

## Presentation.

The Department of Agri-Food Engineering and Biotechnology (DEAB) is Unit 745 of the Universitat Politècnica de Catalunya-BarcelonaTech (UPC). We are located on the Baix Llobregat UPC Campus in Castelldefels, within the Mediterranean Technology Park.

Research and technology transfer is carried out through our Research Groups, PhD programs, and the participating organizations.

The purpose of DEAB is to successfully of quality education and promote research i/or technology transfer that is beneficial to our society.

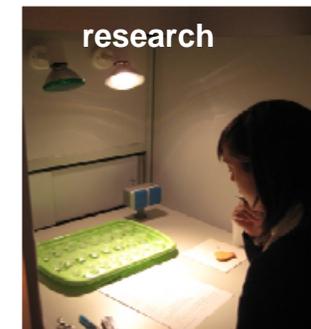
The DEAB, in conjunction with ESAB and EETAC, is responsible for the implementation of the UPC Clúster Agro@limentari, to promote and facilitate relations between university and business sectors, bridging research and facilitating the incorporation of innovative technologies in the agro-food sector.



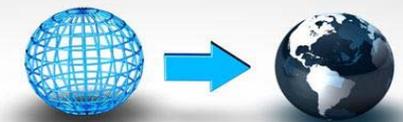
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Departament d'Enginyeria Agroalimentària  
i Biotecnologia



Technology transfer



<http://deab.upc.edu/>

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## Research Groups UPC

⇒ **UPC Agro-Food and Biotechnology Department**

⇒ More than **70 researchers**.

⇒ **Facilities for advancing research**.

⇒ Developer of the UPC **Clúster Agro-Food**

⇒ Teaching in:

⇒ Degrees

⇒ UPC Master's degree and in collaboration with others universities

⇒ Continuing Training

⇒ Perform research through:

### **UPC Research Groups**

#### **Research Groups at others universities:**

Precision Agriculture (UdL)

Biophysics of Macromolecules (UAB-2009SGR1014)

Water Economy (UdL-2009SGR665)

Weed Science and Plant Ecology (UdL-2009SGR479)

Food Technology (URV-2009SGR1044)

#### **Doctoral Programs:**

Food Technology and Biotechnology

Environmental Engineering

#### **Participating Entities:**

CREDA. Center for Agro-food Economy Research and Development(2009SGR1166).

FMA. Miquel Agustí Foundation

GIRO. Integral Management of Organic Waste. (2009SGR791).

XRAq, Reference Network in Aquaculture

**ALIMen.** Engineering and Food Production.



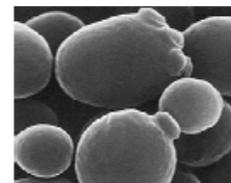
**AQUAL.** Aquaculture and Aquatic Product Quality.



**GREa.** Research Group on Agro-environmental engineering. .



**MOSIMBIO.** Modeling and Simulation of Biological Systems



**MVCO.** Vegetal Improvement for Organoleptic properties.



**POCIO.** Plant Protection Research Group.



<http://deab.upc.edu/recerca/grups-de-recerca/>



## Food Technology and Biotechnology Quality Mention 2008-2012

### **Research lines:**

- Minimally processed products and Cryo concentration
- Design of aquaculture systems to promote animal welfare and environmental sustainability.
- Treatment and use of water and organic waste.
- Predictive Microbiology.
- Genetic and environmental effects on sensory value traditional crop varieties.
- Precision agriculture, weed management and control of nematodes.
- Molecular and industrial biotechnology

<http://deab.upc.edu/Doctorat>

## Environmental Engineering (interdepartamental) Excellence Mention

### **Research lines:**

Participating through the **GIRO** and the Research Group **GREa**.

- Anaerobic digestion
- Nutrients recovery
- Microbial fuel cells

<http://senna.upc.edu>