



1<sup>st</sup> Will Dynamics Electrophysiology Workshop

(第32回 ARIHHP Human High Performance セミナー)

# Introduction to electrophysiological methods for studying brain activities and functions

3月9日 (金)

15:00 ~ 講演  
17:00 ~ 実験デモ



François Grenier PhD.

Laboratory of Exercise Biochemistry and  
Neuroendocrinology, Faculty of Health  
and Sport Sciences, University of Tsukuba

会場：筑波大学 5C606、共同研究棟B208

世話人：征矢 英昭 (2620)

※学外の方は事前の申し込みが必要です

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Understanding how the brain performs its tasks is one of the most important scientific pursuit, in particular for the improvement of mental and physical health in the population. The brain performs its functions in part through the generation of electrochemical events that can be detected at different scales, from single neuron activities recorded with microelectrodes implanted in the brain, to electrical activities generated by networks of neurons detectable even outside the brain. Dr. Grenier will use examples from his work and that of others to present different electrophysiological techniques (including in vivo intracellular recordings, single units, local field potentials and EEGs) and how they have been applied to understand brain activities and functions such as sleep oscillations and the encoding of fear in amygdala networks. This will be an opportunity to discuss the application of electrophysiological techniques to address questions specific to the Will Dynamics project.

※本セミナーは新学術領域研究「意志動力学 (ウィルダイナミクス)の創成と推進」との共同開催です。



University of Tsukuba

主 催

・文科省特別経費プロジェクト  
ヒューマン・ハイ・パフォーマンスを実現する次世代健康スポーツ科学の国際研究教育拠点 - 最先端生命・認知脳科学の導入 -  
・文科省科研費 新学術領域研究  
意志動力学(ウィルダイナミクス)の創成と推進

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