

## Neuroscience Seminar Series

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**Friday, March 23<sup>th</sup>, 2018 at 11:30**

Salle des Conférences (R229)

Centre Universitaire des Saints-Pères

45 rue des Saints-Pères, 75006 Paris

**Christian Lüscher**

*Professor*

*Université de Genève*

### *Dopamine neuron self stimulation as a model of drug addiction*

*We propose addiction model based on optogenetic dopamine neuron self-stimulation (oDASS) of the ventral tegmental area (VTA). We show that oDASS leads to neural and behavioral adaptations typically observed after prolonged drug exposure, including compulsive self-stimulation despite negative consequences. We demonstrate the power of oDASS to investigate molecular and cellular alterations in identified neurons of a disease relevant neural circuit with the goal to reveal the mechanism underlying individual vulnerability to drugs.*

Those interested in meeting with the speaker please contact  
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