Therapeutic Artificial Cells based on Molecular Cages for Glioblastoma Treatment

Fact Sheet

Project Information

TherACCage
Grant agreement ID: 101059267

DOI
10.3030/101059267

Funded under
Marie Skłodowska-Curie Actions (MSCA)

Total cost
€ 0,00

EU contribution
€ 181 152,96

Coordinated by
UNIVERSITAT POLITECNICA DE VALENCIA
Spain

Project terminated on 16 January 2023

Start date
1 September 2023
End date
31 August 2025

Project description

Innovative artificial cell-based technology for glioblastoma treatment

Glioblastoma multiform (GBM) is the most common aggressive malignant brain tumour without an effective treatment. Around 220000 people die every year from GBM and current standard treatment relies on systemic chemotherapy, which has very limited efficacy and causes side effects. Funded by the Marie Skłodowska-Curie Actions programme, the TherACCage project aims to develop advanced nanosystems for GBM treatment, using artificial cells based on drug-loaded molecular cages. These artificial cells will be equipped with processing machinery enabling biomarker recognition in the GBM microenvironment and induction of drug
delivery in situ. The project objective is to develop new therapeutic technology while providing complementary scientific and transferable skills training to support independent young researcher careers.

Fields of science

[natural sciences > chemical sciences > organic chemistry]
[engineering and technology > nanotechnology]
[medical and health sciences > clinical medicine > oncology]

Keywords

Molecular Cages  Liposomes  Artificial Cells  Nanosystems  Nanomedicine
Anti-tumour effect  Glioblastoma

Programme(s)

HORIZON.1.2 - Marie Skłodowska-Curie Actions (MSCA)  MAIN PROGRAMME

Topic(s)

HORIZON-MSCA-2021-PF-01-01 - MSCA Postdoctoral Fellowships 2021

Call for proposal

HORIZON-MSCA-2021-PF-01

See other projects for this call

Funding Scheme

HORIZON-TMA-MSCA-PF-EF - HORIZON TMA MSCA Postdoctoral Fellowships - European Fellowships

Coordinator

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UNIVERSITAT POLITECNICA DE VALENCIA

Net EU contribution
€ 181 152,96

Address
Camino de vera sn edificio 3a
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Region
Este > Comunitat Valenciana > Valencia/València

Activity type
Higher or Secondary Education Establishments

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

Other funding
€ 0,00

Partners (1)

FUNDACION DE LA COMUNIDAD VALENCIANA CENTRO DE INVESTIGACION PRINCIPEFELIPE

Spain

Net EU contribution
€ 0,00

Address
Calle eduardo primo yufera 3
46012 Valencia

Region
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Activity type
Research Organisations

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

Other funding
€ 0,00

EC signature date 21 June 2022
Last update: 4 September 2022

Permalink: https://cordis.europa.eu/project/id/101059267

European Union, 2023