THREE POSTDOCTORAL POSITIONS
IN MOLECULAR AND TRANSLATIONAL NEUROSCIENCE AT DANDRITE

The Danish Research Institute of Translational Neuroscience – DANDRITE (dandrite.au.dk) is the Danish node of the Nordic-EMBL Partnership for Molecular Medicine. A call is open at DANDRITE for three postdoctoral positions

DANDRITE investigates molecular and translational aspects of intercellular signaling in relation to neuroscience and neurological and psychiatric disorders. DANDRITE offers a thriving and international research environment with many PhD students and postdocs. Access to state-of-the-art laboratory facilities and research infrastructures are available, such as for membrane protein production, the development and characterization of transgenic animal models, a full range of imaging tools including PET imaging, two-photon, confocal laser scanning and high content microscopy, membrane protein crystallography, a TITAN-Krios electron microscope facility, a solution and solid-state NMR facility. Soft and hard X-ray synchrotrons as well as upcoming XFEL and neutron radiation facilities are also within short distance (Aarhus, Hamburg, Lund).

In this call DANDRITE seeks three postdoctoral researchers, each for two-year contracts (with a possibility for further extension) for the following fields of research:

Postdoc 1. Structure and function of membrane transport proteins
The Nissen laboratory investigates structure-function relationships of membrane transporters with core activities in X-ray crystallography and electrophysiology. A post-doctoral position is available for studies of the structure and function of membrane proteins, in particular ion pumps and neurotransmitter transporters and their regulatory complexes in the membrane. A background in membrane protein studies is required, preferably in eukaryotes, and the candidate must demonstrate good experience with e.g. X-ray crystallography, electrophysiology, or chemical biology. For further information on this position, contact professor Poul Nissen, pn@mb.au.dk

Postdoc 2. Synapse biology in health and disease
The Nykjær laboratory applies cell biology and mouse models to investigate sorting/trafficking and signalling in nerve cells as mediated by sortilin receptors. A postdoctoral position is vacant for studies of sortlin/Vps10p-domain receptors in synapse biology and neuronal wiring in psychiatric and neurodegenerative disorders. The successful applicant will have a strong background in neurobiology and significant experience from work with transgenic mouse models. Profound skills in immunohistology, imaging techniques, stereotactic procedures, and in characterization of neurodevelopmental phenotypes are advantageous. For further information on this position, contact professor Anders Nykjær, an@biokemi.au.dk.

Postdoc 3. Animal models of α-synuclein dependent neurodegeneration
The Jensen laboratory investigates pathogenic mechanisms in Parkinson-like diseases, so-called alpha-synucleinopathies, at the molecular, cellular and animal levels. The project is focused on establishing and investigating therapeutic strategies in neurodegenerative mouse models. One aim is to develop models based on stereotactic injection of preformed protein aggregates into the brain parenchyma. Experimental techniques span from classical biochemistry over cell biology to transgenic animal models. For further information on this position, contact professor Poul Henning Jensen, phj@biokemi.au.dk.

Applications should target the specific positions (1, 2 or 3) and contain the following:

- Cover letter summarizing past research accomplishments and the motivation to apply for the specific position (max 1 page)
- CV with a complete list of publications, titles of talks and posters presented, and international meetings attended.
- Up to three reference letters.

Documents should be submitted electronically at http://www.au.dk/stillinger/nat/vip with a deadline on 1. September 2013 at midnight

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