

EADB: A European DNA bank for deciphering the missing heritability of Alzheimer's disease

<https://neurodegenerationresearch.eu/survey/eadb-a-european-dna-bank-for-deciphering-the-missing-heritability-of-alzheimer%20s-disease/>

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Institution

Multiple

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Country

France|Germany|Finland|Italy|Netherlands|Sweden|United Kingdom|Australia

Title of project or programme

EADB: A European DNA bank for deciphering the missing heritability of Alzheimer's disease

Source of funding information

JPND-JPcofuND

Total sum awarded (Euro)

€ 3,644,713

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

Understanding the genetics of Alzheimer's disease (AD) is one of the best ways of improving our knowledge of the disease's underlying pathophysiological processes. Indeed, genetic factors account for up to 70% of the attributable risk in common forms of AD. The advent of genomic approaches has led to the characterization of 26 genetic determinants. However, it has

been estimated that less than 50% of the AD genetic attributable risk has been characterised. Substantial additional efforts are thus still needed to explore the AD genetic landscape. However, exhaustively characterising the genetic factors of AD will require analysing large populations of cases and controls. Our objective is thus to significantly increase the generation of genetic data via the creation of a European Alzheimer's Disease DNA BioBank (EADB). Our project will collate 31,911 AD cases and 40,802 controls from 11 countries. This initiative will increase the number of AD samples available for genetic studies in Europe by more than 4-fold and worldwide by almost 2-fold. In parallel, the EADB will collect DNA samples from Europe's largest longitudinal cohort of cases suffering from mild cognitive impairment (9,109 cases), with a view to identifying genetic markers that modulate the rate of disease progression and cognitive decline.

Lay Summary

Further information available at:

Types:

Investments > €500k, JPND Projects

Member States:

Australia, Finland, France, Germany, Italy, JPND, Netherlands, Sweden, United Kingdom

Diseases:

Alzheimer's disease & other dementias

Years:

2016

Database Categories:

N/A

Database Tags:

N/A