

EXCornsEED

Separation, fractionation and isolation of biologically active natural substances from corn oil and other side streams.



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The european project **EXCornsEED** [<https://www.excornseed.eu/>] aims to develop sustainable technologies that allow to obtain functional constituents to food, chemical products and cosmetics from secondary effluents of corn biorefineries, bioethanol and biodiesel.

It has a duration of three and a half years and an incentive of 4,2 million euros from the **Bio-Based Industries** [<https://www.bbi-europe.eu/>] under the Horizon 2020 (H2020) programme of the European Union. Led by the University of Roma Sapienza, the project has 13 partners from 8 countries (Italy, Slovakia, Romania, Spain, Belgium, Switzerland, Germany and Netherlands).

EXCornsEED is framed within the european objective of transforming the traditional bioethanol production into a new concept of more sustainable

biorefinery, accordingly to the bioeconomic strategy of the European Union and aligned with the new concept of **Circular Economy**, which promotes a better use of resources in order to make its exploitation more sustainable and environmentally conscious.

It pretends to combine chemistry, biology, engineering and biotechnology to develop and validate sustainable technologies of extraction, purification and concentration applicable to bio-refineries. This approach aims to extract proteins and other bioactive compounds (peptides, polyphenols, amino acids, fibres, etc.) from its secondary effluents, to its subsequent use as ingredients in food, chemicals and cosmetics.

Partners

Sapienza Università di Roma [<https://www.uniroma1.it>] (leader)

Enviral [<https://www.enviral.sk/en/>]

Highchem [<http://www.highchem.com>]

Consiglio per la Ricerca in Agricoltura e L'Analisi dell'Economia Agraria [http://sito.entecra.it/portale/index2.php?lingua=EN&id=&id_gruppo=&tipo=&tipo_org=&sezione=&opz_menu=&acces]

Institutul National de Cercetare Dezvoltare Pentru Chimie Si Petrochimie Icechim [<http://www.icechim.ro/indexen.php>]

Technological Corporation of Andalusia [</sites/cta/en/index.html>]

Celabor [http://www.celabor.be/site/index.php?id_surf=&surf_lang=en]

Dr. Lauranne [<http://www.drlauranne.eu/en/>]

Biozoon GMBH [<https://biozoon.de/en/>]

Innovation Engineering [<https://www.innovationengineering.eu>]

Tecnalía Research and Innovation [<https://www.tecnalia.com/es/tecnalia/index.htm>]

Nutricia Research [<https://www.nutriciaresearch.com>]

Budget and deadlines

Budget: 4,2 million €

Deadlines: 2018 - 2021 (42 months)

CTA activity

CTA will lead the sustainability counseling team, in charge of the technoeconomical and regulatory consultancy, as well as the standardisation area. Likewise, CTA will steer the development of business models and co-lead the communication and project outreach area.

CTA participates in the European project EXCornSEED of 7,2 M€ to extract functional ingredients

[<http://www.corporaciontecnologica.com/es/sala-de-prensa/noticias/CTA-participa-en-el-proyecto-europeo-EXCornSE>]

Links - More info

- EXCornsEED website: <https://www.excornseed.eu/> [<https://www.excornseed.eu/>]