



## DNC Seminar

### **"DISCONNECTING HAPPINESS, DEPRESSION AND MRI-DEFINED WHITE MATTER LESIONS"**

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**Wednesday 3<sup>rd</sup> of March, 14.30-15.30**

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

#### **SYNOPSIS:**

Cerebral white matter lesions (WMLs) are believed to play an important role in a subset of patients with late-life major depression by affecting the white matter structure in circuitries essential for mood and cognition. However, the relation between lesion characteristics, their interference with specific neuronal pathways, and disease remains largely unknown. During the last decade, advances in MRI, such as diffusion tensor imaging (DTI) have enabled us to study the microstructural integrity of the brain tissue in vivo by reconstructing white matter trajectories - a technique known as tractography.

In a recent PhD study, we used DTI tractography to assess pathways affected by WMLs in order to describe the localization and impact of WMLs on cerebral white matter structure in patients with late-onset MD and non-depressed controls. Results from this project will be presented.

**ALL ARE WELCOME**

**DNC offers refreshments afterwards**

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