

DANDRITE encounters...

New activities in neuroscience at Aarhus University

Field of expertise Techniques Collaborations Available student projects

The Danish Research Institute of Translational Neuroscience - DANDRITE
Nordic EMBL Partnership for Molecular Medicine

9 February 2015 from 14:00-16:00

The Physiology Auditorium, Aarhus University, building 1162, room 013, Ole Worms Allé, Aarhus

14:00 Welcome

14:05 Anne von Philipsborn group

dandrite.au.dk/philipsborn



Circuit neuroscience and behavioural genetics in Drosophila

We are interested in how the nervous system controls behaviour- at the level of genes, neurons and circuits. Our model system is courtship behaviour in Drosophila. By studying the love life of the tiny fruitfly, we aim at understanding general principles of motor control and patterning as well as behavioral motivation and coordination.

14:30 Keisuke Yonehara group

dandrite.au.dk/yonehara



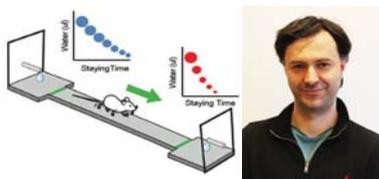
Function and dysfunction of motion-sensitive circuits in the visual system

Our ultimate goal is to understand the function of neuronal circuits in adults, focusing on the role of cell types, and to understand the genetic mechanism of how those neuronal circuits are assembled during development. The mouse visual motion circuits, particularly the retina and its direct brain target the superior colliculus, provides us with an approachable substrate to work towards this goal. We perform cell-type-specific experiments that require a wide spectrum of experimental approaches from molecular biology, genomics, genetics, electrophysiology, multi-photon functional imaging, trans-synaptic viral tracing, and behavioral analysis.

14:55 Break

15:10 Duda Kvitsiani group

dandrite.au.dk/kvitsiani

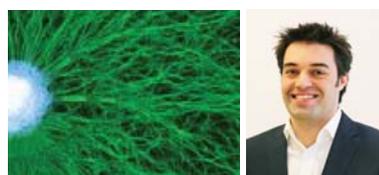


Molecular and circuit basis of effort based decision making

Humans as well as animals routinely assign greater value to objects or actions obtained by bigger effort, observation that we always take for granted but know little of what biological function it serves or how it arises. Our goal is to understand this phenomenon by probing molecular and circuit basis of it in carefully designed behavioural tasks.

15:35 Mark Denham group

dandrite.au.dk/denham



Modelling Human Neural Development and Disease with Stem Cells

Our laboratory is interested in understanding how the nervous system develops and the processes involved in neurodegeneration. To achieve this we reprogram patient-derived somatic cells back into stem cells to develop diseased cell lines for modelling disorders such as Parkinson's disease.

16:00 Drinks & interaction

