



MeNow



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**THE ACTIVE INGREDIENTS REVOLUTION:
HOW ARTIFICIAL INTELLIGENCE IS SHAPING
THE FUTURE OF COSMETICS**

Dr. Hilla Ben-Hamo Arbel

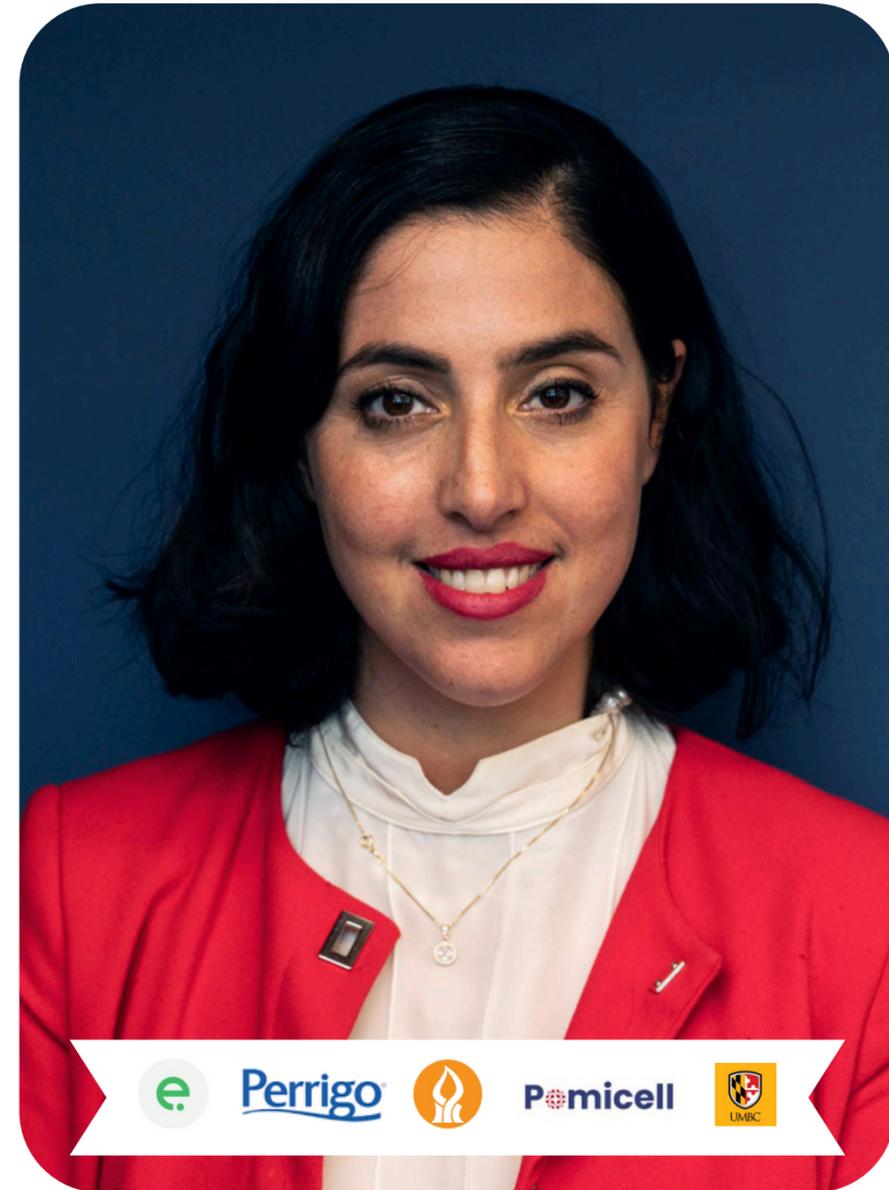
March 2025

ABOUT ME

Dr. Hilla Ben-Hamo Arbel

CEO & CO-FOUNDER @MENOW

- 10+ Years of Experience in Business Development & Sales in AI-Based Startups
- Signed sales agreements in 17 countries, including top-tier companies
- PhD in Biotechnology Engineering – Bridging Science and Innovation



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**Billions of \$\$\$ are
poured into the
search for the next
breakthrough star
ingredient**



NATURE- BIODIVERSITY

Nature's biodiversity holds immense potential for revolutionary and innovative advancements in the functional ingredients industry.

Yet, less than 1% of natural molecules have been characterized, leaving the vast majority of nature's possibilities untapped.



Less than 1% of Natural Molecules Have Been Characterized

**The vast majority of nature's potential
remains unexplored**

NATURAL PRODUCT DEVELOPMENT : THE HIDDEN CHALLENGES

>900

Of tests, including *in-vitro* & **animal testing**, safety and efficacy validation, and clinical trials.

3-5 y

Average time to develop new natural products

70%

R&D projects
FAILURE RATE

*Cosmetics, food additives and functional ingredients

Haematococcus pluvialis

Scientific Name:

Haematococcus pluvialis

New BioActives identified: 21



AI SCREENING OF NATURAL COMPOUNDS

Our A.I. system has mapped:

-  **over 60,000** organisms
-  **over 500,000** natural compounds

99% of the data consists of **unique AI-driven predictions**



**(ONE OF) THE FIRST AI-DEVELOPED
COSMETIC PRODUCTS**

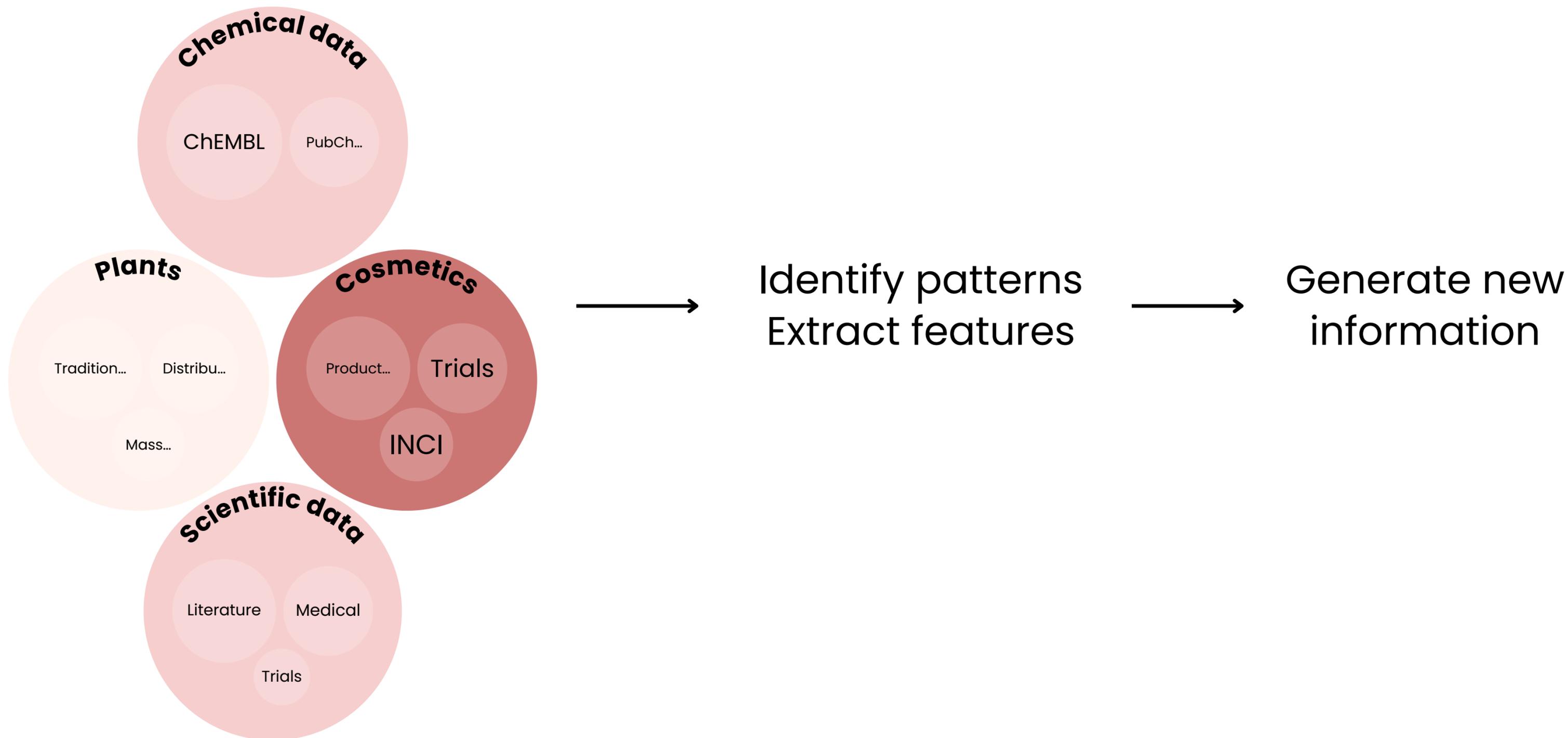
les bois

AI-Developed Serum

Validated by clinical trials



AI IN COSMETICS



PATENT-PENDING TECHNOLOGY : AI-BASED PLATFORM FOR MOLECULAR SCORING

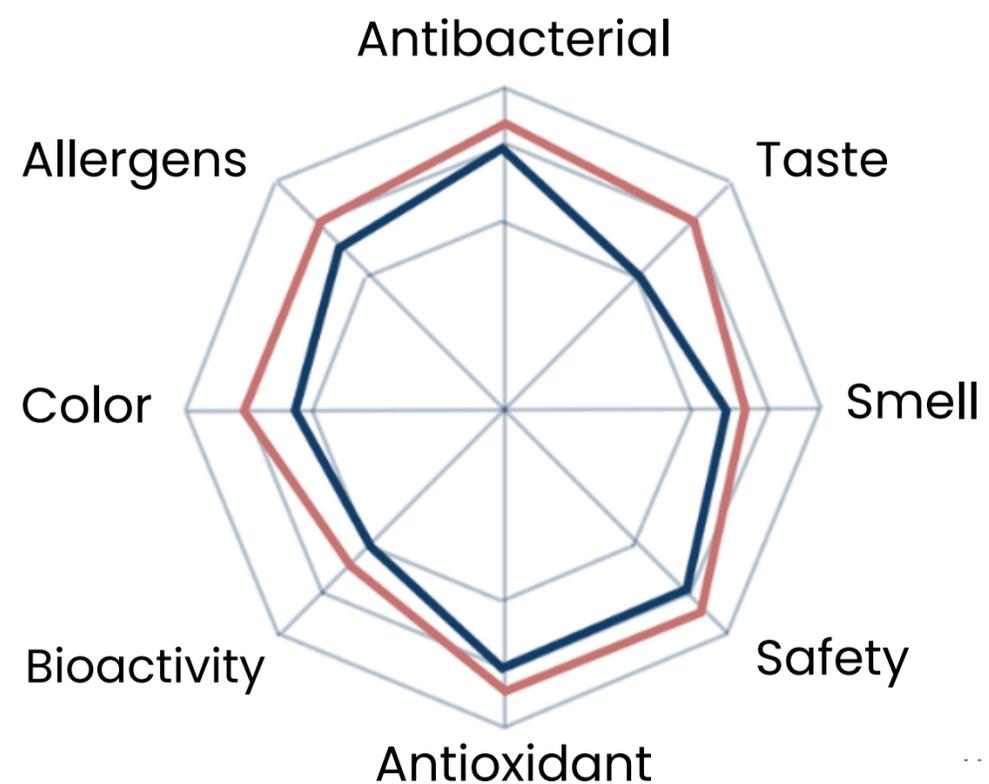
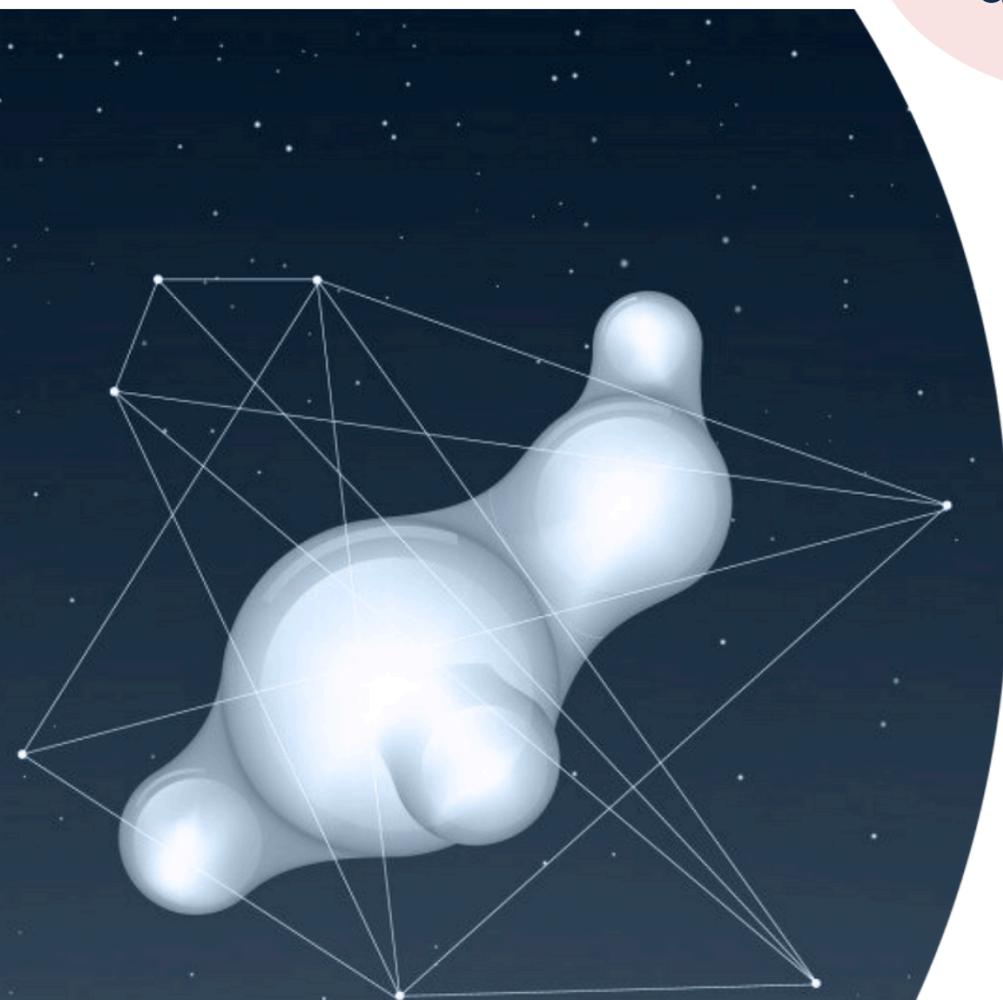
3D molecular reconstruction

Sensory and biological
predictions

Synergy prediction

Deep QSAR
algorithm

Virtual Tissue
Model



WHY SYNERGY IS CRUCIAL WHEN FORMULATING ?



Get higher efficacy than additive: super-star complex

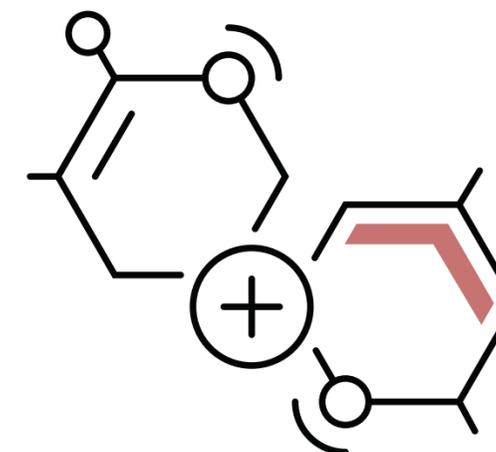
$$1 + 1 = 3$$



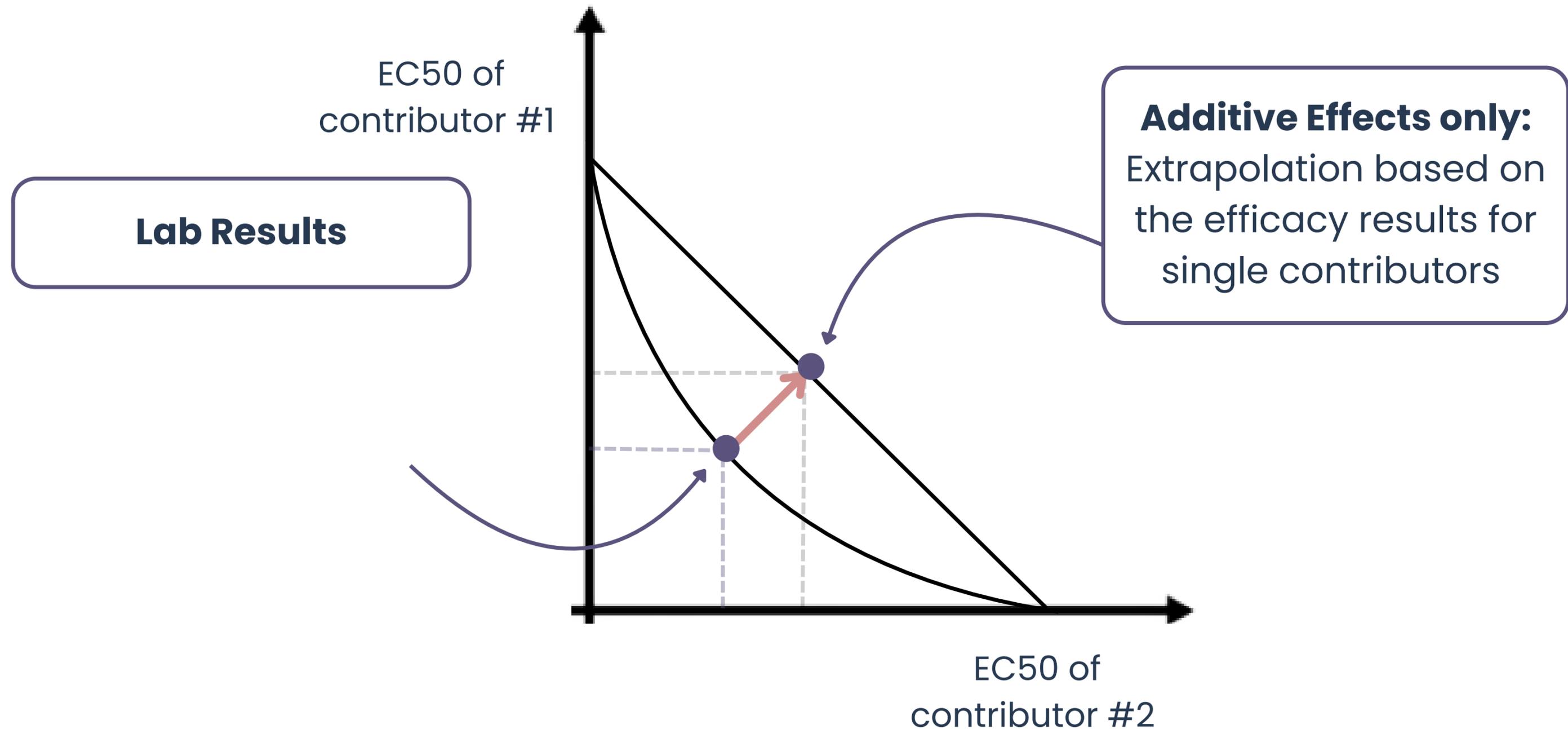
Use a lower concentration: less side effects



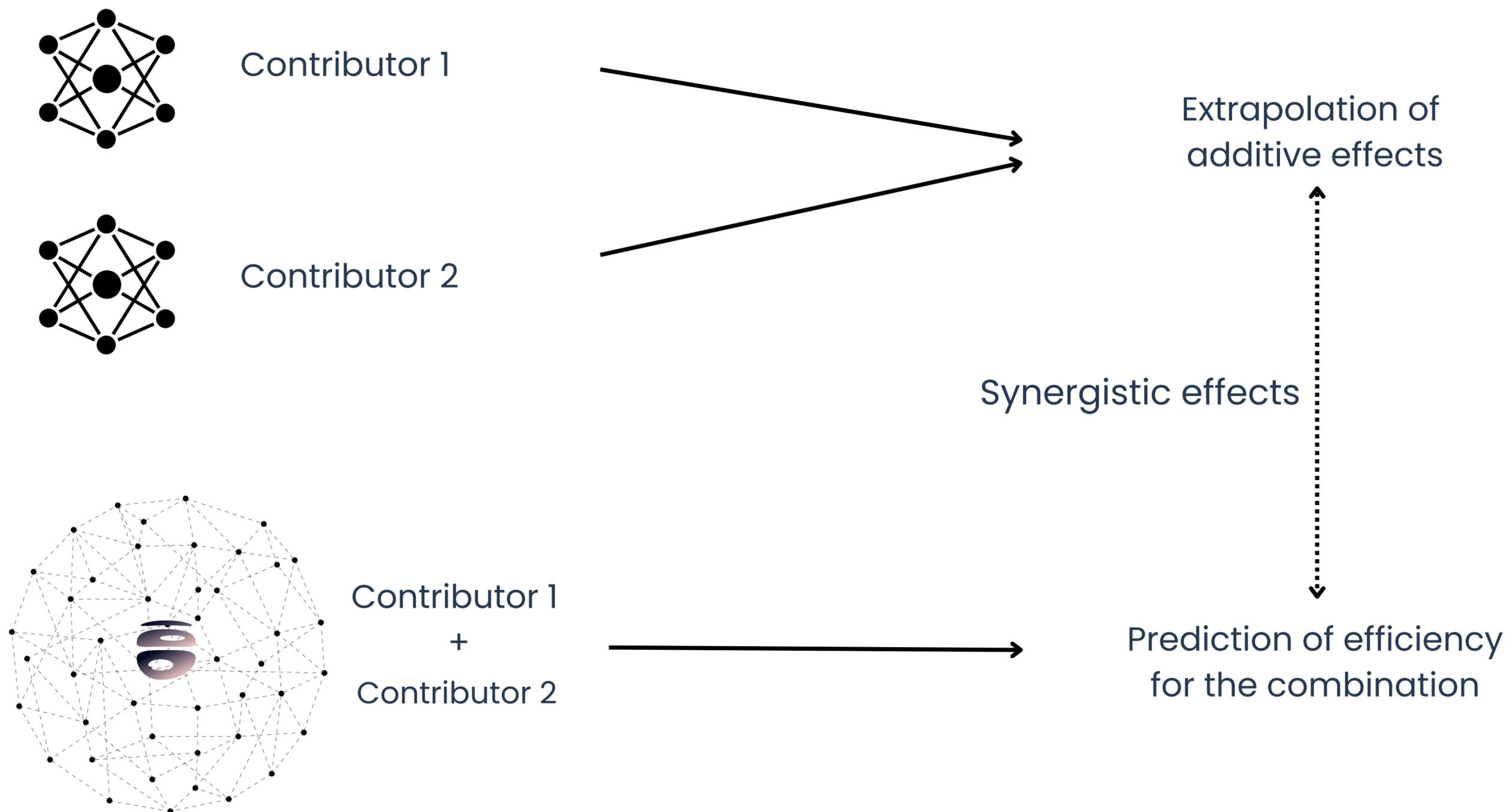
Crucial for patent applications



IN VITRO COMPUTATION: AI PREDICTIONS OF SYNERGISTIC EFFECTS

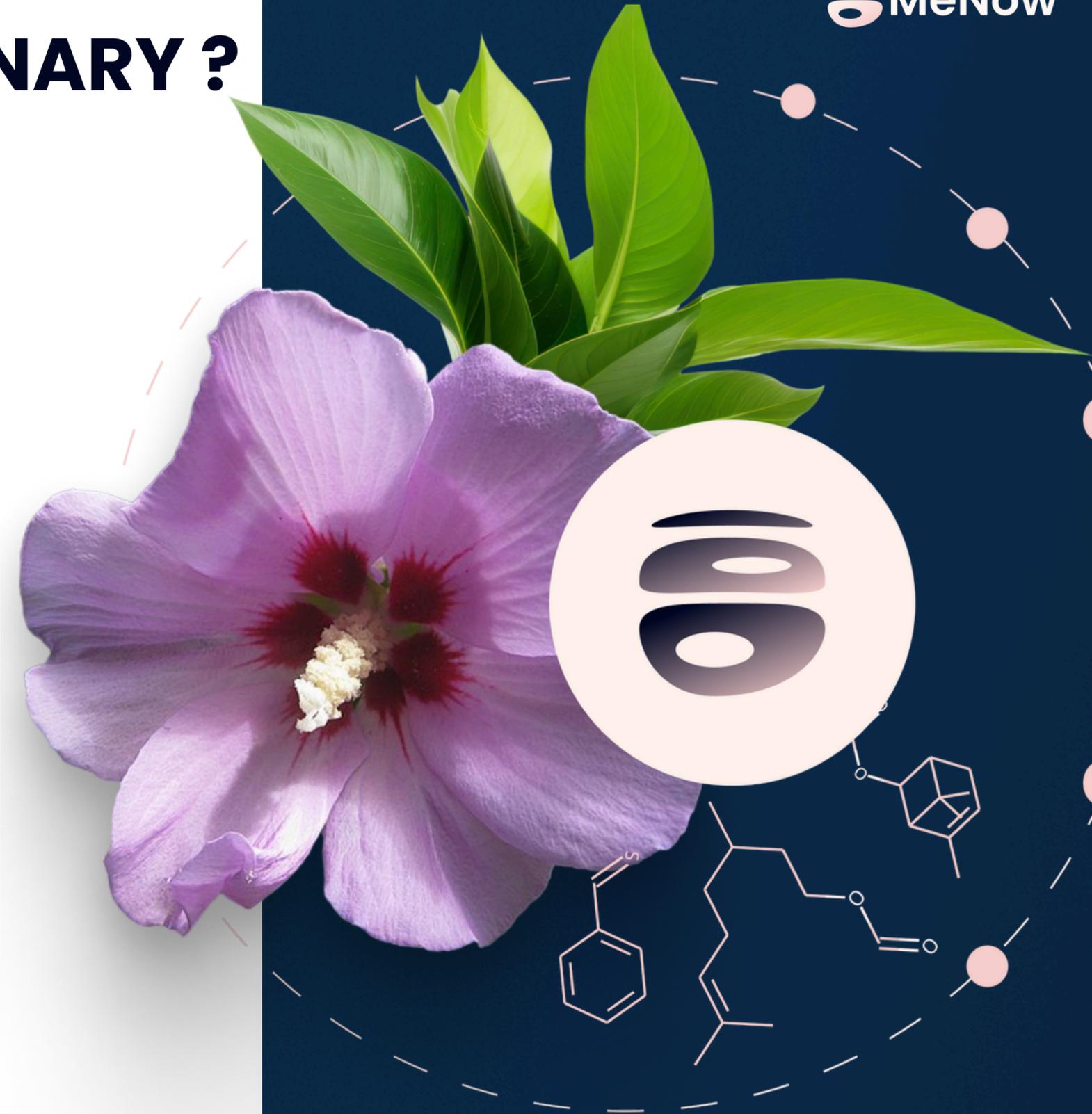


IN SILICO COMPUTATION: AI PREDICTIONS OF SYNERGISTIC EFFECTS



HOW WILL THIS BE REVOLUTIONARY ?

- **MeNow AI:**
Unlocking 25x More New Ingredients
- Accelerate innovation
- Predict synergistic and antagonistic interactions



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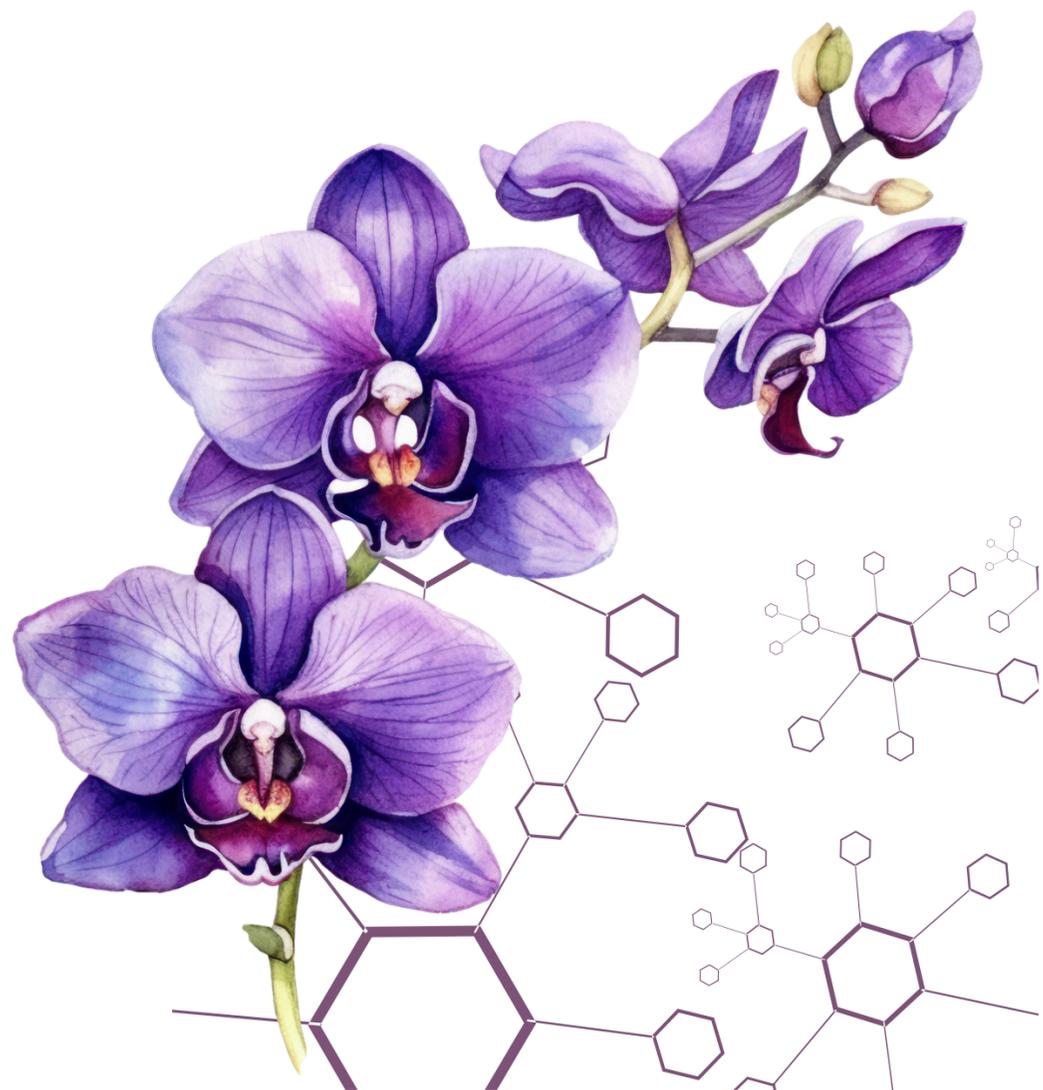
Working with MeNow has **significantly added value to our product development processes**. Using their AI, they quickly and efficiently delivered unique plant-based bioactives and synergistic plant combinations not documented elsewhere, notably accelerating our research.

Dr Laurence Du-Thumm

Global Senior Director, External
Technology Innovation R&D



SELECTING THE BEST EXTRACTION METHOD USING AI



Identify the most relevant molecules



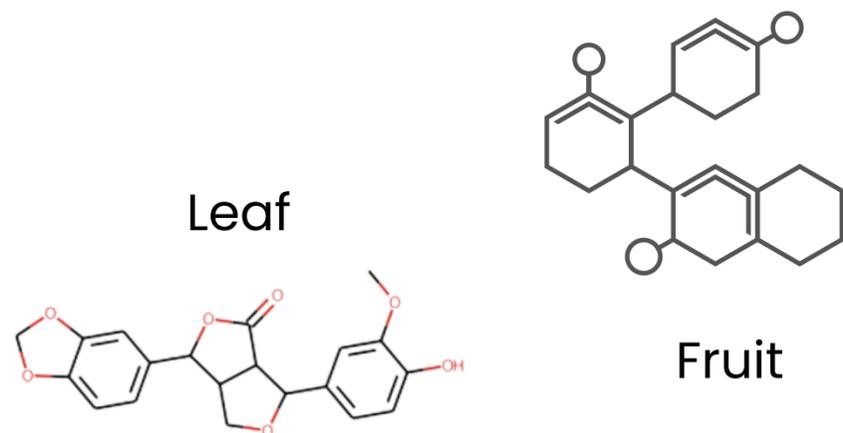
Explore internal synergies



Predict the molecular composition according to the extraction method and part of plants

CHALLENGE: MISSING INFORMATION ON PART OF PLANTS

Molecular composition of the whole plant



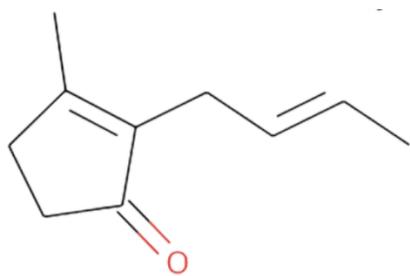
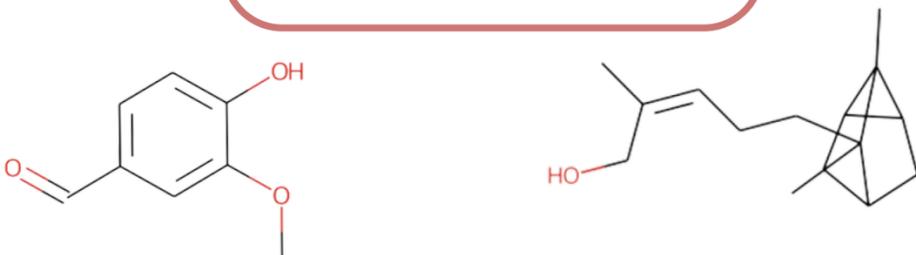
Experimental Data

AI predictor

- 3D reconstruction
- Fingerprints extraction
- Deep neuronal networks ML

Reconstructing where each molecule is found

Prediction for other parts



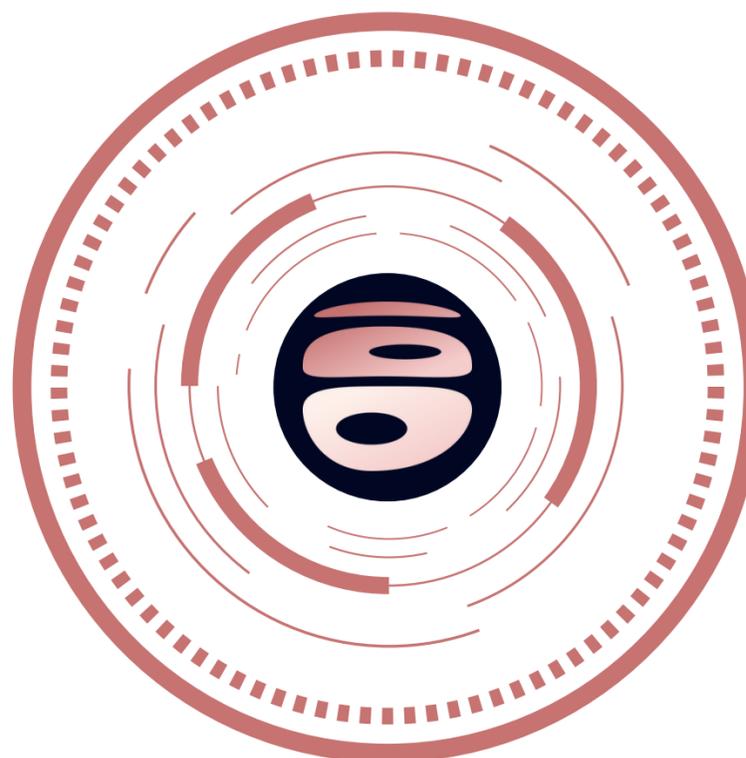
Molecular composition for one part

PREDICTION OF PART OF PLANTS AND SUSTAINABILITY

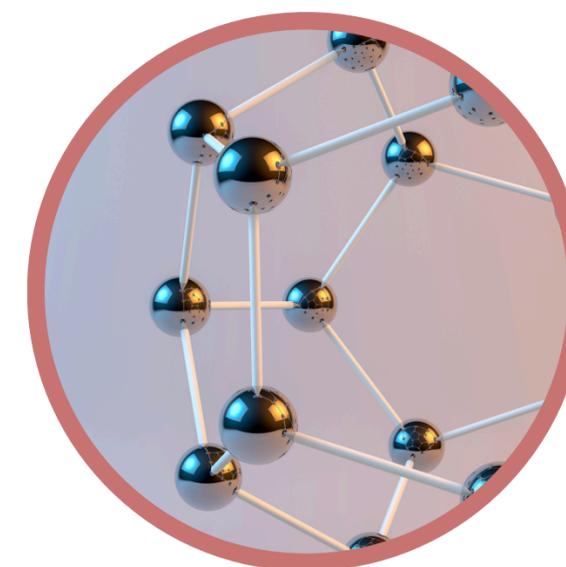


Vineyard Pruning 🔍

Generates waste



Predicts possible uses for
excess plant materials



Innovation

Discovery of new
sustainable actives

“WILL AI TAKE YOUR JOB?”

NVIDIA CEO Jensen Huang



<https://www.youtube.com/shorts/VyfEj67k8-o?feature=share>

HOW TO KEEP AHEAD AS NON AI EXPERTS ?

- Look for tools that are easy to use as Google but with high scientific accuracy
- Make using it an habit
- Keep your creative spirit



MeNow
AI gateway to cosmetics

THANKS!

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