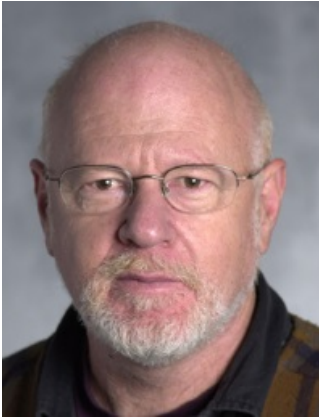


5<sup>th</sup> Barcelona Lecture Series in

# Brain, Cognition & Behaviour



## Rafael Malach

*Department of Neurobiology**Weizmann Institute of Science, Rehovot, Israel*

### Neuronal mechanisms underlying perceptual stability in the human brain

The external world is in a constant state of flow- posing a major challenge to neuronal representations that necessitate sufficient time for integration and perceptual decisions. In my talk I will discuss the hypothesis that one solution to this challenge is by breaking the neuronal responses into discrete temporal "grains". I will propose that these grains are likely driven by relatively long lasting "ignitions" of recurrent activity leading to perceptual awareness. The nature of such ignitions is that they are self-sustained and hence are immune to optical instabilities. Results from intracranial recordings in patients conducted for clinical diagnostic purposes during rapid stimulus presentations, ecological settings, blinks and saccadic eye movements will be presented in support of this hypothesis.

**Date: Thursday, 6 April 2017****Hour: 15:00****Place: Sala de Graus, Facultat de Psicologia, Campus Mundet**

Organized by:

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