

New sustainable proteins

for food, feed and non-food bio-based applications







About InnoProtein

The EU-Funded project InnoProtein aims to tackle the protein deficit in the EU, where 70% of protein-rich crops and 85% of soybeans are imported. To achieve this objective, InnoProtein will deliver safe, tasty, and new proteins that can solve the food security crisis.

Beyond generating newer protein to reduce Europe's dependence on third countries, InnoProtein adopt a zero-waste approach to minimize waste by converting residual protein streams into bioplastics, biostimulants, fermentation medium and bio-based energy sources.

Zero waste approach



Not all the biomass extracted can be used to produce food and feed.

The Project's consortium aims to use all the biomass following a circular and zero-waste approach.

Thereafter biofuels, biostimulants and bioplastics will be produced starting from the biomass discards.











Our protein sources



Microalgae:

They are a diverse source of biomass. The project aims to optimize microalgae production for maximum protein yield, exploring greener refining methods, to obtain a purified protein.

Methylotrophic bacteria:

Known for their adaptability, will be used for high-quality protein production. Proteins will be extracted using innovative techniques, then purified and ground into a powder that will be used for food and feed production.

Fungi

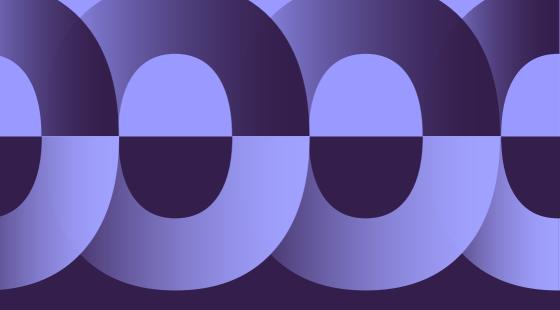
Rich in essential amino acids, various strands will be screened for industrial-scale protein production.

Insects:

As a source of both nutrients and polymers. InnoPROTEIN will establish optimal conditions for large-scale production while revalorizing the insect's shells into polymers and the meat into nutritious ingredients.

In the next four years InnoProtein will:

- Explore different streams of protein sources (bacteria, fungi, microalgae and insects) and maximize the protein yield by testing new advanced extraction techniques.
- Deliver new products for food and feed applications.
- Propose a zero-waste perspective by using all leftover biomass to create valuable non-food biobased applications and products like bioplastics, bio stimulants, and biofuels. Closing the production cycle and promoting an overall reduction of waste.
- Elaborate and eco-business model to demonstrate the economic feasibility of the project.





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