Objective

There is a global need, from sustainability, food security and also health perspective, to increase dietary intake of plant protein. Side-streams from wheat and rice processing offer large under-exploited raw material potential, and we will work throughout the agro-industrial value chain to valorise that. The main aim of PROMINENT is to develop techno-economically and environmentally viable protein-based ingredients and foods from cereal processing side streams. We will concentrate on novel fractionation and extraction technologies, such as bioprocessing, supercritical carbon dioxide (SC-CO2) -extraction, thermo-mechanical technologies, wet and dry fractionation, and expanded bed adsorption as well as their combinations as novel hybrid processing technologies. A strong focus will be in using enzymatic and thermo-mechanical methods to improve techno-functional and sensory properties of protein ingredients to reach desirable taste and
texture in food applications. Pasta, biscuit, cake and beverage food models are the main end product categories, where new protein ingredients will be used as dietary protein source and act as performance proteins to deliver similar techno-functional and sensory properties to animal proteins. We will also assess the safety, quality, techno-economical feasibility, sustainability and market potential of the new protein ingredients and foods, and design strategies for marketing, dissemination, and exploitation of innovations. The project will support the economic growth, resource efficiency and sustainability of the European agro-food industry, and open new market opportunities by generating new plant protein ingredients obtained from cereal processing side streams as well as new products for the consumer food market.

Field of science

/social sciences/economics and business/business and management/commerce
/natural sciences/chemical sciences/inorganic chemistry/inorganic compounds
/natural sciences/biological sciences/biochemistry/biomolecules/proteins
/social sciences/other social sciences/social sciences interdisciplinary/sustainable development
/engineering and technology/other engineering and technologies/food and beverages/food safety

Programme(s)

Topic(s)

Call for proposal

H2020-BBI-PPP-2014-1

Funding Scheme

BBI-RIA - Bio-based Industries Research and Innovation action

Coordinator

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Activity type
Research Organisations

EU contribution
€ 914 631
## Participants (8)

<table>
<thead>
<tr>
<th>Organisation</th>
<th>Country</th>
<th>EU contribution</th>
<th>Address</th>
<th>Activity type</th>
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<td>SUDZUCKER AG</td>
<td>Germany</td>
<td>€ 0</td>
<td>Maximilianstrasse 10 68165 Mannheim</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
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<td>AB Enzymes GmbH</td>
<td>Germany</td>
<td>€ 0</td>
<td>Feldbergstrasse 78 64293 Darmstadt</td>
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<td>UPFRONT CHROMATOGRAPHY AS</td>
<td>Denmark</td>
<td>€ 346 000</td>
<td>Lerso Parkalle 42 2100 Kobenhavn</td>
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<td>United Kingdom</td>
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</table>
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Activity type
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