Mediation of stem cell identity and aging by proteostasis

Fact Sheet

Project Information

StemProteostasis

Grant agreement ID: 677427

Funded under
EXCELLENT SCIENCE - European Research Council (ERC)

DOI
10.3030/677427

EC signature date
28 June 2016

Closed project

Total cost
€ 1 500 000,00

EU contribution
€ 1 500 000,00

Coordinated by
UNIVERSITAT ZU KOLN

Germany

Project description

Protein homeostasis mechanisms during ageing

Proteins are central to all biological processes but are prone to misfolding, aggregation and damage, particularly as cells age. Proteostasis mechanisms, such as those involving chaperones and proteolytic systems like the proteasome, work together to monitor protein quality and repair or remove damaged or misfolded proteins. Funded by the European Research Council, the StemProteostasis project
focuses on the role of the proteasome in human embryonic stem cell (hESC) function. Researchers will investigate different proteostasis pathways in hESCs and somatic cells to understand how they impact stem cell exhaustion and tissue degeneration. Project findings will also provide important insight into the role of proteostasis in ageing and age-related diseases.

Fields of science

natural sciences > biological sciences > biochemistry > biomolecules > proteins > proteomics
medical and health sciences > medical biotechnology > cells technologies > stem cells
natural sciences > biological sciences > biochemistry > biomolecules > proteins > protein folding
medical and health sciences > basic medicine > physiology > homeostasis
natural sciences > biological sciences > biochemistry > biomolecules > proteins > enzymes

Programme(s)

H2020-EU.1.1. - EXCELLENT SCIENCE - European Research Council (ERC)  MAIN PROGRAMME

Topic(s)

ERC-StG-2015 - ERC Starting Grant

Call for proposal

ERC-2015-STG

See other projects for this call

Funding Scheme

ERC-STG - Starting Grant

Coordinator
UNIVERSITAT ZU KOLN

Net EU contribution

€ 1 500 000,00

Address
Albertus magnus platz
50931 Köln

Region
Nordrhein-Westfalen > Köln > Köln, Kreisfreie Stadt

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

Beneficiaries (1)
Other funding
€ 0,00

Last update: 23 August 2022

Permalink: https://cordis.europa.eu/project/id/677427

European Union, 2024