

AI-Driven Discovery of New Lipids for Cosmetics and Food

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We make **ethical & local oils with fermentation** that combine performance excellence and measurable value

Oil Market Under Pressure

Global Trends

- Faster product cycles
- Geopolitics and climate change create supply risks
- Consumer focus on sustainability, local and ethical sourcing

**Impact on
Cosmetics**



**Impact on
Food**



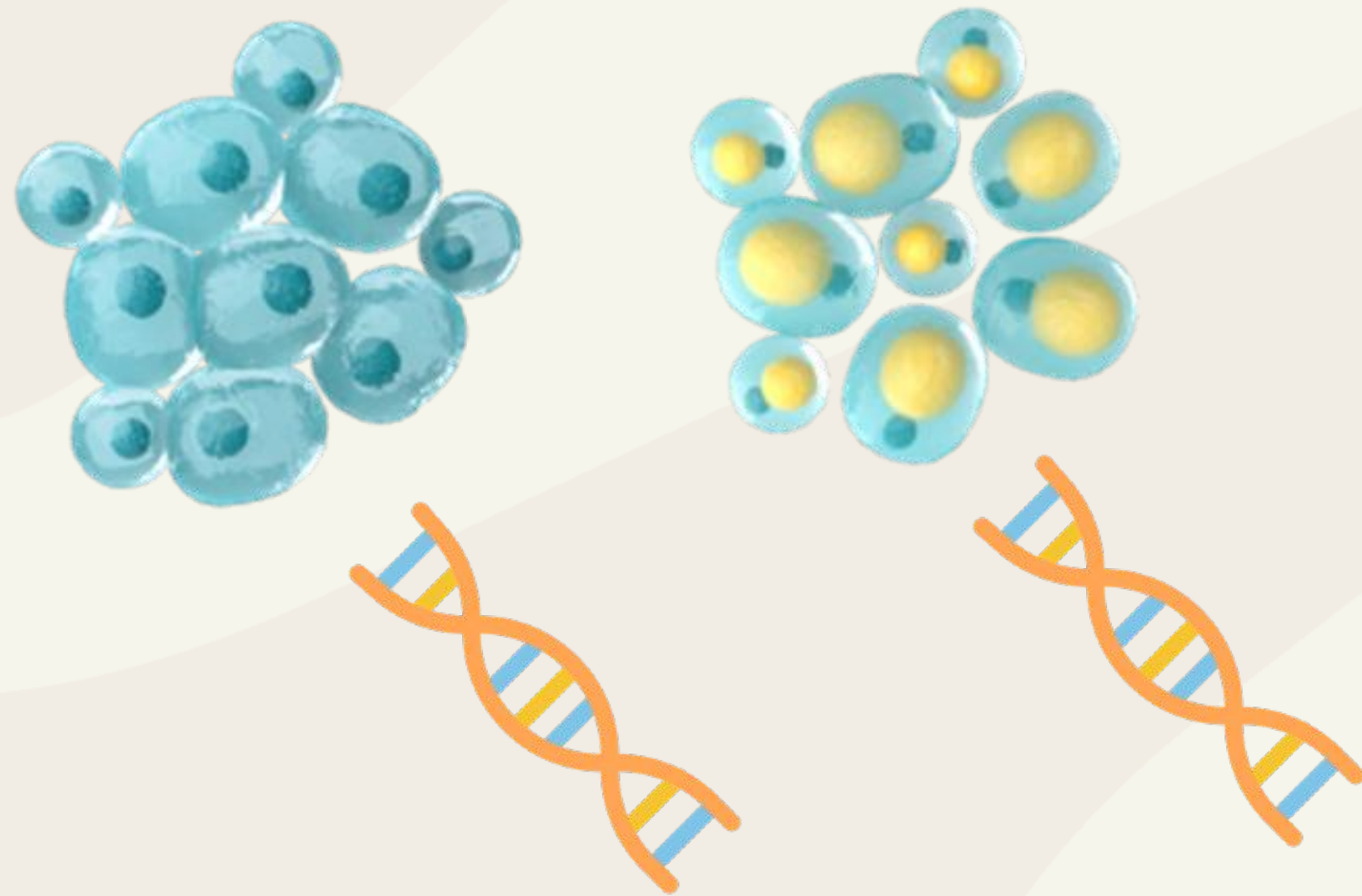


is the world's first Neobank of Yeasts,
a **physical and digital library** of 1,000
non-GMO species that gives direct access to
new sustainable oils and fats

350+ unique new oils to date

How to find oily yeasts?

Some yeasts have oil, **all** yeasts have DNA



SMEY.AI

SMEY.AI for Lipid Discovery

Training data

- lipid content
- genomes

SMEY.AI models for:

- lipid content
- lipid composition

**80%
accuracy**

Predicted
Lipid producers



Growing 1000 yeast Neobank



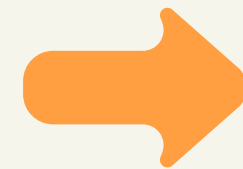
**350+
Novel Lipids**

- 78 Sustainable Plant Oil Analogs
- Unique Fatty Acid enriched Oils

SMEY.AI Models

Training data

- lipid content
- genomes



Embeddings

generated
for features



Neural networks



Test data (genomes)



Neural
networks
trained



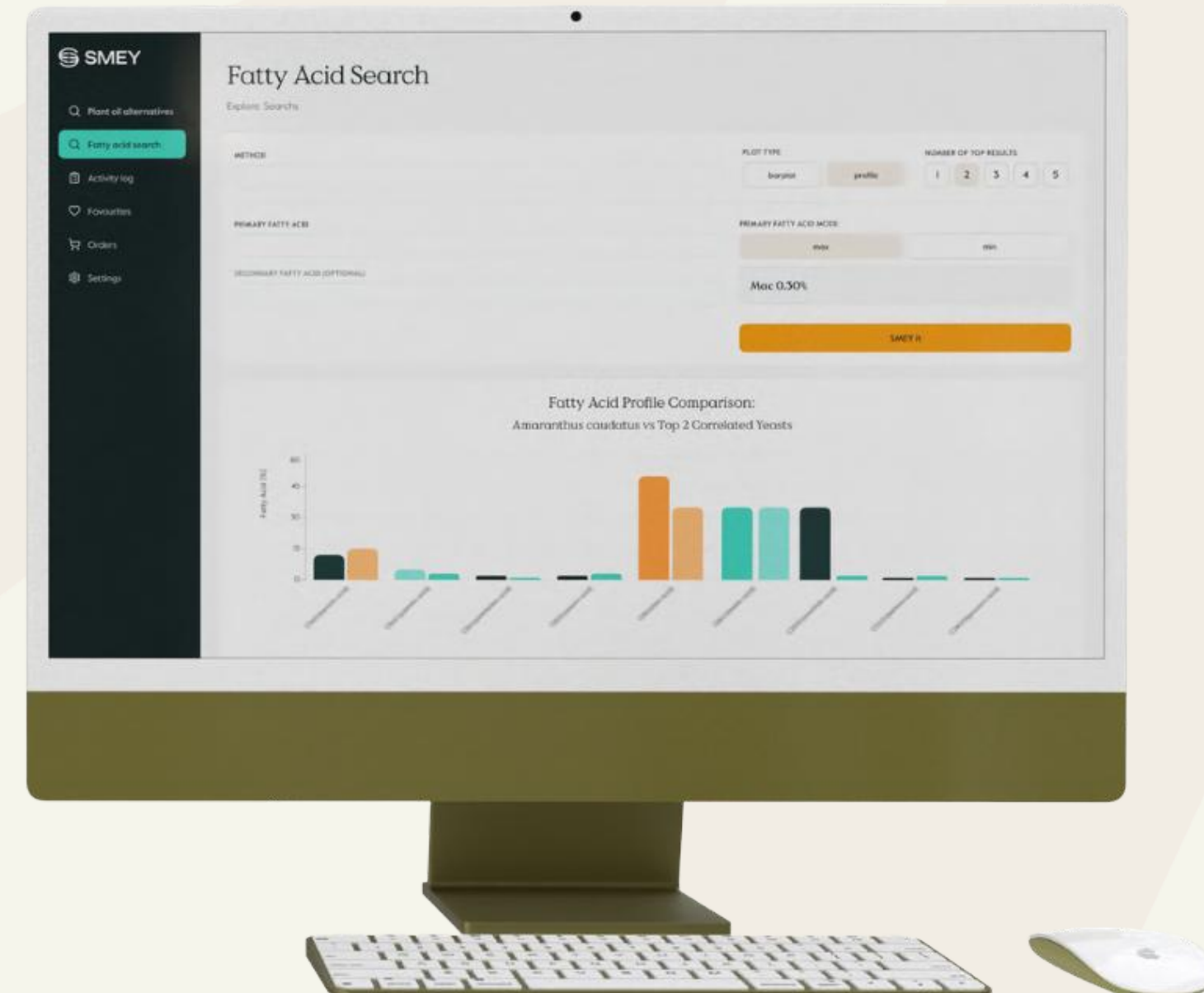
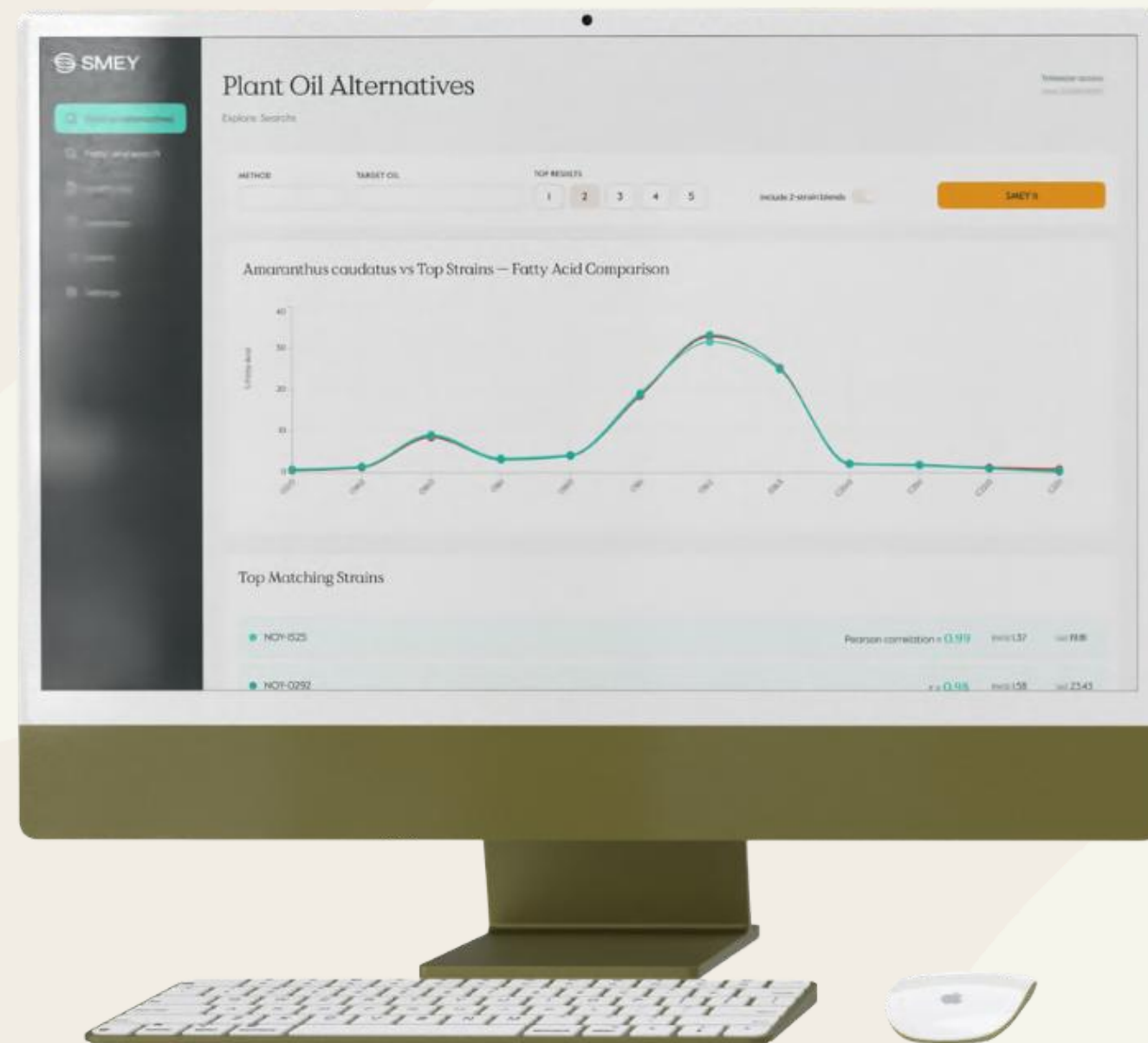
Prediction
*with feature
importance*

Model Training

Lipid Atlas

350+ unique fermented oils
in one platform

lipidatlas.com



Scalable Product Universe of NOY™

Noyl Silk
industrialization

Noyl Cocoa
pilot-ready

Noyl Omega-7
MVP

Noyl Palm
MVP





Lipid Atlas
350 oils to date



1000 yeast Neobank

Why SMEY?



-  Robust R&D Platform
-  Biotech & AI Expertise
-  Exclusive Product Portfolio
-  Ethical & Local by Design



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