



Induced pluripotent stem cell seeded active osteochondral nanofibrous scaffolds

Fact Sheet

Project Information

iP-OSTEO

Grant agreement ID: 824007

[Project website](#)

DOI

[10.3030/824007](https://doi.org/10.3030/824007)

Project closed

EC signature date

14 November 2018

Start date

1 February 2019

End date

31 July 2024

Funded under

EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

Total cost

€ 1 099 400,00

EU contribution

€ 1 099 400,00

Coordinated by

USTAV EXPERIMENTALNI
MEDICINY AKADEMIE VED
CESKE REPUBLIKY VEREJNA
VYZKUMNA INSTITUCE



Czechia

Project description

Novel biodegradable implants for older patients with osteochondral defects

The degeneration of cartilage in joints is associated with trauma or conditions such as osteoarthritis and rheumatic arthritis. To treat patients with these conditions, specific scaffolds are being developed for restorative procedures. The scaffolds should be biocompatible and biodegradable, able to control stem cell differentiation into osteoblasts via bioactive compounds, and they should also allow cell ingrowth

from the adjacent tissues. Moreover, they should mimic the natural porous extracellular matrix of the tissue and form three-dimensional structures. Funded by the Marie Skłodowska-Curie Actions programme, the iP-OSTEO project aims to develop cell-based scaffolds for bone and cartilage repair in older patients with poor regenerative capacity. The proposed technology involves induced pluripotent stem cells with improved regeneration capacity and novel nanostructured scaffolds with a drug delivery system, stimulating cell regeneration.

Keywords

iPSCs

scaffolding system

osteoporosis

osteoarthritis

ageing

musculoskeletal disease

3D cell culture

bioreactors

personalized medicine

drug delivery

controlled release

nanofibers

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-2018 - Research and Innovation Staff Exchange](#)

Call for proposal

[H2020-MSCA-RISE-2018](#) 

[See other projects for this call](#)

Funding Scheme

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

Coordinator



USTAV EXPERIMENTALNI MEDICINY AKADEMIE VED CESKE REPUBLIKY VEREJNA VYZKUMNA INSTITUCE

Net EU contribution

€ 257 600,00

Total cost

€ 257 600,00

Address

VIDENSKA 1083

14220 Praha 4



Czechia



Activity type

Research Organisations

Links

[Contact the organisation](#)

[Website](#)

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

[HORIZON collaboration network](#)

Participants (13)



INOCURE SRO



Czechia

Net EU contribution

€ 156 400,00

Address

POLITICKYCH VEZNU 935/13

11000 Praha

SME

Yes

Region

Česko > Praha > Hlavní město Praha

Activity type

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

Links

[Contact the organisation](#)

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

Total cost
€ 156 400,00



SZECHENYI ISTVAN EGYETEM

 Hungary
Net EU contribution
€ 165 600,00

Address
EGYETEM TER 1
9026 Gyor 
Region
Dunántúl > Nyugat-Dunántúl > Győr-Moson-Sopron

Activity type
Higher or Secondary Education Establishments

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

Total cost
€ 165 600,00



OSPIN GMBH 
 Germany
Net EU contribution
€ 46 000,00

Address
FEURIGSTRASSE 54
10827 Berlin 

SME 
Yes

Region
Berlin > Berlin > Berlin

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

€ 46 000,00



BIONEER A/S

Denmark

Net EU contribution

€ 9 200,00

Address

KOGLE ALLE 2
2970 Hoersholm

Region

Danmark > Hovedstaden > Nordsjælland

Activity type

Research Organisations

Links

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

Total cost

€ 9 200,00



ORTHOSERA GMBH

Austria

Net EU contribution

€ 46 000,00

Address

DR. KARL-DORREK-STRASSE 23-29
3500 Krems An Der Donau

SME

Yes

Region

Ostösterreich > Niederösterreich > Waldviertel

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

€ 46 000,00



UNIVERSITY COLLEGE LONDON

United Kingdom

Net EU contribution

€ 115 000,00

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

Total cost

€ 115 000,00



HOCHSCHULE RHEIN-WAAL-HSRW RHINE-WAAL UNIVERSITY OF APPLIED SCIENCES

Germany

Net EU contribution

€ 55 200,00

Address

MARIE CURIE STRASSE 1
47533 Kleve 

Region

Nordrhein-Westfalen > Düsseldorf > Kleve

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

€ 55 200,00



LLS ROWIAK LASERLABSOLUTIONS GMBH

 Germany

Net EU contribution

€ 18 400,00

Address

GARBSENER LANDSTRASSE 10
30419 Hannover 

SME 

Yes

Region

Niedersachsen > Hannover > Region Hannover

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

€ 18 400,00



CORTICALIS AS

 Norway

Net EU contribution

€ 27 600,00

Address

OSLO SCIENCE PARK, GAUSTADALLEEN 21

0349 Oslo 

SME 

Yes

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

€ 27 600,00



FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV

 Germany

Net EU contribution

€ 27 600,00

Address

HANSASTRASSE 27C

80686 Munchen 

Region

Bayern > Oberbayern > München, Kreisfreie Stadt

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost
€ 27 600,00



BIOFABICS LDA

 Portugal

Net EU contribution

€ 101 200,00

Address

**RUA ALFREDO ALLEN 455/461
4200-135 Porto** 

SME 

Yes

Region

Continente > Norte > Área Metropolitana do Porto

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
€ 101 200,00



SCINUS HOLDING BV

 Netherlands

Net EU contribution

€ 32 200,00

Address

**PROFESSOR BRONKHORSTLAAN 10 G 48
3723 MB Bilthoven** 

SME 

Yes

Activity type

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

Links

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

[HORIZON collaboration network](#) 

Total cost

€ 32 200,00



INSTYTUT PODSTAWOWYCH PROBLEMOW TECHNIKI POLSKIEJ AKADEMII NAUK

 Poland

Net EU contribution

€ 41 400,00

Address

UL. ADOLFA PAWINSKIEGO 5B
02-106 WARSZAWA 

Region

Makroregion województwo mazowieckie > Warszawski stołeczny > Miasto Warszawa

Activity type

Research Organisations

Links

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

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Total cost

€ 41 400,00

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Permalink: <https://cordis.europa.eu/project/id/824007>

European Union, 2025