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The NO-Age and NO-AD Seminar Series # 73

The central role of intraneuronal amyloid-beta and the entorhinal cortex in Alzheimer's disease

by

Dr. Asgeir Kobro-Flatmoen

K.G. Jebsen Center for Alzheimer's Disease, NTNU, Trondheim, Norway

How noradrenaline keeps different memories apart

by

Dr. Hua Hu

Department of Molecular Medicine, University of Oslo, Norway

10:00-12:00 (CET), Tuesday, 23 April 2024

Location: Ahus Room: S305.019, Akershus University Hospital

On-line:

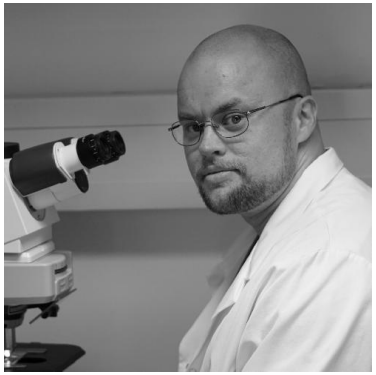
https://uio.zoom.us/webinar/register/WN_ptIyw_LTQG-0ibDEO1Lfvw

Organizers:

Evandro F. Fang (UiO), Jon Storm-Mathisen (UiO), Asgeir Kobro-Flatmoen (NTNU), Lene Juel Rasmussen (KU), W.Y. Chan (CUHK)

Queries: e.f.fang@medisin.uio.no

Previous recorded talks are available here: https://noad100.com/videos-previous-events/



Name: Dr. Asgeir Kobro-Flatmoen
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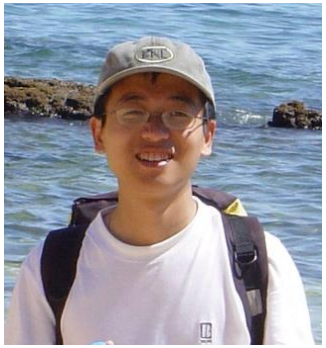
Speaker: Dr. Asgeir Kobro-Flatmoen

Title: The central role of intraneuronal amyloid-beta and the entorhinal cortex in Alzheimer's disease (tentative)

Abstract:
To address these questions Kobro-Flatmoen uses animal models, cell culture models and human brain tissue.

Biography:
Dr. Asgeir Kobro-Flatmoen is interested in brain function and malfunction and have a particular interest in neurodegeneration. His main focus concerns the how and why Alzheimer's disease develops, a disease known to heavily target the medial temporal lobe memory system and in particular the entorhinal cortex. Three questions are currently his main focus: (1) Which neurons show the first sign of subtle pathological change? (2) What are the unique features of these neurons? (3) Are certain types of neurons responsible for spreading the disease to other anatomically connected regions, or do these latter become affected in an independent process?



Name: Dr. Hua Hu
Department of Molecular Medicine,
University of Oslo, Norway

Email: huah@medisin.uio.no

Speaker: Dr. Hua Hu

Title: How noradrenaline keeps different memories apart

Abstract:
Neurons in the mammalian cortex can be divided into two broad groups: excitatory neurons that release glutamate and inhibitory interneurons that release γ-aminobutyric acid (GABA). Although interneurons only represent a small fraction of the total neuronal population, they make important contributions to cortical neuronal network activities associated with meaningful behavior. In my presentation, I will describe how the modulation of interneurons by noradrenaline reorganizes hippocampal neural network dynamics and the implication of this modulation in the formation of episodic memories.

Biography:
Dr. Hu received his PhD degree in neurophysiology from the University of Oslo in 2007. Subsequently, He acquired his postdoctoral training at the University of Freiburg in Germany and the Institute of Science and Technology in Austria. He was appointed as an associate professor by the University of Oslo in 2018.