Bioengineered autonomous cell-biomaterials devices for generating humanised micro-tissues for regenerative medicine

Fact Sheet

Project Information

ATLAS

Grant agreement ID: 669858

Project website

DOI
10.3030/669858

Project closed

EC signature date
19 November 2015

Start date
1 December 2015

End date
31 October 2021

Funded under
EXCELLENT SCIENCE - European Research Council (ERC)

Total cost
€ 2 498 987,50

EU contribution
€ 2 498 987,50

Coordinated by
UNIVERSIDADE DE AVEIRO
Portugal

Project description

Advancing biomimetic tissue engineering

Activation of endogenous tissue repair is emerging as an attractive strategy for regenerative medicine. Therefore, advanced tissue engineering solutions that mimic the natural regeneration process and the hierarchical organisation of native tissues

are required. Funded by the European Research Council, the ATLAS project aims to develop 3D-engineered tissue solutions that incorporate physical and biochemical cues relevant to stem cell niches, such as cell signalling, extracellular matrix structure, and mechanical signals. Researchers will develop biomaterials based on marine macromolecules that facilitate cell attachment and controlled degradation. Bone will be the first model system, but the methodologies can be applied for the development of a variety of microtissues for disease modelling and drug discovery purposes.

Fields of science (EuroSciVoc)

medical and health sciences > basic medicine > pharmacology and pharmacy > **drug discovery**

medical and health sciences > medical biotechnology > **tissue engineering**

medical and health sciences > medical biotechnology > cells technologies > **stem cells**

medical and health sciences > basic medicine > **physiology**

engineering and technology > industrial biotechnology > **biomaterials**

Programme(s)

H2020-EU.1.1. - EXCELLENT SCIENCE - European Research Council (ERC) MAIN PROGRAMME

Topic(s)

ERC-ADG-2014 - ERC Advanced Grant

Call for proposal

ERC-2014-ADG

See other projects for this call

Funding Scheme

ERC-ADG - Advanced Grant

Host institution

UNIVERSIDADE DE AVEIRO

Net EU contribution

€ 2 438 987,50

Total cost

€ 2 438 987,50

Address

CAMPUS UNIVERSITÁRIO DE SANTIAGO
3810-193 Aveiro
Portugal

Activity type

Higher or Secondary Education Establishments

Links

Contact the organisation Website
Participation in EU R&I programmes
HORIZON collaboration network

Beneficiaries (2)

UNIVERSIDADE DE AVEIRO

Portugal

Net EU contribution

€ 2 438 987,50

Address

CAMPUS UNIVERSITÁRIO DE SANTIAGO
3810-193 Aveiro

Activity type

Higher or Secondary Education Establishments

Links

Contact the organisation Website
Participation in EU R&I programmes
HORIZON collaboration network

Total cost

€ 2 438 987,50

UNIVERSIDADE DO MINHO

Portugal

Net EU contribution

€ 60 000,00

Address

LARGO DO PACO
4704 553 Braga

Region

Continente > Norte > Cávado

Activity type

Higher or Secondary Education Establishments

Links

Contact the organisation Website
Participation in EU R&I programmes
HORIZON collaboration network

Total cost

€ 60 000,00

Last update: 26 May 2022

Permalink: https://cordis.europa.eu/project/id/669858