Microfluidic technology to help understand physical damage to brain cells

https://neurodegenerationresearch.eu/survey/microfluidic-technology-to-help-understand-physical-damage-to-brain-cells/

Principal Investigators

Prof Michael Breadmore

Institution

University of Tasmania

Contact information of lead PI
Country

Australia

Title of project or programme

Microfluidic technology to help understand physical damage to brain cells

Source of funding information

Australian Research Council

Total sum awarded (Euro)

€ 278,859

Start date of award

01/01/2015

Total duration of award in years

3

Keywords
Research Abstract

Understanding the organisation, structure and mechanisms of the human brain and nervous system remains one of the biggest challenges of science. This project aims to develop a new cell culture platform to form defined molecular networks of brain cells and to monitor changes throughout the network in response to a small localised injury within the network. This innovative platform will be used to help understand changes within cells in response to physical damage to networks of brain cells. This is one of the major causes of death and disability in developed nations, and is identified as a risk factor for a range of neurodegenerative diseases including Alzheimer’s, Parkinson’s and motor neuron disease.

Further information available at:

Types:
Investments < €500k

Member States:
Australia

Diseases:
N/A

Years:
2016

Database Categories:
N/A

Database Tags:
N/A