A novel neuroprotective mechanism in Alzheimer’s disease

https://www.neurodegenerationresearch.eu/survey/a-novel-neuroprotective-mechanism-in-alzheimers-disease/

Principal Investigators

Arne Ittner

Institution

University of New South Wales

Contact information of lead PI
Country

Australia

Title of project or programme

A novel neuroprotective mechanism in Alzheimer's disease

Source of funding information

Alzheimer's Australia Dementia Research Foundation

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€ 34,196

Start date of award

01/01/2015

Total duration of award in years

1

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Research Abstract
Alzheimer’s disease is characterised by loss of memory because of dying brain cells and brain atrophy. In addition, proteins deposit in the brain tissue forming amyloid plaques. The amyloid plaques contain short protein fragments that are toxic to brain cells, causing them to die, a process called ‘amyloid toxicity’. Recent discoveries have shown that the toxic signal of amyloid is caused by changes of brain cell molecules (i.e. components that make up the cell). However, it remains completely unknown whether there are also molecules that can inhibit or even block these toxic signals. During his fellowship, Dr Ittner will assess a novel molecule, which may protect brain cells from amyloid toxic signals. Dr Ittner aims at finding out how exactly this molecule protects brain cells from amyloid toxic signals. His project will close a gap in

knowledge of protective components in brain cells and will provide part of the understanding needed to design new ways for treating Alzheimer’s disease.

Further information available at:

https://www.dementiaresearchfoundation.org.au/researchers/arne-ittner-0

Types:
Investments < €500k

Member States:
Australia

Diseases:
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Years:
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