INSTALZ: Genomic Instability in Alzheimer’s Disease and Related Disorders: a Single-Cell Approach

https://neurodegenerationresearch.eu/survey/instalz-genomic-instability-in-alzheimer%c2%92s-disease-and-related-disorders-a-single-cell-approach/

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Multiple

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Country

France|United Kingdom|Belgium|Denmark|Sweden

Title of project or programme

INSTALZ: Genomic Instability in Alzheimer’s Disease and Related Disorders: a Single-Cell Approach

Source of funding information

JPND-JPcofuND

Total sum awarded (Euro)

€ 1,837,608

Start date of award

01/01/2016

Total duration of award in years

3.0

The project/programme is most relevant to:

Alzheimer's disease & other dementias

Keywords
Research Abstract

Increasing evidence suggests that the genetic information in our bodies can vary from cell to cell. Such variation has also been found in the brain, although its consequences for brain

function or disease remain largely unknown. In this project, we will study the role of genomic instability in Alzheimer’s disease and related tauopathies. The INSTALZ consortium aims to understand how altered stability of the neuronal genome in the developing and adult brain determines the risk of developing these chro- nic disorders in late adulthood. In particular, we will investigate how and when during life this cell-to-cell genomic variation could be generated by applying single-cell sequencing of neurons derived from patient brains and several mouse and fly models. The expected im- pact is to genetically explain the pathogenesis of a consistent part of sporadic cases, for which no pathogenic cause is yet known and to discover the underlying molecular me- chanisms that will lead to new early therapeutic tools.

Lay Summary
Further information available at:

Types:
Investments > €500k, JPND Projects

Member States:
Belgium, Denmark, France, JPND, Sweden, United Kingdom

Diseases:
Alzheimer's disease & other dementias

Years:
2016

Database Categories:
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