



Organ-on-a-chip Drug screening device to tArget brain disease

Fact Sheet

Project Information

DIANA

Grant agreement ID: 899431

DOI

[10.3030/899431](https://doi.org/10.3030/899431)

Project closed

EC signature date

28 January 2020

Start date

1 November 2020

End date

30 April 2022

Funded under

EXCELLENT SCIENCE - European Research Council (ERC)

Total cost

No data

EU contribution

€ 150 000,00

Coordinated by

POLITECNICO DI MILANO



Italy

Project description

Brain organ-on-a-chip drug screening device

The number of patients affected by brain diseases like Alzheimer's and Parkinson's is expected to grow significantly in the next decades. The critical point in the slow development of new drugs is a three-phase process that currently requires 10-15 years and investment of EUR 1-3 billion, and a high failure rate of about 99.6% for Alzheimer's. The very high percentage of failure is based on a low quality of biological target validation assays, due to the blood-brain barrier (BBB) and the complexity of brain physiology making brain disease modelling a challenging task. The EU-funded project DIANA aims to demonstrate the technical and commercial feasibility of the integrated BBB-brain model in vitro, based on patented organ-on-a-

chip technology, providing the basis for a new generation of innovative devices. DIANA combines solid technological expertise and in-depth market knowledge provided by a consortium comprised of academic and industrial partners.

Fields of science (EuroSciVoc)

[medical and health sciences](#) > [basic medicine](#) > [pharmacology and pharmacy](#) > [drug discovery](#)

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

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

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

[engineering and technology](#) > [other engineering and technologies](#) > [microtechnology](#) > [organ on a chip](#)



Programme(s)

[H2020-EU.1.1. - EXCELLENT SCIENCE - European Research Council \(ERC\)](#)

MAIN PROGRAMME

Topic(s)

[ERC-2019-POC - ERC Proof of Concept Grant](#)

Call for proposal

[ERC-2019-PoC](#)

[See other projects for this call](#)

Funding Scheme

[ERC-POC-LS - ERC Proof of Concept Lump Sum Pilot](#)

Host institution



POLITECNICO DI MILANO

Net EU contribution

€ 100 000,00

Total cost

No data

Address

PIAZZA LEONARDO DA VINCI 32

20133 Milano

 Italy 

Region

Nord-Ovest > Lombardia > Milano

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Beneficiaries (2)



POLITECNICO DI MILANO

 Italy

Net EU contribution

€ 100 000,00

Address

PIAZZA LEONARDO DA VINCI 32

20133 Milano 

Region

Nord-Ovest > Lombardia > Milano

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



NEURO-ZONE SRL

 Italy

Net EU contribution

€ 50 000,00

Address

VIA LUDOVICO ARIOSTO 21

20091 BRESSO 

SME 

Yes

Region

Nord-Ovest > Lombardia > Milano

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: 22 September 2022

Permalink: <https://cordis.europa.eu/project/id/899431>

European Union, 2025