

# THE 2<sup>nd</sup> WILLDYNAMICS ELECTROPHYSIOLOGY WORKSHOP

(第44回 ARIHHP Human High Performance セミナー)

2019年 3月 12日 (火) 14:00~17:00

会場：筑波大学5C606

※GSI棟302に変更になりました

世話人：征矢 英昭 (2620) 参加費無料

※学外の方は事前の申込みが必要です。【メール】 [office@arihhp.taiiku.tsukuba.ac.jp](mailto:office@arihhp.taiiku.tsukuba.ac.jp)

## Electrophysiology as a tool to understand brain function

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Understanding how the brain functions is a fundamental objective for modern societies, particularly for the improvement of mental and physical health in the population. The brain performs its functions mainly through the generation of electrochemical events that can be detected at different scales, with a variety of electrophysiological techniques. Dr. Grenier will provide an overview of what we have learned from electrophysiological techniques about the workings of the brain, and the kind of problems they can be used to address at the present. We will discuss techniques such as *in vivo* intracellular recordings, single units, local field potentials and EEGs and how they have been applied to understand brain activities such as the wake/sleep cycle and the functioning of neuronal networks. This will be an opportunity to discuss the application of electrophysiological techniques to address questions specific to the Will Dynamics program.

※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。

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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