



Yeast Cell Factory for mRNA Bioproduction



**YEARS OF
DURATION**



COUNTRIES



PARTNERS



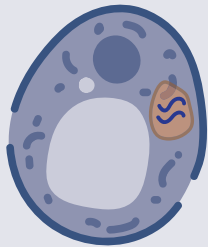
**MIO EURO
BUDGET**



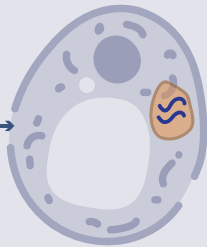
Funded by
the European Union

MANUFACTURING THERAPEUTICS BASED ON YEAST

Yscript aims at developing a large-scale, cost-effective mRNA production platform for medicines and vaccines. mRNA is a natural molecule and a component of all life forms. Yeasts produce mRNA in a way that is very similar to humans. Yscript wants to use this property of yeast. Decades of experience show us that medicines based on yeast are safe.



mRNA will be bioproduced and compartmentalised to prevent it from mixing with yeast's own mRNA



The compartment can be isolated to separate the mRNA therapeutic from the yeast cell



Afterwards, the mRNA can be purified

CHALLENGE

Separation of yeast's own mRNA from therapeutic target mRNA

APPROACH

1. Isolation of desired mRNA in a capsule within the yeast
2. Capsule containing therapeutic mRNA can then be extracted
3. Release and purification of desired mRNA

We assume that mRNA therapeutics from yeast will be cheaper and easier to produce than chemically produced mRNA, making them accessible to everyone. Moreover, the therapeutic efficacy of yeast-based RNA will at least approach that of chemically produced RNA.

www.yscript.eu