

 Content archived on 2024-06-18



European stem cell consortium for neural cell replacement, reprogramming and functional brain repair

Fact Sheet

Project Information

NEUROSTEMCELLREPAIR

Grant agreement ID: 602278

[Project website](#) 

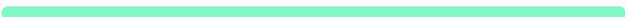
Project closed

Start date

1 October 2013

End date

30 September 2017



Funded under

Specific Programme "Cooperation": Health

Total cost

€ 8 186 684,46

EU contribution

€ 6 000 000,00

Coordinated by

UNIVERSITA DEGLI STUDI DI MILANO



This project is featured in...



Objective

Neurostemcellrepair aims at taking human stem cells through the final steps toward clinical application in cell replacement therapy for neurological disorders. PD will be taken as the prototypical disease because stem cell therapy is now close to clinical translation. Moreover, we will tackle next generation issues pertaining to stem cells at a basic level and develop new approaches and novel cell sources, validated at pre-clinical stages, for both PD and HD. The project teams represent a wide range of competences, including stem cell specialists, developmental neurobiologists, experts in neurodegeneration, scientists with links to the clinic and stem cell manufacturing/clinical validation. The research plan is constructed on exchange of tools, sharing of protocols and expertise and joint deliverables among the participants. We will address issues related to the control of progenitor proliferation and differentiation into authentic, functional and phenotypically stable dopaminergic or striatal neurons, and exploit new technology for cell reprogramming. We will develop strategies to obtain enduring donor cell engraftment in the host, including acquisition of specific neuronal identities and functional integration in the recipient brain. The therapeutic effect will be evaluated following transplantation in animal models of PD and HD. Cutting edge technologies will be guaranteed by the involvement of three SMEs, one industry and partners experienced in bioengineering, who will collectively provide a toolbox to deliver ontogenetic and reprogramming factors, small molecules and miRNA, immunoseparation strategies, in vivo monitoring of donor cell behaviour, scale up and GMP-compliant protocols. Ultimately, Neurostemcellrepair is expected to develop new cell sources based on cellular reprogramming, make significant advance towards stem cell therapy in HD, and close the gap between development and clinical implementation of stem cell replacement therapies for PD.

Fields of science (EuroSciVoc)

[natural sciences](#) > [biological sciences](#) > [neurobiology](#)

[medical and health sciences](#) > [medical biotechnology](#) > [cells technologies](#) > **[stem cells](#)**

[medical and health sciences](#) > [clinical medicine](#) > **[transplantation](#)**

[medical and health sciences](#) > [basic medicine](#) > **[neurology](#)**



Programme(s)

[FP7-HEALTH - Specific Programme "Cooperation": Health](#)

Topic(s)

[HEALTH.2013.1.4-1 - Controlling differentiation and proliferation in human stem cells intended for therapeutic use](#)

Call for proposal

FP7-HEALTH-2013-INNOVATION-1

[See other projects for this call](#)

Funding Scheme

[CP-FP - Small or medium-scale focused research project](#)

Coordinator



UNIVERSITA DEGLI STUDI DI MILANO

EU contribution

€ 1 482 229,07

Total cost

No data

Address

Via Festa Del Perdono 7

20122 Milano



Region

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#)

Participants (12)



MAX IV Laboratory, Lund University

 Sweden

EU contribution

€ 564 594,00

Address

Paradisgatan 5c
22100 LUND 

Region

Södra Sverige > Sydsverige > Skåne län

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#)

Total cost

No data



UNIVERSITATSKLINIKUM BONN

 Germany

EU contribution

€ 485 000,00

Address

VENUSBERG-CAMPUS 1
53127 Bonn 

Region
Nordrhein-Westfalen > Köln > Bonn, Kreisfreie Stadt

Activity type
Higher or Secondary Education Establishments

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

Total cost
No data



KAROLINSKA INSTITUTET

 Sweden
EU contribution
€ 523 200,00

Address
**Nobels Vag 5
17177 Stockholm** 

Region
Östra Sverige > Stockholm > Stockholms län

Activity type
Higher or Secondary Education Establishments

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

Total cost
No data



CARDIFF UNIVERSITY

 United Kingdom
EU contribution

€ 492 262,00

Address

NEWPORT ROAD 30 36
CF24 0DE Cardiff 

Region

Wales > East Wales > Cardiff and Vale of Glamorgan

Activity type

Higher or Secondary Education Establishments

Links

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

Total cost

No data



THE CHANCELLOR MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE

 United Kingdom

EU contribution

€ 246 393,00

Address

TRINITY LANE THE OLD SCHOOLS
CB2 1TN Cambridge 

Region

East of England > East Anglia > Cambridgeshire CC

Activity type

Higher or Secondary Education Establishments

Links

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

Total cost

No data



UNIVERSITA DEGLI STUDI DI TORINO



Italy

EU contribution

€ 416 990,00

Address

VIA GIUSEPPE VERDI 8

10124 Torino 

Region

Nord-Ovest > Piemonte > Torino

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



THE UNIVERSITY OF EDINBURGH



United Kingdom

EU contribution

€ 438 000,00

Address

OLD COLLEGE, SOUTH BRIDGE

EH8 9YL Edinburgh 

Region

Scotland > Eastern Scotland > Edinburgh

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



LAVISION BIOTEC GMBH

 Germany

EU contribution

No data

Address

ASTASTRASSE 14
33617 Bielefeld 

Region

Nordrhein-Westfalen > Detmold > Bielefeld, Kreisfreie Stadt

Activity type

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

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



INTEGRATED SYSTEMS ENGINEERING SRL

 Italy

EU contribution

€ 180 000,00

Address

Via Volturno CEDRI 80
20816 Brugherio 

Region

Nord-Ovest > Lombardia > Monza e della Brianza

Activity type

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

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



Roslin Cells Ltd.

United Kingdom

EU contribution

€ 402 451,93

Address

C/o Roslin Foundation, Wallace Building, Roslin BioCentre
EH25 9PP Roslin, Midlothian

Activity type

Research Organisations

Links

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

Total cost

No data



MILTENYI BIOTEC GMBH

Germany

EU contribution

€ 410 500,00

Address

FRIEDRICH EBERT STRASSE 68
51429 Bergish Gladbach

Region

Nordrhein-Westfalen > Köln > Rheinisch-Bergischer Kreis

Activity type

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

Links

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

Total cost

No data



LIFE AND BRAIN GMBH

 Germany

EU contribution

€ 358 380,00

Address

VENUSBERG-CAMPUS 1

53127 Bonn 

Region

Nordrhein-Westfalen > Köln > Bonn, Kreisfreie Stadt

Activity type

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

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data

Last update: 24 September 2017

Permalink: <https://cordis.europa.eu/project/id/602278>

European Union, 2025