

# Cell-type specific changes in gene-networks in the human brain: towards a selective Alzheimer therapeutic target

<https://neurodegenerationresearch.eu/survey/cell-type-specific-changes-in-gene-networks-in-the-human-brain-towards-a-selective-alzheimer-therapeutic-target/>

## Principal Investigators

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## Institution

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## Contact information of lead PI

### Country

Netherlands

## Title of project or programme

Cell-type specific changes in gene-networks in the human brain: towards a selective Alzheimer therapeutic target

## Source of funding information

ZonMw

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€ 273,304

## Start date of award

01/05/2014

## Total duration of award in years

3

## Keywords

### Research Abstract

We aim at identifying gene regulatory networks, based on molecular changes in microglia and astrocytes acutely isolated from post-mortem brains of controls and AD patients. We will start with tissue sampling of post mortem non-demented control and AD brains, and isolation of astrocytes and microglia followed by extraction of RNA. The RNA expression profiles of the different cell-types will be determined using RNA sequencing, which will be performed by our

partner Pfizer (in collaboration with the Boddeke and Hol labs), together we will also perform the bioinformatics analysis. The major deliverables of the proposal will contain the most detailed account of molecular changes in glia during AD pathogenesis, novel drug targets, and potential novel biomarkers.

**Further information available at:**

<http://www.zonmw.nl/nl/projecten/project-detail/cell-type-specific-changes-in-gene-networks-in-the-human-brain-towards-a-selective-alzheimer-therap/samenvatting/>

**Types:**

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