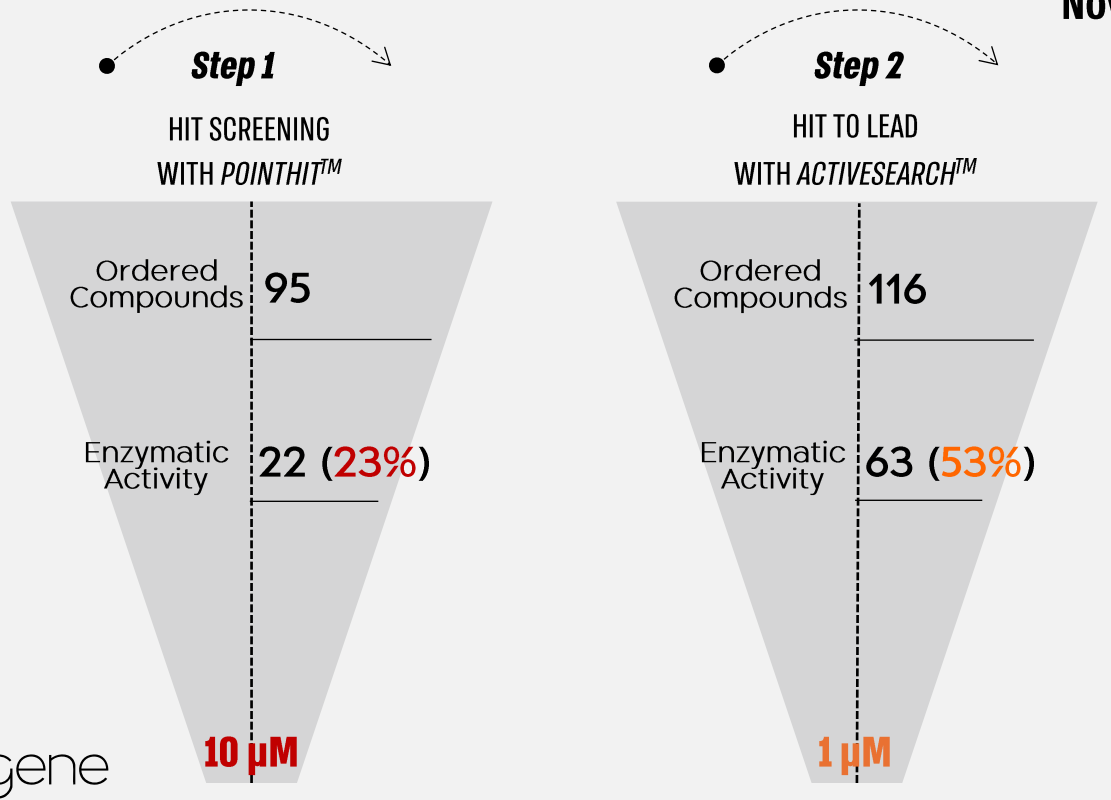
STRUCTURE OF BINDING SITE AND PUTATIVE LIGAND

INTERNALLY DEVELOPED DRUG DISCOVERY PROGRAM FOR aGVHD

EXPERIMENTAL RESULTS

Hit ID - Chemical space differentiation with *PointHit™ (Step1)*

Identified active candidates represent different chemical space from the known inhibitors

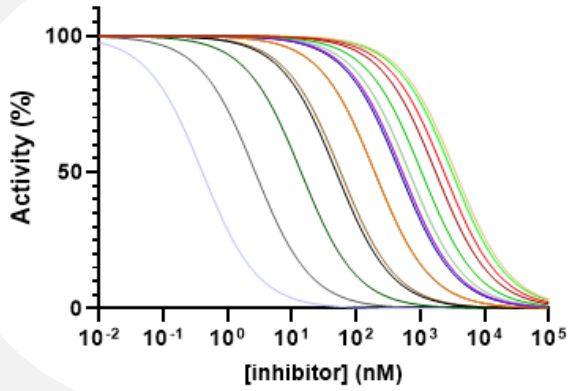


Efficient hit expansion through *ActiveSearch™ (Step2)*

Lead candidates show better-than-expected efficiency

Novel molecule generation using *LeadOpGPT™ (Step3)* – In progress

IC_{50} of Top 5 molecules from 2 *ActiveSearch™* iterations



Top 5 molecules

Compound	IC50(nM)
CPV110	0.4
CPV128	2.7
CPV161	4.1
CPV138	4.9
CPV205	7.4

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PIONEERING IN PHARMA

Growing number of collaborations for diverse drug targets



GEN AI ENGINE

ChemPass AI™ - computational engine for the generation & optimization of small molecules



REVOLUTIONIZING AG

Proven strategic collaborations driving our ag-chem pipeline



agPlenus
EVOGENE'S SUBSIDIARY

~$88B GROWING MARKET
WITH PLENTY OF ROOM FOR INNOVATION



UNMET NEEDS

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



$47.3B
BROAD SPECTRUM HERBICIDES[1]

$20.08B
FUNGICIDES FOR MAJOR DISEASES[2]

$24.3B
BROAD SPECTRUM INSECTICIDES[3]

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

LEADING CROP PROTECTION COMPANIES

BASF
BAYER
CORTEVA agriscience
FMC
syngenta
ADAMA
Gowan
nufarm
UPL OpenAg
KUREHA
NIPPON SODA CO.,LTD.

POTENTIAL DISCOVERY AND OUTLICENSE PARTNERS

agPlenus
EVOGENE'S SUBSIDIARY

CURRENT CROP PROTECTION PIPELINE

	PROGRAM	TARGET	PREPROCESSING	HIT ID	HIT-TO-LEAD	LEAD OPTIMIZATION	SAFETY & ENVIRONMENTAL	FIELD TESTING	PARTNER
	COLLABORATIONS								
1	Herbicide	APCO-12	Stage confidential						CORTEVA agriscience
	INTERNAL PIPELINE								
1	Wheat leaf blotch	APTF1	→	→	→	→			agPlenus
2	Wheat leaf blotch	APTF4	→	→	→	→			agPlenus
3	Fungicide/ Undisclosed	APTF9	→						agPlenus

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
- EU market alone >$1.2B annually
- Widespread resistance to current top products ('Strobilurins') with 2025 sales of $4.76B[1]

APTF-1 PRESENTS STRONG POTENTIAL FOR REAL-WORLD INNOVATION



DETACHED LEAF ASSAY

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

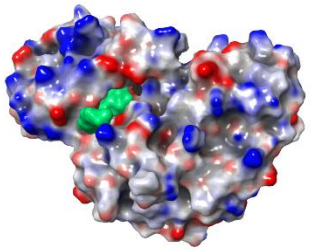
1) Global Growth Insights

agPlenus
EVOGENE'S SUBSIDIARY

END-TO-END PROCESS – NOVEL, HIGHLY POTENT, OPTIMIZED MOLECULES

TARGET PROTEIN

New MOA – no available crystallographic structure with limited computational data



Step 1

HIT SCREENING

WITH *POINTHIT™*

Ordered Compounds	440
Enzymatic Activity	11 (2.5%)
In Vivo Activity	7(1.6%)

Step 2

HIT TO LEAD

WITH *ACTIVESEARCH™*

Ordered Compounds	164
Enzymatic Activity	39 (23%)
In Vivo Activity	9 (5%)

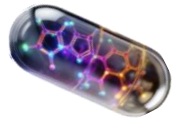
Step 3

LEAD OPTIMIZATION

WITH *LEADOP GPT™*

Ordered Compounds	61
Enzymatic Activity	56 (92%)
In Vivo Activity	33 (54%)

PROPRIETARY PRODUCT CANDIDATE



EVOGENE – LOOKING FORWARD

PHARMA DIVISION – DRUGS

- Progress in existing pipeline
- New collaborations with biotech companies and academic institutions
- Building relationships with pharmaceutical companies
- Evaluation of projects for expanding internal pipeline

ChemPass AI



AG DIVISION* – AG-CHEMICALS

- Progress in existing pipeline
- New collaborations with ag-chem companies
- Evaluation of projects for expanding internal pipeline

ADDITIONAL TECH COLLABORATIONS TO MAINTAIN OUR COMPETITIVE ADVANTAGE

AG DIVISION* – Operations in this field are conducted through our subsidiary, AgPlenus.

ChemPass AI

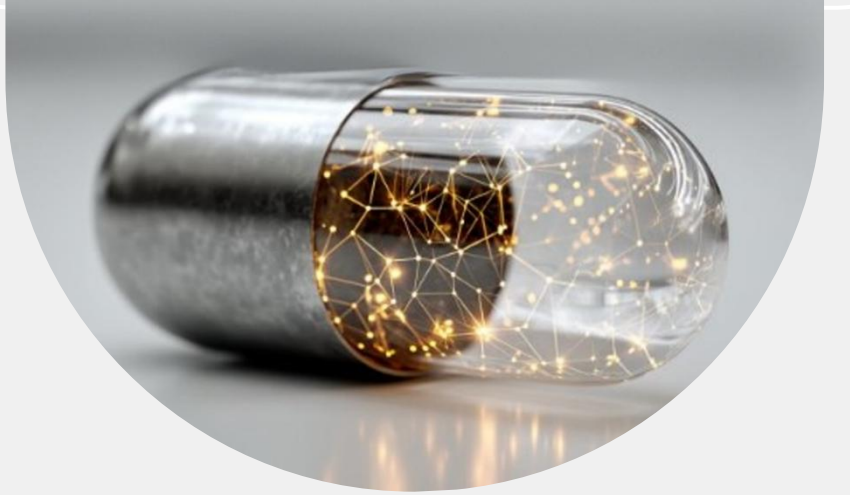
NOVEL, DRUG-LIKE, SYNTHESIZABLE MOLECULES

MULTI-PARAMETER OPTIMIZATION

DE-RISKING DOWNSTREAM DEVELOPMENT

We generate highly potent and novel small molecules, optimized across multiple-parameters, for the pharmaceutical and ag-chemical industries

evogene
Real-world innovation





PIONEERING IN PHARMA
Growing number of collaborations addressing diverse drug targets for the benefit of human health



REVOLUTIONIZING AG
Proven impact in Agriculture. Computational chemistry drives real-world agricultural impact

GENERATING REAL-WORLD INNOVATION

evOgene



Creating

REAL-WORLD INNOVATION

for a better future