From brain maps to mechanisms: Modelling the pathophysiology of dementia

https://neurodegenerationresearch.eu/survey/from-brain-maps-to-mechanisms-modelling-the-pathophysiology-of-dementia/

Name of Fellow

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Funder

NHMRC

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Australia

Title of project/programme

From brain maps to mechanisms: Modelling the pathophysiology of dementia

Source of funding information

NHMRC

Total sum awarded (Euro)

€ 410,131

Start date of award

01/01/16

Total duration of award in years

4.0

The project/programme is most relevant to:

Alzheimer's disease & other dementias

Keywords

dementia | alzheimer disease | computer simulation | brain disease | brain ageing

Research Abstract

As the brain ages, the relationship between its structure and function also changes. In this

study, I will use detailed computational modelling and extensive analyses of brain dynamics to improve interventional strategies by: 1. Characterising healthy and unhealthy brain dynamics during ageing; 2. Classifying the various subtypes of pathological dynamics; and 3. Predicting pathological neurodegeneration by identifying the earliest signs of perturbations in healthy ageing.

Types:
Fellowships

Member States:
Australia

Diseases:
Alzheimer's disease & other dementias

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