

**2019**

# **Neurodynamics Symposium**



**New perspectives in brain functions:  
Neural circuit dynamics and computational approaches.**

**4-5 July 2019  
Maison Minatec  
Grenoble, France**

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**PROGRAM**

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Day 1 - 4 <sup>th</sup> of July	
8-9	Welcome and registration
9-10	<b>KEYNOTE SPEAKER: CARL PETERSEN</b> <i>Neural Circuits for Goal-Directed Sensorimotor transformation</i>
10-10:30 Coffee Break	
10:30-11:05	<b>Alexander Fleischmann.</b> <i>Encoding of odor memories in the olfactory cortex</i>
11:05-11:40	<b>Nathalie Rochefort.</b> <i>Vision in action: contextual signals in visual cortex</i>
11:40-12:15	<b>Elodie Fino.</b> <i>Habit formation and dynamics of striatal networks</i>
12:15-12:45	<b>Claudia Barz:</b> <i>Neuronal mechanisms underlying sparse coding of passive touch – A combined in vivo and in vitro study</i> <b>Emel Laghouati:</b> <i>Alteration of S1Bf cortical network during epileptogenesis in GAERS, a genetic model of absence epilepsy</i>
12:45-14:30 Lunch Break and Poster Session 1 14-14:30 Sponsors presentation: LaVision - Noldus	
14:30-15:05	<b>Jeanette Hellgren Kotaleski.</b> <i>The striatum in silico – insights gained using quantitatively detailed models</i>
15:05-15:40	<b>Moritz Helias.</b> <i>Statistical physics of correlated neuronal variability</i>
15:40-16:10	<b>Ruggero Baranisi:</b> <i>A spiking neural-network model of goal-directed behavior</i> <b>Mehdi Adibi:</b> <i>A computational and behavioural framework for multisensory cue combination in dynamics environments</i>
16:10-16:40 Coffee Break	
16:40-17:15	<b>Andrew Murray.</b> <i>Brainstem circuits controlling posture and locomotion</i>
17:15-17:50	<b>Csaba Erő.</b> <i>A data-driven cell atlas for the mouse brain</i>
17:50-18:20	<b>Alexandra Pacureanu:</b> <i>Deciphering dense neuronal circuits with X-Ray holographic nano-tomography</i> <b>Maciej Jedynak:</b> <i>Integrating dMRI structural connectivity with functional data from direct electrical stimulation</i>
19:30 – <b>Dinner Party!</b> SUN VALLEY 10 cours Jean Jaurès - Grenoble	

## Day 2 - 5<sup>th</sup> of July

9-10

### KEYNOTE SPEAKER: MATTHEW NOLAN

*Circuit mechanisms and dynamic codes for spatial computation*

10-10:30 Coffee Break

10:30-11:05

### Michel Picardo.

*Emergence of cell assemblies in the developing hippocampus*

11:05-11:40

### David Clayton Rowland.

*Functional neuroanatomy of the medial entorhinal cortex: what stays and what goes?*

11:40-12:15

### Pierre Baraduc.

*Hippocampal representations of space in the nonhuman primate*

12:15-12:45

**Ayelen Groisman:** *Temporal mapping of adult-born granule cells integration in two major local inhibitory population of the hippocampus*

**Stéphanie Trouche:** *A tripartite neuronal motif for the behavioural manifestation of spatial appetitive memory*

12:45-14:30 Lunch Break and Poster Session 2

14-14:30 Sponsors presentation: Imaris - Zeiss

14:30-15:05

### Vincent Pascoli.

*Looking for circuit plasticity in mouse models of addiction*

15:05-15:40

### Emmanuel Valjent.

*Role of extended amygdala D2R signaling in fear generalization and avoidance behavior*

15:40-16:15

### Sebastien Carnicella.

*Deciphering the underlying cellular mechanisms of impulsive behaviors:  
Implication for impulse control disorders*

16:15-16:45

**Sol Fustiñana:** *Encoding of social information by subpopulations of amygdala neurons*

**Pierre Vincent:** *Interactions between dopamine and other neuromodulators in the striatum*

Closing of the meeting

Neurodynamics Symposium is supported by:



Grenoble INP



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