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PROLIFIC

Integrated cascades of PROcesses for the extraction and valorisation of proteins and bioactive molecules from Legumes, Fungi and Coffee agroindustrial side streams

Agro-industrial residual biomass, side streams and food production by-products such as legumes, fungi and coffee are likely to constitute rich sources of valuable ingredients. Their potential is yet to be fully realised. The Prolific project will apply a range of processing technologies to agro-industrial residues of legumes, fungi and coffee in order to recover significant amounts of proteins/peptides, fibres and other value-added compounds.

This project has received funding from the **Bio Based Industries Joint Undertaking** (JU) under grant agreement No 790157. The JU receives support from the **European Union's Horizon 2020** research and innovation programme and the **Bio Based Industries Consortium**.

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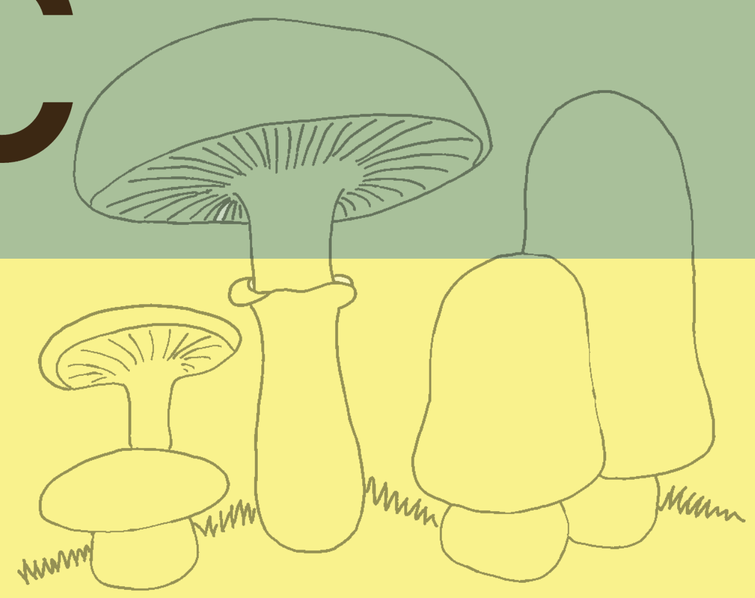

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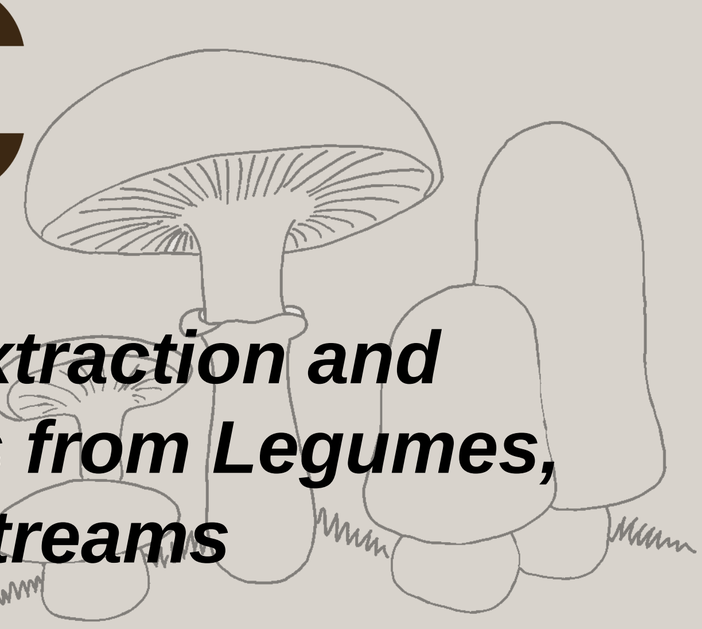

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Objectives

- **Map** the availability and sustainability of the chosen feedstocks
- **Define** the specifications and compliance of residue-derived compounds with existing regulations;
- **Establish** flexible and fully-scalable biorefinery extraction protocols for isolating proteins and bioactive compounds from plant residues;
- **Convert** extracted fractions into valuable ingredients tailored to the specific final applications of industrial end-users;
- **Select**, validate and demonstrate the use of extracted/converted fractions as ingredients in the food, cosmetic, packaging and the animal feed sector;

Description

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