



Psychiatry and Neuroscience Seminar Series 2022



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(Host H Rebolz)

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Molecular Dissection of Selective Neuronal Vulnerability in Alzheimer's Disease

Friday, March 4th, 2022, noon

Room D Levy, 102-108 rue de la santé - 75014 Paris & VISIOCONFERENCE

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Like almost all neurodegenerative diseases, Alzheimer's disease in its earliest stages only affects very specific sets of neurons. In the majority of patients, neurons from the layer II of entorhinal cortex (ECII) are the first ones to accumulate pathological lesions and die. These neurons are crucial for assembling higher-order sensory information into new memories. Using cell-type specific profiling techniques, and systems-level functional genomics, we demonstrated that ECII neurons possessed intrinsic features that could make them more vulnerable (Roussarie, Yao et al. Neuron, 2020). We now want to continue exploring vulnerability to uncover the earliest events leading to neurodegeneration.

Keywords:

Cellular diversity, Neuronal drivers, Neuroscience, in vitro model

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