

# Selection of feed for gilt pigs to improve the lipid profile of high-quality cured sausages

## Summary

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The goal of the project is to test various types of feed in non-breeding female pigs (gilts) with the aim of obtaining the best lipid profile in *llonganissa* (a type of spicy pork sausage) and also achieving the best organoleptic and sensory characteristics for this product.

To achieve the objectives proposed in the project it will be necessary to develop the following specific technological objectives, which will determine the main work lines of the project.

- Conduct a study on control batches and test batches of gilts with semi-extensive pasture systems.
- Study the effects of modifying the animals' feed on the lipid profile of the meat.
- Assess the viability of using pork with a better lipid profile as the raw material for the sausages being studied.
- Assess the nutritional and sensory properties of the sausages.
- Determine the colour and texture profile of the sausages.
- Assess the variation of the environmental impacts attributed to the variation of the animals' feed and identify the critical points of the value chain to optimise the consumption of resources and energy.
- Assess the impact of the incorporation of a sustainability mark on the labelling of the products as an important marketing and dissemination tool: 'Sausage produced with a high-quality nutritional and environmentally responsible profile'.

## Objectives

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The general objective of the project is to improve the lipid profile of the sausages by modifying the animal's feed with the aim of improving the nutritional status of the consumers, and in short, their quality of life and wellbeing.

## Description of initiatives outlined in the project

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Changes will be made to each one of a total of four batches in order to obtain the optimal feed for the animals and therefore obtain the best lipid profile in the *llonganissa* sausage and also the best organoleptic and sensory characteristics of the product with a view to achieving optimal consumer acceptance.

## Expected results and practical recommendations

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- Various products with a modified lipid profile and an increase in unsaturated fatty acids with suitable sensory quality.
- Definition of the optimal feeding method to obtain an improved lipid profile.
- Effective dissemination of the results in relation to the improvement of the lipid profile at the sectorial and scientific levels.
- Environmental impact reports:
  - Internal technical report describing the generated environmental impacts, the flows that cause them and improvement proposals and alternatives.
  - A report that verifies, where applicable, new products by means of recognised ecolabels, such as ISO 14067 (Carbon Footprint) and ISO 14046 (Water Footprint), that enable environmental communication and the dissemination of the results of the project to the consumers.

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## Task force leader

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Entity: **Grup Gepork SA**

Contact e-mail:  
**gepork@gepork.es**

Typology of entity:  
**Agri-food company**

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## Task force coordinator

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Entity: **INNOVACC**

Contact e-mail:  
**innovacc@olot.cat**

Typology of entity:  
**Innovation centre**

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## Other task force members (grant beneficiaries)

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Entity: **Splendid Foods, SAU**

Contact e-mail:  
**info@splendid-foods.com**

Typology of entity:  
**Agri-food company**

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## Other task force members

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Entity: **Fundació Universitària Balmes**

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**miriam.torres@uvic.cat**

Typology of entity:  
**University**

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## Subject area(s) of application

Energy management  
Food quality/processing and nutrition

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## Geographical area(s) of application

| <i>Province(s)</i> | <i>Region(s)</i> |
|--------------------|------------------|
| Barcelona          | Osona            |

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## Dissemination of the project (publications, conferences, multimedia...)

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News article in the INNOVACC newsletter of November 2017 explaining the submission of the subsidy application: <http://www.innovacc.cat/2017/11/28/projectes-presentats-en-la-linia-de-grups-operatius-2017-del-darp/>

News article in the INNOVACC newsletter of July 2018 notifying of the awarding of the subsidy for execution of the project: <http://www.innovacc.cat/2018/07/23/ajuts-obtinguts-per-a-6-projectes-pilots-de-grups-operatius-del-darp-2017/>

Publication of information on the project on the INNOVACC website:  
<http://www.innovacc.cat/2018/07/23/el-projecte-seleccio-de-l-alimentacio-de-truges-no-reproductores-per-a-la-millora-del-perfil-lipidic-dels-embotits-curats-dalta-qualitat-a-obtingut-un-ajut-de-grups/>

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## Project website

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<http://www.innovacc.cat/2018/07/23/el-projecte-seleccio-de-l-alimentacio-de-truges-no-reproductores-per-a-la-millora-del-perfil-lipidic-dels-embotits-curats-dalta-qualitat-a-obtingut-un-ajut-de-grups/>

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## More information on the project

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### Project dates

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### Budget approved

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Starting date (month-year): June 2018

Completion date (month-year):

Current status: *Underway*

**Total budget:**

**€93,382.68**

*DARP funding:*

€38,163.56

*EU funding:*

€28,790.06

*Own funding:*

€26,429.06

**With funding from:**

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Generalitat de Catalunya  
**Departament d'Agricultura,  
Ramaderia, Pesca i Alimentació**



**Fons Europeu Agrícola  
de Desenvolupament Rural:**  
Europa inverteix en les zones rurals

Project funded through Operation 16.01.01 (Cooperation for Innovation) through the Catalan Rural Development Programme 2014-2020.

*Order ARP/133/2017, of 21 June, approving the regulatory bases of grants for cooperation for innovation through the promotion of the creation of European Association for Innovation task forces in terms of agricultural productivity and sustainability and the execution of innovative pilot projects by these groups.*

*Resolution ARP/1868/2017, of 20 July, calling for applications for grants for the year 2017.*

*Project ID: 029\_2017*