Centre de Neurosciences Psychiatriques

CNP SEMINARS

ANNOUNCEMENT

Friday, June 25th 2021, 14:00 – 15:30

Neural stem cells as biomarkers of cognitive aging and dementia

Dr Sandrine Thuret
King’s College London | Institute of Psychiatry, Psychology & Neuroscience | Basic & Clinical Neuroscience Department
Head of the Neurogenesis & Mental Health Laboratory | Reader/Associate Professor in Neuroscience & Mental Health | Head of the Cells & Behaviour Unit | Deputy Head of the Basic & Clinical Neuroscience Department

Adult hippocampal neurogenesis is implicated in memory formation and mood regulation. The Thuret lab investigates environmental and molecular mechanisms controlling the production of these adult-born neurons and how they impact mental health.

We study neurogenesis in healthy ageing as well as in the context of diseases such as Alzheimer’s and depression. By approaching neurogenesis in health and disease, the strategy is two folds: (i) Validating the neurogenic process as a target for prevention and pharmacological interventions. (ii) Developing neurogenesis as a biomarker of disease prediction and progression.

In this talk, I will focus on presenting some recent human studies demonstrating how hippocampal neural stem cells fate can be used as biomarkers of cognitive aging and dementia.

Invited by Nicolas Toni
nicolas.toni@chuv.ch

Related publications

Adult Hippocampal Neurogenesis in Major Depressive Disorder and Alzheimer’s Disease.
https://doi.org/10.1016/j.molmed.2020.03.016

Lifestyle mediates the role of nutrient-sensing pathways in cognitive aging: cellular and epidemiological evidence.
https://www.nature.com/articles/s42003-020-0844-1

The role of circulatory systemic environment in predicting interferon-alpha-induced depression: The neurogenic process as a potential mechanism.
https://doi.org/10.1016/j.bbi.2019.06.018

Inter-individual variation in genes governing human hippocampal progenitor differentiation in vitro is associated with hippocampal volume in adulthood.
https://www.nature.com/articles/s41598-017-15042-2

This event will take place on a virtual space on Friday, June 25th 2021 at 14:00 through the link:

https://chuv.webex.com/chuv/j.php?MTID=m365b9d5087a72eb292e87a63edc8922a

Meeting number (access code): 137 865 6576
Meeting password: dKVS3ZZkg82