

PIONEERING  
CROPS  
FOR FUTURE  
GENERATIONS

# PROTEIN 2FOOD



**PROTEIN2FOOD** will create innovative, high quality, protein-rich food crops, to sustain human health, the environment and biodiversity.

## Aims & Objectives

- to develop innovative, cost-effective and resource-efficient food crops that are high in protein, with a positive impact on human health, the environment and biodiversity
- to significantly enhance the quality and quantity of proteins from selected seed crops (quinoa, amaranth and buckwheat) and grain legumes (lupin, faba bean, chickpea and lentil), by using a multi-disciplinary approach, involving genetics, agronomy, and food-processing engineering, as well as sensory, socio-economic and environmental assessment
- to gain a better understanding of:
  - genetic mechanisms that drive protein formation and accumulation in seeds
  - plant resilience against biotic and abiotic stresses (pests and environmental factors)
  - protein interactions with other food components and their sensory consequences in the final food products

## Expected Outcomes

- enhance the protein production by 25% through new effective breeding techniques and optimised crop management, with an increase of 10% of Europe's arable land destined to protein-crop production, including marginal soils
- accelerate the transition in consumption of animal-based protein to plant-based protein in Europe with clear impact on reducing the carbon footprint
- increase Europe's agro-biodiversity by introducing novel high-quality crops
- develop prototypes of new protein-rich foods with a viable market potential
- improve Europe's visibility in the area of food processing and technology through scientific publications in high impact factor journals

[www.protein2food.eu](http://www.protein2food.eu)

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The project consists of a diverse consortium with 19 partner institutions from 13 countries comprising breeders, farmers, food ingredient producers, and product manufacturers.

Sven-Erik Jacobsen from the Department of Plant and Environmental Sciences, Faculty of Science at The University of Copenhagen (UCPH) is the coordinator of the PROTEIN2FOOD project.

## Partners:



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