

Investigating the toxic particles formed by the Alzheimer's disease protein amyloid-beta

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Funder

NHMRC

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Country

Australia

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Investigating the toxic particles formed by the Alzheimer's disease protein amyloid-beta

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The project/programme is most relevant to:

Alzheimer's disease & other dementias

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Research Abstract

Alzheimer's disease is a devastating neurodegenerative disease that currently affects 240 000 Australians. The protein called amyloid- β is found in deposits in the brains of Alzheimer's patients. The toxic form of this protein is thought to be small aggregated particles called 'oligomers'. This work aims to investigate the structure of these particles, the reason why they are toxic, as well as their interaction with the neuroprotective compound EGCG, which is found in green tea.

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