



中国科学院生物物理研究所

贝时璋讲座

报告题目: **Nanoscale organization of the synapse**

报告人: Meunier, Frederic Andre

报告时间: 2019年11月27日上午10:00

报告地点: 9408会议室

主持人: 孙坚原研究员

报告人简介

Dr. Meunier's laboratory focuses on the molecular events that govern vesicular trafficking within presynaptic nerve terminals and neurosecretory cells. He uses single molecule imaging to track botulinum neurotoxin interaction with the neuronal membrane, and to uncover the change in presynaptic nanoscale organization occurring during neurotransmitter release (exocytosis and endocytosis).



1. Padmanabhan P, Bademosi AT, Kasula R, et. al., (2019). Need for speed: Super-resolving the dynamic nanoclustering of syntaxin-1 at exocytic fusion sites. *Neuropharmacology*
2. Bademosi AT, Steeves J, Karunanithi S, et. al., (2018). Trapping of syntaxin1A in presynaptic nanoclusters by a clinically relevant general anesthetic. *Cell Reports*. 22, 1-14.
3. Polanco JC, Li C, Bodea LG, et. al., (2018). Amyloid- β and tau complexity - towards improved biomarkers and targeted therapies. *Nat Rev Neurol*. 14(1): 22-39.