

Biopro.



R+D+i Project

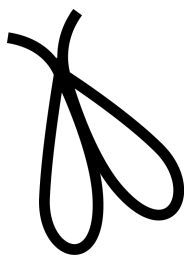


Idea.

Since 2013, the breeding of insects has aroused great interest in Europe, due to the urgent need to find **new sources of high quality animal protein**. The use of insects as a food source has many environmental and health benefits, insects have a high degree of conversion of a **wide variety of sources of organic matter**; its production implies a lower production of greenhouse gases, produce high quality proteins; its environmental impact is less; it requires less space, etc.

These insects can feed on **organic matter and produce high quality products** such as proteins (for use in feed and food), fats (detergents, industrial oils), chitin (water purification, agriculture, chemical and pharmaceutical industries) or **substrates capable of fertilization**. They are used with great interest, to reduce the volume of waste, significantly reduce transport costs and generate value-added products.

The model is based on the industrial application of **Hermetia illucens** (black soldier fly) as a converter of organic matter. This species has been selected for its high conversion capacity, for being an efficient converter of a great variety of waste of different kinds, **for allowing its industrial production at very high densities**, and for not being considered a pest or an insect that could have an impact negative in the environment.



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entomo AgroIndustrial



The massive production of insects is an industry in continuous movement, being necessary to dedicate a part of the resources to carry out research studies with the most relevant public and private organizations.

The platform of **Entomo AgroIndustrial** is prepared to carry out these investigations. Thanks to our partners in technology and engineering, and a long list of scientific collaborators, we have established a series of objectives. These objectives are part of a Research and Development Plan that intensifies the relationship with all our employees.

Achieving these objectives, we will find ourselves in a unique strategic position, with important information to access other types of clients, add other conversion technologies, more insect species that act as bioconvertors, the possibility of collaborating in international research projects, etc.

Obtaining bioactive components for the agri-food sector through bioconversion and biorefinery processes of by-products of animal and vegetable origin.

Objective.

BIOPRO is a project that integrates for the first time stages of bioconversion with biorefinery to **obtain bioactive compounds from by-products of the agro industry**, with both nutritional and technological properties, and its incorporation into food and feed.

Partners.

2 SMEs
3 Research Centers
5 Industries
1 University

Duration.

4 years

Area.

National

Call.

CIEN

Budget.

€6 MILL.



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