

The molecular basis of the innate response to oligomers of beta amyloid and alpha synuclein

<https://neurodegenerationresearch.eu/survey/the-molecular-basis-of-the-innate-response-to-oligomers-of-beta-amyloid-and-alpha-synuclein/>

Principal Investigators

Clare Bryant

Institution

University of Cambridge

Contact information of lead PI Country

United Kingdom

Title of project or programme

The molecular basis of the innate response to oligomers of beta amyloid and alpha synuclein

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Alzheimer's Research UK

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3.4

Keywords

Research Abstract

The innate immune response is our first line of defence against disease and protects the brain from infection. It appears to play an important role in the development of neurodegenerative disease switching from being protective to being destructive. The cells that are responsible for this response are called microglia and the aim of this project is to work out how they respond to the small clumps of proteins that cause Alzheimer's and Parkinson's disease as the number of clumps or size of clumps increases. This will be done by directly watching the receptors on the surface of microglia interacting with the protein clumps and then by following how these cells respond and signal. This should enable us to work out the molecular basis of the response, why

the response of microglia changes in the disease and how this might be prevented.

Further information available at:

Types:

Investments < €500k

Member States:

United Kingdom

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