



DNC Seminar

STRESS ON THE BRAIN: IMPACT ON CORTICAL MICRONETWORKS

Kimmo Jensen

Professor, forskningsoverlæge, dr.med.

Det Sundhedsvidenskabelige Fakultet

Århus Universitet

**Wednesday 1st of June
15.15-16.15**

Palle Juul-Jensen Auditorium,
Building 10G, Århus Sygehus, NBG

SYNOPSIS:

Cortical networks in the mammalian brain are susceptible to various cellular stressors, which may cause functional perturbations in the individual neurons. We are studying the properties of the cortical 'clock-work' cells, also known as GABAergic interneurons. We focus on rodent models of behavioral stress, or transgene overexpression of disease-causing proteins, which are accompanied by depressive-like behaviors. In cortical networks from these animals, we find a striking GABAergic synaptopathy. This distinct synaptopathy can be reversed by pharmacological antidepressant treatment for at least 4 weeks. We believe that such a synapse dysfunction is a salient feature of neuronal stress conditions.

ALL ARE WELCOME

DNC offers refreshments afterwards

www.neuroforskning.dk