

3-year postdoc position: Effects of alpha-synuclein on electrophysiology and calcium in Parkinson's disease

Research Area and Project Description

The Jensen Group has recently made several progresses to understand the effects of intracellular alpha-synuclein aggregates on cellular homeostasis and been awarded a larger 5 year grant to investigate these processes. The aim of the project is to progress our understanding of the pathophysiological effects of alpha-synuclein on neuronal calcium levels and study pathways to remedy such effects.

To achieve this aim, combined electrophysiological and in vivo calcium imaging approaches will be performed in studies also comprising histochemical, biochemical and behavioural analyses.

The applicant will perform electrophysiological experiments in isolated neurons, acute and organotypic brain slice cultures and conduct fluorescence based cytosolic calcium measurements in primary neurons, brain slice cultures and in vivo using cranial window techniques.

Specific Competences

- Appointment in this position requires a PhD degree in neuroscience or related subjects.
- Previous experience in electrophysiology in vivo or in vitro, and possibly in vivo calcium imaging.
- The successful applicant is expected to be able to manage the project, develop novel technical approaches, conduct firm, kind and thorough supervision, and be a good team player.

Place of Employment and Place of Work

DANDRITE is hosted by Aarhus University and is funded by Lundbeckfonden and Aarhus University. DANDRITE is an interdisciplinary research centre affiliated with two faculties at Aarhus University, the Faculty of Health and the Faculty of Science and Technology. The centre has ties to Aarhus University Hospital. The project is led by Professor Poul Henning Jensen and the workplace address is: Department of Biomedicine, Jensen Group - Neurodegenerative Disease Laboratory, Ole Worms Allé 3, Bldg 1171, 8000 Aarhus C, Denmark.

Formalities

- The postdoctoral position is a 3-year fixed-term employment, full-time position with 37 hours per week.
- Preferential starting date is from May 2017, or as soon as possible thereafter..

Contacts

Prospective candidates are encouraged to contact Professor Poul Henning Jensen, e-mail: phj@biomed.au.dk.

Application deadline

All applications must be made online and received by:
31.03.2017 [Apply online via full ad.](#)