



# Synthetic organisms design



**iMEAN**

Life engineering using virtual organisms

Designing new metabolic pathways by combining systems biology and artificial intelligence

When designing new synthetic organisms, one of the main limitations is the **cost and time required** to construct and validate them experimentally.

*We make it easy*



@iMEAN we joined our expertise in **biochemistry** and **systems biology** to create a new tool that designs and validates synthetic organisms *in silico*.

We simulate **millions** of synthetic organisms and provide you with the most promising ones to experimentally validate. We are also able to discriminate the ones that are **patentable**.



**reduce cost**  
**reduce time**  
**IP**

Optimisation

## OUR TECHNOLOGY

Our solution is based on a **high-quality database** of biochemical reactions.

We developed a **tracker** algorithm that combines **systems biology** and **artificial intelligence** to identify **the best synthetic organisms** among the countless number of possibilities.

### Reactions database



### Tracker



Environment



High value chemical

**Multiple optimized synthetic organisms**

**Conquer your market**  
we provide a competitive edge for the client