

# High-throughput genotyping of rare variants identified through next-generation sequencing of Alzheimer's disease candidate genes

<https://neurodegenerationresearch.eu/survey/high-throughput-genotyping-of-rare-variants-identified-through-next-generation-sequencing-of-alzheimers-disease-candidate-genes/>

## **Name of Fellow**

Christopher Medway

## **Institution**

## **Funder**

Alzheimer's Research UK

## **Contact information of fellow**

## **Country**

United Kingdom

## **Title of project/programme**

High-throughput genotyping of rare variants identified through next-generation sequencing of Alzheimer's disease candidate genes

## **Source of funding information**

Alzheimer's Research UK

## **Total sum awarded (Euro)**

€ 137,446

## **Start date of award**

01/01/13

## **Total duration of award in years**

3.3

## **The project/programme is most relevant to:**

Alzheimer's disease & other dementias

## **Keywords**

**Research Abstract**

Since 2006 the Nottingham Alzheimer's Research UK (ARUK) centre has developed a strong working relationship with the Mayo Clinic, Florida headed by Prof Steve Younkin (SY). The support of Alzheimer's Research UK has been instrumental in this partnership; funding Kevin Morgan (KM) to visit the Mayo Clinic and Olivia Belbin (OB) to undertake a two year post-doctoral position.

The strength of this collaboration is a 'bank' of over 10,000 patient samples (one of the largest in the world) – an ideal resource for large genetic association studies; as exemplified by our joint publications on the 'top' 25 AD genes to date. With OB having completed her position in 2010, there is an opportunity for myself (CM) to continue this relationship.

We plan to utilise the shared resource to perform high-throughput replication studies of common and rare variants currently being discovered through our targeted resequencing of Alzheimer's disease candidate genes. As 6-months funding has already been committed by SY at the Mayo Clinic, we are applying for 2.5 years further funding; 6-months matched funding for one year at the Mayo Clinic, which will be preceded by 6-months preparation in the UK and proceeded by 1.5 years back in the KM lab.

**Types:**

Fellowships

**Member States:**

United Kingdom

**Diseases:**

Alzheimer's disease & other dementias

**Years:**

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**Database Categories:**

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**Database Tags:**

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