



Centro Interdisciplinario de Neurociencia

S E M I N A R I O

“Gamma-band neural dynamics in human intra-cortical recordings”

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Intra-cortical recordings in human patients, obtained through surgically implanted electrodes, have become a powerful tool to study the neural basis of human cognition and behavior. Compared to non-invasive electrophysiological recordings (such as Electroencephalography -EEG- and Magnetoencephalography -MEG-), intra-cortical data has the combined benefit of assessing direct neural activity of high temporal and spatial resolution. Here I will review evidence that supports the role of broadband high-frequency (>50 Hz) neural activity in cognitive processes. This neural marker is dynamically modulated, within a variety of tasks and also spontaneously, at a local scale and coordinated at a large-scale through correlated low-frequency fluctuations.

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Centro de Extensión UC- Sala 3. Alameda 390

11:45 café / 12:00 a 13:30 hrs Seminario