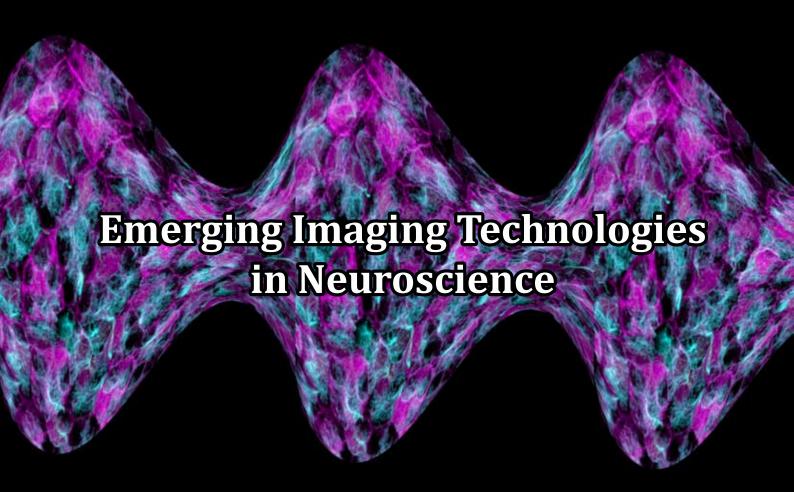
Neuroscience Workshop Saclay 2014

4-5 December 2014 Gif-sur-Yvette France



## Plenary speakers:

Herwig Baier
Emmanuel Beaurepaire
Randy Bruno
Valentina Emiliani
Florian Engert
Frederic Lesage
François Rousseau
Mickael Tanter
Alipasha Vaziri

## Thursday, 4<sup>th</sup> December

8.30 – 9:00 9:00 – 9:20	Registration Welcome: Brice Bathellier (UNIC) and Philippe Vernier (NED) Chair: Brice Bathellier
9:20 – 10:10	Plenary speaker: Herwig Baier (Max Planck Institut, Germany)  Neural circuits for zebrafish behavior
10:10 – 10:25	Arnim Jenett (Tefor Core Facility, Gif-sur-Yvette)
	Tefor core facility: an electronic atlas of standardized Zebrafish neuroanatomy
10:25 – 10:40	Eugenia Vilarchao (UNIC, Gif-sur-Yvette) Representation of global motion in the mouse barrel cortex, a
	voltage sensitive dye (VSD) imaging study
10:40 - 11:00	Coffee break and Exhibits
44.00 44.50	Chair: Nicolas Dray
11:00 – 11:50	Plenary speaker: Emmanuel Beaurepaire (École Polytechnique, Palaiseau)
11:50 – 12:05	Advances in multiphoton imaging of developing tissues  Sebastian Romano (ENP, Paris)
	Spontaneous neuronal network dynamics reveals circuit's functional adaptations for behavior
12:05 – 12:55	ENP Lecture: Florian Engert (Harvard University, USA)
	A sensory motor circuit for binocular motion integration in larval zebrafish
12:55 – 14:30	Lunch Buffet (Cantine, salle Automme)
14:30 – 16:30	Poster Session and Exhibits
	Chair: Eugenia Vilarchao
16:30 – 17:20	Plenary speaker: Valentina Emiliani (Université Paris Descartes, Paris)
17:20 – 17:35	Optogenetics and Wave front shaping  Benjamin Roland (Collège de France, Paris)
17.20 - 17.33	Processing of odor-evoked neural activity in the olfactory cortex
17:35 – 18:25	Plenary speaker: Randy Bruno (Columbia University, USA) Behavioral correlates of apical dendrite activity
18:25 – 18:40	Sofya Kulikova (Neurospin, Saclay) Creating an atlas of children brain connectivity

## Friday, 5<sup>th</sup> December

8:30 - 9:00	Registration
	Chair: Gabrielle Fournet
9:00 – 9:50	Plenary speaker: Mickael Tanter (Institut Langevin, Paris)
	Ultrafast Doppler and fUltrasound Imaging
9:50 – 10:05	Olivier Thouvenin (Institut Langevin, Paris)
	Non invasive detection of action potentials in a bulk neural tissue
	from intrinsic mechanical properties of neurons
10:05 – 10:55	Plenary speaker: Frederic Lesage (Polytechnique Montréal, Canada)
	Microscopic substrate of MRI imaging and associated consequences for aging studies
10:55 – 11:15	Coffee break and Poster Prize
	Chair: Jessica Lebenberg
11:15 – 11:30	Marianne Boucher (Neurospin, Saclay)
	Genetically functionalized magnetosomes as MRI contrast agent for
	molecular imaging: in vitro proof of binding and in vivo proof of contrast
11:30 – 12:20	Plenary speaker: François Rousseau (ICube, Strasbourg)
11.50 12.20	Fetal brain development study using MRI
12:20 – 13:00	Shuttle bus to Neurospin
13:00 – 14:30	Lunch Buffet and visit of Neurospin
	Chair: Luisa Ciobanu
14:30 – 14:45	Presentation of Neurospin: Jean-Robert Deverre
14:45 – 15:00	Zuzanna Piwkowska (UNIC, Gif-sur-Yvette)
	Patterned photostimulation of auditory cortical networks drives
15.00 15.50	perceptual discrimination in mice
15:00 – 15:50	Neurospin Lecture: Alipasha Vaziri (University of Vienna, Austria)  Towards a dynamic man of neuronal circuits
15:50 – 15:55	Towards a dynamic map of neuronal circuits Closing speech: Luisa Ciobanu (Neurospin)
13.30 – 13.33	Closing speccii. Luisa Clobanu (Neurospin)
15:55 – 16:35	Shuttle bus back to Imagif