



"ECaBox ""Eyes in a Care Box"": Regenerating human retina from resuscitated cadaveric eyes"

Fact Sheet

Project Information

ECaBox

Grant agreement ID: 964342

[Project website](#)

DOI

[10.3030/964342](https://doi.org/10.3030/964342)

EC signature date

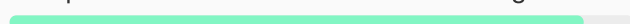
20 January 2021

Start date

1 September 2021

End date

31 August 2025



Funded under

EXCELLENT SCIENCE - Future and Emerging Technologies (FET)

Total cost

€ 3 552 143,75

EU contribution

€ 3 552 143,75

Coordinated by

FUNDACIO CENTRE DE
REGULACIO GENOMICA



Spain

Project description

A closer look at how to resuscitate the human cadaveric eye

Many new drugs and regenerative therapies have been developed in the last decades. But not all translational research is successful. Preclinical research still lacks sufficient models of human organs. The EU-funded ECaBox project will develop a pioneering platform to challenge existing paradigms of testing the efficacy and safety of regenerative therapies ex vivo. The technology intends to resuscitate the human cadaveric eye and guarantee retina function and structure ex vivo for an extended time period. The project will avoid ethical restrictions of human

experimentation and serve as a point of contact for therapies in other organs preserved ex vivo. ECaBox will also explore the potential of this innovative technology for tackling retina degeneration causing blindness.

Fields of science (EuroSciVoc)

[medical and health sciences](#) > [basic medicine](#) > [physiology](#).



Keywords

[Stem cell biology.](#)

[Electrophysiology.](#)

[Drug therapy.](#)

[SR microscopy.](#)

Programme(s)

[H2020-EU.1.2. - EXCELLENT SCIENCE - Future and Emerging Technologies \(FET\).](#)

MAIN PROGRAMME

[H2020-EU.1.2.1. - FET Open](#)

Topic(s)

[FETOPEN-01-2018-2019-2020 - FET-Open Challenging Current Thinking](#)

Call for proposal

[H2020-FETOPEN-2018-2020](#)

[See other projects for this call](#)

Sub call

H2020-FETOPEN-2018-2019-2020-01

Funding Scheme

[RIA - Research and Innovation action](#)

Coordinator



FUNDACIO CENTRE DE REGULACIO GENOMICA

Net EU contribution

€ 1 299 376,25

Total cost

€ 1 299 376,25

Address

CARRER DOCTOR AIGUADER 88
08003 Barcelona

Spain

Region

Este > Cataluña > Barcelona

Activity type

Research Organisations

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Participants (6)



UNIVERSITAT DE BARCELONA

Spain

Net EU contribution

€ 301 667,50

Address

GRAN VIA DE LES CORTS CATALANES 585
08007 Barcelona

Region

Este > Cataluña > Barcelona

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 301 667,50



FUNDACIO INSTITUT DE BIOENGINYERIA DE CATALUNYA

 Spain

Net EU contribution

€ 232 960,00

Address

CARRER BALDIRI REIXAC PLANTA 2A 10-12

08028 Barcelona 

Region

Este > Cataluña > Barcelona

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 232 960,00



BAR ILAN UNIVERSITY

 Israel

Net EU contribution

€ 355 125,00

Address

BAR ILAN UNIVERSITY CAMPUS

52900 Ramat Gan 

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 355 125,00



ASSOCIATION FOR THE ADVANCEMENT OF TISSUE ENGINEERING AND CELL BASED TECHNOLOGIES & THERAPIES

 Portugal

Net EU contribution

€ 538 648,75

Address

AVEPARK PARQUE DE CIENCIA E TECNOLOGIA ZONA ZONA INDUSTRIAL DA GANDRA S
CLAUDIO DO BARCO
4805-017 Gualtar 

Region

Continente > Norte > Ave

Activity type

Research Organisations

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

€ 538 648,75



AFERETICA SRL

 Italy

Net EU contribution

€ 382 082,50

Address

VIA SPARTACO 10
40138 Bologna 

SME 

Yes

Region

Nord-Est > Emilia-Romagna > Bologna

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](#)

Total cost

€ 382 082,50



KING'S COLLEGE LONDON

 United Kingdom

Net EU contribution

€ 442 283,75

Address

STRAND

WC2R 2LS London

Region

London > Inner London — West > Westminster

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#)

Total cost

€ 442 283,75

Last update: 2 April 2025

Permalink: <https://cordis.europa.eu/project/id/964342>

