## Design and Optimisation of New Chemical Entities that Prevent the Neurotoxic Oligomerization and Misfolding of both betaamyloid and tau Proteins: A Disease Modifying Therapeutics Approach for Alzheimer's Dementia

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Country
United Kingdom
Title of project or programme
Design and Optimisation of New Chemical Entities that Prevent the Neurotoxic Oligomerization and Misfolding of both beta-amyloid and tau Proteins: A Disease Modifying Therapeutics Approach for Alzheimer's Dementia

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The Wellcome Trust
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## The project/programme is most relevant to:

Alzheimer's disease \& other dementias

## Keywords

## Research Abstract

Numerous studies support a causative role for b-amyloid (A) and tau in the aetiopathogenesis of Alzheimer's disease (AD).1,2 These proteins tend to abnormally clump ,3,4 and such protein misfolding processes give rise to neurotoxic aggregates of b-amyloid ( plaques ) and tau ( tangles ) the pathological hallmarks of AD. 5 In vitro studies have verified that Ab is significantly neurotoxic when in small aggregates (dimers, trimers and other oligomers).6,7,8 Since diseasemodifying (in preference to merely symptomatic) drugs represent the most desirable therapeutic approach to AD,9 protein misfolding of A and tau represents a leading target in the rational design of a disease-modifying drug. 1

## Lay Summary

## Further information available at:

## Types:

Investments > €500k

## Member States:

United Kingdom

## Diseases:

Alzheimer's disease \& other dementias

## Years:

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## Database Categories: <br> N/A

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