

# Integrated Process and Product Design for Sustainable Biorefineries

## Fact Sheet

### Project Information

#### IProPBio

Grant agreement ID: 778168



#### DOI

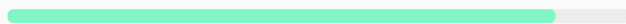
[10.3030/778168](https://doi.org/10.3030/778168) 

#### Start date

1 January 2018

#### End date

31 October 2023



#### Funded under

EXCELLENT SCIENCE - Marie Skłodowska-Curie  
Actions

#### Total cost

€ 697 500

#### EU contribution

€ 594 000

#### Coordinated by

SYDDANSK UNIVERSITET



Denmark

## Objective

Bio-based economy in Europe involves 22 million people and turns over roughly 2.4 billion €. The full realization of its huge potential, however, requires expert knowledge and synergy of different competencies. In particular, key questions and bottlenecks awaiting clear answers are:

- How to design and integrate flexible and product-tailored processes for the available biomass feedstocks?
- How to integrate chemical and biochemical routes into sustainable biorefining of the given feedstocks?
- How to relate the biomass extraction and separation processes with the properties of the desired products and the sustainable utilization of the depleted matrices?
- How the production processes can be integrated into closed loop production?

The overall goal of IProPBio is to exchange complementary theoretical and experimental knowledge of research Staff while looking for innovative answers to such important questions. IProPBio is divided in 4 research oriented work packages plus two supporting packages for internal knowledge sharing and results dissemination. Alternative feedstock and high-value products characterization; thermodynamic data analysis and properties prediction; alternative technological flowsheets for economic and eco-compatible conversion of waste biomass into high value products; mass and energy integration studies to reduce wastes and enhance the profitability; life cycle assessment to determine the net contribution of the best designs to environmental pollution, are the main issues approached in the work packages.

IPropBio will significantly impact:

- the competitiveness of EU bioeconomy
- participants' potential and new carrier perspectives
- exchange and transfer of high-quality multidisciplinary knowledge, advanced expertise, research and innovation between academic and non-academic participants in EU member states and third countries through the dissemination of the results achieved to target groups and the general public.

## Fields of science

natural sciences › computer and information sciences › **data science**

natural sciences › biological sciences › biochemistry › biomolecules › **lipids**

social sciences › economics and business › economics › **bioeconomy**

engineering and technology › **chemical engineering**

agricultural sciences › agricultural biotechnology › **biomass**

## Programme(s)

H2020-EU.1.3. - EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

MAIN PROGRAMME

H2020-EU.1.3.3. - Stimulating innovation by means of cross-fertilisation of knowledge

## Topic(s)

MSCA-RISE-2017 - Research and Innovation Staff Exchange

## Call for proposal

H2020-MSCA-RISE-2017

[See other projects for this call](#)

## Funding Scheme

[MSCA-RISE - Marie Skłodowska-Curie Research and Innovation Staff Exchange \(RISE\)](#)

## Coordinator



### SYDDANSK UNIVERSITET

Net EU contribution

€ 67 500,00

Address

**Campusvej 55**

**5230 Odense M**

 **Denmark** 

Region

**Danmark > Syddanmark > Fyn**

Activity type

**Higher or Secondary Education Establishments**

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

€ 40 500,00

## Participants (9)

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### INSTITUTO SUPERIOR DE ENGENHARIA DE LISBOA

 **Portugal**

Net EU contribution

€ 36 000,00

Address

**Rua Conselheiro Emidio Navarro 1**

**1959 007 Lisboa** 

Region

**Continente > Área Metropolitana de Lisboa > Área Metropolitana de Lisboa**

Activity type

**Higher or Secondary Education Establishments**

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

**€ 9 000,00**

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## PANEPISTIMIO PATRON

Greece

Net EU contribution

**€ 171 000,00**

Address

**University Campus Rio Patras**

**265 04 Rio Patras**

Region

**Αχαΐα > Δυτική Ελλάδα > Κεντρική Ελλάδα**

Activity type

**Higher or Secondary Education Establishments**

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

**€ 18 000,00**

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## CONSIGLIO NAZIONALE DELLE RICERCHE

Italy

Net EU contribution

**€ 72 000,00**

Address

**Piazzale Aldo Moro 7**

**00185 Roma**

Region

**Centro (IT) > Lazio > Roma**

Activity type

**Research Organisations**

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

**€ 22 500,00**

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**CHIMIKOTECHNOLOGITCHEN I METALURGITCHEN UNIVERSITET**

Bulgaria

Net EU contribution

€ 0,00

Address

**KI Ohridsky Boulevard 8  
1756 Sofia**

Region

**Югозападна и Южна централна България > Югозападен > София (столица)**

Activity type

**Higher or Secondary Education Establishments**

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

€ 0,00

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**UNIVERSIDAD DE SALAMANCA**

Spain

Net EU contribution

**€ 45 000,00**

Address

**Calle Batib De Escuelas 1**

Calle Patio De Escuelas 1

37008 Salamanca 

Region

**Castilla y León > Salamanca**

Activity type

**Higher or Secondary Education Establishments**

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

**€ 4 500,00**



## UNIVERSITY COLLEGE LONDON

 United Kingdom

Net EU contribution

**€ 45 000,00**

Address

**Gower Street**

**WC1E 6BT London** 

Region

**London > Inner London — West > Camden and City of London**

Activity type

**Higher or Secondary Education Establishments**

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

**€ 0,00**



## INSTITUT PO INZHENERNA HIMIYA

 Bulgaria

Net EU contribution

**€ 67 500,00**

Address

Address

**UI Georgi Bonchev Bl 103**

**1113 Sofia** 

Region

**Югозападна и Южна централна България > Югозападен > София (столица)**

Activity type

**Research Organisations**

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

**€ 9 000,00**



## **SANTZOUK SAMIR & CO GENERAL PARTNERSHIP**

 Greece

Net EU contribution

**€ 22 500,00**

Address

**Chrisostomou Smirnis 14**

**30027 Agrinio** 

SME 

**Yes**

Region

**Αιτωλοακαρνανία > Δυτική Ελλάδα > Κεντρική Ελλάδα**

Activity type

**Private for-profit entities (excluding Higher or Secondary Education Establishments)**

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

**€ 0,00**



## **INSTITUTO SUPERIOR TECNICO**

 Portugal

 Portugal

Net EU contribution

**€ 67 500,00**

Address

**Avenida Rovisco Pais 1**  
**1049 001 Lisboa** 

Region

**Continente > Área Metropolitana de Lisboa > Área Metropolitana de Lisboa**

Activity type

**Higher or Secondary Education Establishments**

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

**€ 0,00**

## Partners (3)

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**PARTNER** 

**UNIVERSIDADE FEDERAL DO PARANA**

 Brazil

Net EU contribution

**€ 0,00**

Address

**Rua Xv De Novembro 1299**  
**80060000 Curitiba** 

Activity type

**Higher or Secondary Education Establishments**

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Other funding

**€ 31 500,00**





PARTNER

## TEXAS A&M UNIVERSITY SYSTEM

United States

Net EU contribution

€ 0,00

Address

**301 Tarrow Street**  
**77840 College Station**

Activity type

**Higher or Secondary Education Establishments**

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

€ 0,00

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PARTNER

## TECNOLOGICO NACIONAL DE MEXICO

Mexico

Net EU contribution

€ 0,00

Address

**Av. Universidad No. 1200, 5° Piso Colonia Xoco**  
**03330 Ciudad De Mexico**

Activity type

**Higher or Secondary Education Establishments**

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Other funding

€ 72 000,00

**EC signature date:** 25 September 2017

**Last update:** 21 September 2022

**Record number:** 212228

**Permalink:** <https://cordis.europa.eu/project/id/778168>

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