



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

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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

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Related publications

[Adult Hippocampal Neurogenesis in Major Depressive Disorder and Alzheimer's Disease.](#)
Berger T, Lee H, Young AH, Aarsland D, Thuret S. *Trends Mol Med.* 2020 Sep;26(9):803-818.
<https://doi.org/10.1016/j.molmed.2020.03.010>

[Lifestyle mediates the role of nutrient-sensing pathways in cognitive aging: cellular and epidemiological evidence.](#)
de Lucia C, Murphy T, Steves CJ, Dobson RJB, Proitsi P, Thuret S. *Nat Commun Biol.* 2020 Apr 2;3(1):157.
<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.](#)
Borsini A, Pariante CM, Zunszain PA, Hepgul N, Russell A, Zajkowska Z, Mondelli V, Thuret S. *Brain Behav Immun.* 2019 Oct;81:220-227.
<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.](#)
Powell TR, Murphy T, Lee SH, Duarte RRR, Lee HA, Smeeth D, Price J, Breen G, Thuret S. *Sci Rep.* 2017 Nov 8;7(1):15112.
<https://www.nature.com/articles/s41598-017-15042-z>

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