Att hindra forskridandet av Alzheimers och andra demenssjukdomar. To prevent the spread of Alzheimer's and other dementia diseases

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Title of project or programme

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The Swedish Brain Foundation

Total sum awarded (Euro)

€ 108,814

Start date of award

01/07/2015

Total duration of award in years

2.5

Keywords
Research Abstract
The current project aims at understanding how Alzheimer's disease (AD) and other neurodegenerative diseases are progressive and gradually involve more and more of the brain and to find ways to inhibit or halt this progression.

Our specific aims are:

1. To continue to develop our models and investigative tools to always have a powerful set of tools to study intra- and extracellular events important for the spread and toxicity of misfolded proteins

2. To understand the mechanisms of neuron-to-neuron spread of aggregates of misfolded proteins

3. To study how the transferred, protein aggregates cause adverse effects in cells and the interaction with factors like aging and inflammation

4. To search for substances to reduce or stop the spread of the neurodegenerative protein aggregates

Although this project will deal with basic cellular and molecular biochemistry related to AD pathogenesis in model system, the result will have great practical implications. The result of this study will link the cell communication system and AD pathogenesis. Moreover, our cell model system with human neuronal cells will have great practical implications on AD pathogenesis since these cells may be more physiologically comparable to human neurons than for example cells from mice. This project has the potential to find the mechanisms causing the progression of the disease; this can help us to find new and relevant avenues for future biomarker and treatment strategies. Altogether, this is an innovative project with a high probability of success, and has potential to yield new and important knowledge on AD. We are currently in a unique position to accomplish this project.

Further information available at:

Types:
Investments < €500k

Member States:
Sweden

Diseases:
N/A

Years:
2016

Database Categories:
N/A

Database Tags:
N/A