



## Psychiatry and Neuroscience Seminar Series

### Pr James H HURLEY

(Host T GALLI)



*Dept of Molecular and Cell Biology  
California Institute Quantitative Biosciences  
University of California, Berkeley, USA*

## Atomistic Autophagy: The Molecular Choreography of Cellular Self-Digestion

**Friday June 8<sup>th</sup>, 2018, 12 pm**

Room R04-45, 102-108 rue de la santé - 75014 Paris

**Pr James H HURLEY**

**Dept of Molecular and Cell Biology, University of California, Berkeley, USA**

The interplay between proteins and membrane lipids is central to almost every aspect of cell biology. This laboratory is interested in fundamental questions of how the interactions between proteins and membranes determine cell and organelle shape and the evolution of shape over time, how protein-membrane interactions turn on and off the signals that control essential cell processes, and how pathogens such as HIV-1 subvert and co-opt these interactions. The lab philosophy is to use a battery of powerful approaches to uncover molecular mechanism. This might mean cryoelectron microscopy, x-ray crystallography, single molecule spectroscopy, mass spectrometry, biochemical reconstitution, or live-cell imaging. We do it all. Training in the Hurley lab entails both a buy-in to our interdisciplinary approach and mastery of at least two different major technical disciplines.

*James Hurley won the 2014 Neurath Award from the Protein Society for a unique, recent contribution to basic science.*