

# Brain metal neurochemistry: mechanism-driven drug discovery for neurodegeneration

<https://neurodegenerationresearch.eu/survey/brain-metal-neurochemistry-mechanism-driven-drug-discovery-for-neurodegeneration/>

## **Name of Fellow**

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## **Institution**

## **Funder**

NHMRC

## **Contact information of fellow**

## **Country**

Australia

## **Title of project/programme**

Brain metal neurochemistry: mechanism-driven drug discovery for neurodegeneration

## **Source of funding information**

NHMRC

## **Total sum awarded (Euro)**

€ 578,818

## **Start date of award**

01/01/16

## **Total duration of award in years**

5.0

## **The project/programme is most relevant to:**

Alzheimer's disease & other dementias

## **Keywords**

alzheimer disease | metal metabolism | biomarkers | iron | protein biochemistry

## **Research Abstract**

Alzheimer's disease (AD) is a complex disease where certain proteins congeal in the brain and

metals accumulate. This project investigates the function of the proteins in microscopically transporting the metals. It will also look for tests that predict the onset of AD by measuring iron and iron related proteins by using special brain imaging (MRI), and measurements in spinal fluid. Finally, it will test drug candidates that target the metals, in animal models of AD, and in early clinical trials.

**Types:**

Fellowships

**Member States:**

Australia

**Diseases:**

Alzheimer's disease & other dementias

**Years:**

2016

**Database Categories:**

N/A

**Database Tags:**

N/A