

# The role of copper in Ubiquitin-dependent protein degradation in Alzheimer's disease

<https://neurodegenerationresearch.eu/survey/the-role-of-copper-in-ubiquitin-dependent-protein-degradation-in-alzheimers-disease/>

## **Name of Fellow**

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## **Institution**

## **Funder**

NHMRC

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## **Country**

Australia

## **Title of project/programme**

The role of copper in Ubiquitin-dependent protein degradation in Alzheimer's disease

## **Source of funding information**

NHMRC

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€ 399,335

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

Alzheimer's disease & other dementias

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alzheimer disease | amyloid precursor protein | protein degradation | ubiquitination | copper deficiency

## **Research Abstract**

Ubiquitin's are small proteins that tag other proteins in a process known as "Ubiquitination". Often this is to target them for degradation once they are no longer needed i.e. to take out the rubbish. This process is disrupted in Alzheimer's disease (AD), which may contribute to the disease. This project aims to find out if copper, an essential metal for life, is required for this process. Drugs that are designed to deliver copper to brain cells have been effective in small AD clinical trials.

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