# Investigating a-synuclein dependent neurodegeneration in two novel transgenic mouse lines modeling increased aggregation and lack of age-dependent trophic a-synuclein signalling

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#### **Principal Investigators**

Louise Berkhoudt Lassen

Institution

Aarhus Universitet

## Contact information of lead PI Country

Denmark

### Title of project or programme

Investigating a-synuclein dependent neurodegeneration in two novel transgenic mouse lines modeling increased aggregation and lack of age-dependent trophic a-synuclein signalling

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Lundbeckfonden

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€ 282,509

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01/12/2015

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3

#### Keywords Research Abstract

Alpha-synuclein's (a-syn) native state changes in the course of neurodegenerative

synucleinopathies where it ultimately gets deposited in intracellular Lewy-like inclusions as filamentous aggregates. Soluble oligomeric aggregates are formed in the process of aggregation and are considered toxic species that cause a range of cell-autonomous effects and tissue responses thereby being responsible for the spreading degeneration of nerve cells characterizing the synucleinopathies. We have demonstrated that p25a stimulates aggregation of a-syn so we generated a mouse model of enhanced oligomer formation by expressing human p25a in forebrain neurons together with human a-syn from the Thy1 promoter (model I – Rosa26-p25a/Nex-Cre/Thy1-AS).

# Further information available at:

**Types:** Investments < €500k

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**Diseases:** N/A

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