

Final program

Monday:	20th
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'	Ulluay Zulli					
	Registration	8:00	-	9:00		
	Welcome	9:00	-	9:30		
	Session 1	(Chair Anto	ine	Triller)		
		9:30		10:10	Michael Ehlers	Organelles and Trafficking Machinery for
						Postsynaptic Plasticity
		10:10	-	10:50	Taekjip Ha	Illuminating the individual steps of SNARE-
						induced membrane fusion at the single vesicle
		10.50		44.00		level
		10:50	-	11:20	pause	
		11:20	-	12:00	David Digregorio	Subcellular optical detection of membrane
		12:00	_	12:40	Marc Schnitzer	voltage Of mice, men, and microscopes: Watching
		12.00		12.40	Marc Schinzer	cellular level dynamics in behaving subjects
		12:40	_	14:40	lunch - poster from A to L	consist to the approximation are accounting conspected
		12.10		1 1. 10	idilori postor iromit to E	
	Session 2	(Chair Dmit	tri E	Pusakov	1	
	36331011 2	•		,		Applications of salescent Deman investigation in
		14:40	-	15:20	Daniel Côté	Applications of coherent Raman imaging in neuroscience
		15:20	_	16:00	Serge Charpak	Two-photon imaging neurovascular activity
					3	and metabolism in the rat olfactory bulb
		16:00	-	16:40	Emmanuel Beaurepaire	Third-harmonic generation microscopy:
					·	principles and applications
		16:40	-	17:10	pause	
		17:10	-	17:50	Francesco Pavone	Non Linear Optical Imaging and Manipulation
						of Neural Networks
		17:50	-	18:30	Paul De Koninck	Probing the whereabouts and affairs of CaM
						kinase II in neurons: mechanisms and
		40.00		10.10	Malace Ca Nillaced	functions
		18:30	-	19:10	Valentin Nägerl	Live-cell imaging of synapses at nanoscopic resolution by STED microscopy
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Wine and cheese party

Tuesday 21st

Session 3	(Chair Paul De Koninck)		
	9:00 - 9:40	David Kleinfeld	Topology and Control in Cortical Blood Flow
			Revealed with Linear and Nonlinear Optical
			Methods
	9:40 - 10:20	Dmitri Rusakov	Nano-diffusion in the brain extracellular space examined with time-resolved fluorescence anisotropy imaging (TR-FAIM)

	10:20	-	11:00	Arthur Konnerth	In vivo two-photon imaging of mouse visual cortex signaling at eye-opening
	11:00	-	11:30	pause	
	11:30	-	12:10	Richard Tsien	Tracking the dynamics of single vesicles with Qdots and other optical probes
	12:10	-	12:50	Maxime Dahan	Investigating cell dynamics at the single molecule level using quantum dots
	12:50	-	14:20	lunch	
Session 4	(Chair Ehud	d Is	acoff)		
	•		15:00	Gaudanz Danuser	High-content image analysis in early steps of endocytosis
	15:00	-	15:40	Petra Schwille	Fluorescence Correlation Spectroscopy in live cells and reconstituted systems
Talks selecte	d from abstra	acts	;		
	15:40	-	16:00	Philipp Schoenenberger	Optimizing the spatial resolution of Channelrhodopsin-2 activation
			16:20	Pierre Marquet	Living cell analysis with Digital Holographic microscopy
	16:20	-	16:50	pause	
	16:50	-	17:30	Paul Wiseman	Advances in image correlation methods for measurements in live cells and neurons
	17:30	-	18:10	Ryuichi Shigemoto	Correlative study of central synapses by fluorescence and electron microscopy
	winecellar v	/isit			bus at 18h30
	Gala dinner	at	chateau	ı Bouscaut	Bus return around 23h30
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Session 5	(Chair Rich		-		
	9:00		9:40	Ehud Isacoff	Light-gated ion channels
	9:40	-	10:20	Jerome Mertz	New approaches towards fluorescence background rejection
	10:20	-	11:00	Karl Deisselroth	Optogenetics: Development and Application
	11:00	-	11:30	pause	

Akihiro Kusumi

12:50 - 14:50 lunch - poster from M to Z

Maria Garcia-Parajo

Signal transduction based on the plasma membrane meso-domains and the actin

Optical nanotools to investigate the spatiotemporal organization of the cell membrane at

single-molecule

skeleton: a

membrane

tracking study

the nm scale

11:30 - 12:10

12:10 - 12:50

Session 6	(Chair Michael Ehlers	s)	
	14:50 - 15:30	Gregory Giannone	Trans-synaptic activation of Neuroligin1 by β -Neurexin binding induces fast stabilization of PSD95
	15:30 - 16:10	Christophe Schmidt	Traffic on microtubules, closely followed by AFM and single-molecule fluorescence
Talks selecte	d from abstracts		
	16:10 - 16:30	Cedric Bouzigues	Detection of Reactive Oxygen Species in living cells by nanoparticle imaging: application to PDGF signaling
	16:30 - 16:50	Ralf Schmauder	Simultaneous recording of ligand-binding and channel-gating on individual nicotinic-acetylcholine receptors in living cells
	16:50 - 17:20) pause	
Session 4	17:20 - 18:00	Laurent Groc	Shedding light on the physiological role of glutamate receptor surface trafficking
	18:00 - 18:40) Hervé Rigneault	Coherent Anti-Stokes Raman Microscopy for bio-imaging: new developments
	18:40 - 19:20	Stephan Sigrist	STED microscopy in the analysis of synapse assembly

Free evening

Thursday 23rd

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Session 7	(Chair Herv	ré Rigneaul	(t)	
	9:00	- 9:40	Bernardo Sabatini	Tracking activity-dependent protein trafficking during plasticity induction
	9:40	- 10:20	Olivier Rossier (Sheetz lab)	Force Generated by Actomyosin Contraction Builds Bridges Between Adhesive Contacts
	10:20	- 11:00	Olivier Thoumine	Optical manipulation and activation of bio- mimetic neuronal contacts triggered by specific cell adhesion molecules
	11:00	- 11:30	pause	
	11:30	- 12:10	Laurent Cognet	From single molecule detection to gold nanoparticle photothermal tracking in live neurons
	12:10	- 12:50	Chris Yip	Correlated Approaches to Determining Single Molecule Structure and Dynamics in Membranes
	12:50	- 13:30	Antoine Triller	Synaptic plasticity seen at a single molecule level
	13:30	- 14:30	lunch and departure	