Exploiting Protein Complexes that Induce Cell-death

Fact Sheet

Project Information

EPIC

Grant agreement ID: 690939

Project website

DOI
10.3030/690939

Project closed

EC signature date
21 December 2015

Start date
1 January 2016

End date
31 December 2019

Funded under
EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

Total cost
€ 607 500,00

EU contribution
€ 607 500,00

Coordinated by
UNIVERSITY OF GALWAY
Ireland

Objective

The formation of specific protein complexes are key events in life-and-death decisions made by cells. Inappropriate decisions underpin a plethora of disease conditions from degenerative diseases to cancer while the role of the complexes in these processes make them important therapeutic targets. Our ability to develop small molecules to target death-inducing protein complexes has been hampered by an inability to measure complex formation in cells in real-time and by the absence of robust high-throughput assays for the discovery of new lead molecules that target these complexes.
The proposed network (EPIC) will address both of these problems by developing

new approaches to measure necrosome and apoptosome formation in real-time as well as new high-throughput and high-content screening assays using Fluorescence resonance transfer and split-luciferase technologies.
EPIC will conform with the H2020 work programme by integrating research activity, novel reagents and expertise across Europe and world through the mobility, knowledge transfer and training of experienced and early stage researchers from within and without the EU. EPIC will realise the potential of researchers through the development of new skill-sets, the transfer new skills between academia and industry, and the development of career opportunities for EU ESRs and ERs. A key part of this activity is the mobility of non-EU researchers and the inward transfer of essential knowledge from outside the EU to benefit EU-based research.
Establishment of EPIC through RISE will generate lead molecules with demonstrable utility and knowledge that will underpin applications to national funding agencies to sustain the communal effort beyond the life of the RISE award. It will also generate intellectual property that will enable the network to approach biotech and pharma to form academia-industry partnerships that will further develop small molecule leads as therapeutics.

Fields of science (EuroSciVoc)

engineering and technology > electrical engineering, electronic engineering, information engineering > electronic engineering > sensors > **biosensors**

natural sciences > biological sciences > biochemistry > biomolecules > **proteins**

medical and health sciences > clinical medicine > **oncology**

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

natural sciences > biological sciences > molecular biology > **structural biology**

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-2015 - Marie Skłodowska-Curie Research and Innovation Staff Exchange (RISE)

Call for proposal

H2020-MSCA-RISE-2015

See other projects for this call

Funding Scheme

MSCA-RISE - Marie Skłodowska-Curie Research and Innovation Staff Exchange (RISE)

Coordinator

UNIVERSITY OF GALWAY

Net EU contribution

€ 405 000,00

Total cost

€ 405 000,00

Address

UNIVERSITY ROAD
H91 Galway
Ireland

Region

Ireland > Northern and Western > West

Activity type

Higher or Secondary Education Establishments

Links

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

Participants (4)

GOETEBORGS UNIVERSITET

Sweden

Net EU contribution

€ 27 000,00

Address

VASAPARKEN
405 30 Goeteborg

Region

Södra Sverige > Västsverige > Västra Götalands län

Activity type

Higher or Secondary Education Establishments

Links

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

Total cost

€ 27 000,00

FUNDACION DE LA COMUNIDAD VALENCIANA CENTRO DE INVESTIGACION PRINCIPEFELIPE

Spain

Net EU contribution

€ 27 000,00

Address

CALLE EDUARDO PRIMO YUFERA 3
46012 Valencia

Region

Este > Comunitat Valenciana > Valencia/València

Activity type

Research Organisations

Links

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

Total cost

€ 27 000,00

VIB VZW

Belgium

Net EU contribution

€ 67 500,00

Address

SUZANNE TASSIERSTRAAT 1
9052 ZWIJNAARDE - GENT

Region

Vlaams Gewest > Prov. Oost-Vlaanderen > Arr. Gent

Activity type

Research Organisations

Links

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

Total cost

€ 67 500,00

PROTOQSAR 2000 SL

Spain

Net EU contribution

€ 81 000,00

Address

C SALVADOR FERRANDIS LUNA 45 PTA 23
46018 Valencia

SME

Yes

Region

Este > Comunitat Valenciana > Valencia/València

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

€ 81 000,00

Partners (1)

PARTNER

TARBIAT MODARES UNIVERSITY (INSTRUCTOR'S TRAINING UNIVERSITY)

Iran

Net EU contribution

€ 0,00

Address

INTERSECTION OF SHAHID CHAMRAN AND JALAL AL AHMAD HIGHWAY
14115 175 TEHRAN

Activity type

Higher or Secondary Education Establishments

Links

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

Total cost

€ 486 000,00

Last update: 15 August 2022

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