



TRANSint workshop

Institut de Neurosciences de la Timone

This Workshop is aimed at exploring transient activity dynamics and connectivity at multiple scales across different central nervous system (CNS) structures, covering different **experimental methodologies combined with theoretical approaches**. The Workshop will gather an **excellent international panel of renowned speakers working on CNS transients**. Combining experimental and computational talks within each session, followed by round-table discussions will foster a **dynamic exchange of ideas regarding common generating mechanisms and functional roles of transients**. It will promote novel interactions within and beyond the **NeuroMarseille** community.

Thursday 14 th March 2024 - Cortical Transients	
I - Sensory transients, Chaired by Laurent Perrinet	
08:45 – 09:00	Welcome
09:00 – 09:15	Introduction
09:15 – 10:00	Mathilde Bonnefond : (Nested) transients in the visual system: we observe them... do we need them?
10:00 – 10:45	Martin Vinck : Transients vs. oscillations in predictive processing
10:45 – 11:15	Break
11:15 – 12:00	Giulio BONDANELLI : Circuit mechanisms of transient population responses in the auditory cortex
12:00 – 12:30	Student chat with the speakers
12:30 – 14:00	Lunch
II - Motor transients, Chaired by Bjørg Kilavik & Etienne Combrisson	
14:00 – 14:45	Yifat Prut : Subcortical shaping of motor cortical activity and motor behavior in non-human primates
14:45 – 15:30	James Bonaiuto : Beta bursts: does diversity in waveform = diversity in function?
15:30 – 16:00	Break
16:00 – 16:45	Andrew Quinn : A different perspective on oscillations with Empirical Mode Decomposition
Round table, Chaired by Frederic Chavane & Matthieu Gilson	
16:45 – 17:30	Common mechanisms of sensory and motor transients?
17:30 – 18:00	Student chat with the speakers

Friday 15 th March 2024 - Sub-cortical and CNS input/output Transients	
III - Basal ganglia transients, Chaired by Simon Nougaret	
09:30 – 10:15	Genela Morris : Basal ganglia neuromodulators: Transient signals for long lasting effects?
10:15 – 10:45	Break
10:45 – 11:30	Robert Schmidt : Transient oscillations in the basal ganglia and cortex: analysis, computational modelling, and function
11:30 – 12:00	Student chat with the speakers
12:00 – 13:30	Lunch
IV - Spinal cord & retina transients, Chaired by Rémi Bos	
13:30 – 14:15	Evelyne Sernagor : A potential angiogenic role for early spontaneous activity in the immature central nervous system
14:15 – 15:00	Muriel Thoby-Brisson : Breathing rhythmogenesis: Generating mechanisms and functional role of transients
15:00 – 15:30	Break
15:30 – 16:15	Jessica Ausborn : Unraveling the Complexity of Brainstem-Spinal Locomotor Control
Round table, Chaired by Sophie Denève & Rémi Bos	
16:15 – 17:00	Common experimental and computational mechanisms for transients across the CNS?
17:00 – 17:30	Student chat with the speakers
17:00 - 20:00	Wine & Cheese for all participants (4th floor INT)



SCAN to see full information on website