



INSTITUT PARIS DESCARTES  
NEUROSCIENCES  
COGNITION



FÉDÉRATION DE RECHERCHE EN  
NEUROSCIENCES

## Neuroscience Seminar Series

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**Friday, May 27<sup>th</sup>, 2016 at 11:30**

Salle des Conférences (R229)

Centre Universitaire des Saints-Pères

45 rue des Saints-Pères, 75006 Paris

### **David Sulzer**

*Professor, Depts. Psychiatry, Neurology, Pharmacology  
Columbia University, NY, USA*

### *Autophagy in CNS synapses*

*“Autophagy” is used to mean the degradation by a cell of its own components within lysosomes. Not long ago, this process was widely accepted to be absent from neurons, but recently the regulation of neuronal autophagy has been implicated in an enormous range of normal and disease mechanisms. We have identified autophagic regulation of presynaptic and postsynaptic function, including the ability to degrade synaptic vesicles and thereby regulate neurotransmitter release. The normal net pruning of cortical synapses over development is apparently due in part to neuronal autophagic pathways, and disturbances in this process may provide for convergent pathways that underlie central aspects of autism and forms of epilepsy.*

Those interested in meeting with the speaker please contact

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*Les Sciences de l'Homme et de la Santé*