



FRANCE-BIOIMAGING

PROGRAMME

Third Annual Meeting France BioImaging

Day 1 : 17/09/2015

8.30	Welcome and coffee
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FBI community Meeting

9.00 – 9.30	ACTIVITY REPORT by the Coordinators, Jean Salamero and Maité Coppey
9.30 – 11.00	PARALLEL SESSIONS
	Session 1. 9.30 –10.15 NUC meeting 10.15 –11.00 NAC meeting
	Session 2. 9.30 -11.00 Poster Session FBI labs + Core facilities /Exchanges/Open discussions

FBI Scientific Meeting

11.00 – 12.00	Keynote Lecture by Eric BETZIG, Laureate of the Nobel Prize of Chemistry 2014 HHMI, Janelia Farm, USA
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12.00 - 13.00	Lunch
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13.00 - 14.30	WP1a (SPT-Super Resolution) <i>Invited Speaker :</i> <ul style="list-style-type: none">▪ Clemens Kaminski (Cambridge, UK) <i>“Optical Nanoscopy to study molecular mechanisms of disease”</i> <i>2nd Speaker:</i> <ul style="list-style-type: none">▪ Bin Yang (LP2N, Institut d’Optique, Bordeaux) <i>“Polarization effects in Lattice-STED nanoscopy”</i> <i>3rd Speaker:</i>
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	<ul style="list-style-type: none"> ▪ Rémi Galland (IINS, Bordeaux) <i>“soSPIM: single objective Selective Plane Illumination for 3D high- and super-resolution imaging of biological structures.”</i> <p>4th Speaker:</p> <ul style="list-style-type: none"> ▪ Antoine Le Gall (CBS, Montpellier) <i>“Imaging DNA organization and transport at super-resolution”</i>
14.30 - 16.00	<p>WP4 (Bioimage Informatics - Image Processing & Data Management)</p> <p>Invited Speaker :</p> <ul style="list-style-type: none"> ▪ Erik Meijering (Rotterdam, NL) <i>“The Virtues of Community Efforts in Bioimage Analysis”</i> <p>2nd Speakers:</p> <ul style="list-style-type: none"> ▪ Thierry Pecot (IPDM-Rennes; Inria) <i>“Particle flux estimation for traffic analysis in live cell imaging”</i> ▪ Alexandre Dufour (Paris Centre, Institut Pasteur) <i>“Deciphering Cellular Morphodynamics using Bioimage Informatics”</i> <p>3rd Speakers:</p> <ul style="list-style-type: none"> ▪ (IDB) Perrine Paul-Gilloteaux (IPDM-Rennes ; Institut Curie / Inria) <i>“Image life cycle: IPDM infrastructures and software interoperability”</i> ▪ Fabrice de Chaumont (IPDM-Pasteur): Icy community report <p>4th Speakers:</p> <ul style="list-style-type: none"> ▪ Lydia Danglot (Paris Centre, IJM, ICY end-user) <i>“Analyzing spatial distance and colocalization of synaptic molecules in multi-color super-resolution microscopy with Icy SODA (Statistical Object Distance Analysis).”</i> ▪ David Pastor Escuredo (IPDM, BioEmergences end user) <i>“The biomechanics of embryonic morphogenesis from digital specimens”</i>
16.00 - 16.15	Coffee break
16.15 - 17.45	<p>WP2 (HTP/HCS Imaging)</p> <p>Invited Speaker:</p> <ul style="list-style-type: none"> ▪ Rafael Carazo Salas (Cambridge, UK) <i>“Wiring the genomic circuits that control cells through microscopy-based phenomics”</i> <p>Invited Speaker:</p> <ul style="list-style-type: none"> ▪ Xavier Gidrol (Grenoble, FR) <i>“HCS/HTS studies on 3D organoids using “lenless” imaging”</i> <p>+ Short talks WG2 & co: Gaëlle Boncompain (Institut Curie, Paris Centre), Edouard Bertrand (IJM Paris Centre), Thomas Walter (Institut Curie/Mines Paris Centre)</p>
17.45 – 18.30	<p>WG5 a & b, 2 sessions:</p> <ul style="list-style-type: none"> ▪ Training, Education; Laurent Heliot (20 min)



	<ul style="list-style-type: none"> Dissemination; e-Communication, Tech transfer; Coordination (20 min)
18.30 - 21.00	Poster session FBI labs+ Core F + Dinner on site (starting at 19.30)

Day 2 : 18/09/2015

8.00	Welcome coffee
8.30 - 9.00	FBI & Europe (EuBI, Cost, Infra-DEV...) Daniel Choquet (BIC, Bordeaux)
9.00 - 10.30	<p>WP1c (CLEM/Super CLEM)</p> <p><i>Invited Speaker:</i></p> <ul style="list-style-type: none"> Yannick Schwab (EMBL, G) <i>“Fast and precise targeting of single tumor cells in vivo by multimodal correlative microscopy”</i> <p><i>2nd Speaker:</i></p> <ul style="list-style-type: none"> Xavier Heiligenstein et al (Institut Curie, Paris Centre) <i>“Space-time CLEM to investigate organelles biogenesis. An integrated workflow”</i> <p><i>3rd Speaker</i></p> <ul style="list-style-type: none"> Jacomine Krijnse Locker (Institut Pasteur, Paris Centre) <i>“Correlated light- and electron microscopy to study host-pathogen interactions”</i> <p><i>4th Speaker:</i></p> <ul style="list-style-type: none"> Claire Boulogne et al (Gif, IdF Sud) <i>“CLEM approaches to study autophagy in plant cells”</i> <p><i>5th Speakers:</i></p> <ul style="list-style-type: none"> Jennifer Petersen, Lysiane Brocard, Etienne Gontier (BIC) <i>“Various aspects of CLEM on cells and tissues”</i>
11.00 - 12.00	<p>Inter INBS session</p> <ul style="list-style-type: none"> ➤ INBS-Frisbi: Presentation by Bruno Klaholz (Coordinator) ➤ INBS-Phenomin: presentation by Emilie AUDRAN (Illkirch)
12.00 - 13.30	<p>WP1d (New Contrast & In-Depth Imaging)</p> <p><i>Invited Speaker:</i></p> <ul style="list-style-type: none"> Dan Oron (Weizmann Institute, Israel) <i>“Is there a future for inorganic tags for coherent nonlinear microscopy”</i> <p>+ FBI Flash talks</p> <ul style="list-style-type: none"> Laurent Bourdieu (ENS, Paris Centre) <i>“Ultrafast and -deep scanning in two-photon microscopy”</i> Valentina Emiliani (Paris Descartes University, Paris Centre) <i>“Wave front shaping and optogenetics”</i> Hervé Rigneault (Institut Fresnel, Marseille) <i>“Nonlinear endoscopes”</i> Emmanuel Beaurepaire (Polytechnique, IdF-Sud) <i>“Multicolor & light-sheet approaches in 2P microscopy”</i>
13.30 - 14.30	Lunch
14.30 - 16.00	WP1b (Multimodal & Quantitative Fluorescence Microscopies)



	<p>WG1b presentation (5 min)</p> <p><i>Invited Speaker:</i></p> <ul style="list-style-type: none">▪ Gerard Marriott (UC Berkeley, USA) "<i>Perrin-Weber based analyses of protein interactions using genetically-encoded sensors of protein hydrodynamics (Part I). A new fluorescence-based approach to image early stage tumours in living mice (Part II)</i>" <p>+ Talks from WG1:</p> <ul style="list-style-type: none">▪ Jérôme Hottin (CBS, Montpellier) "<i>Oligomerization of G-Protein Coupled Receptors : a 'Number and Brightness' study</i>"▪ Sophie Brasselet (Institut Fresnel, Marseille) "<i>Polarization resolved microscopy for structural bio-imaging</i>"▪ Nicolas Borghi (IJM, Paris Centre) "<i>Mobilities and interactions of Focal Adhesion proteins and their rigidity sensitivity</i>"
16.00 - 17.30	<p>WP3 (Probe Devpt, Optomanipulation & Optogenetics) <i>"Photocontrol/optical imaging of biological systems : Chemists in action"</i></p> <p>With the participation of:</p> <ul style="list-style-type: none">▪ ANDRAUD Chantal, ENS Lyon▪ BLANCHARD-DESCE Mireille, Université de Bordeaux▪ BOURGEOIS Dominique, IBS Grenoble▪ DALKO Peter, Université René Descartes▪ GAUTIER Arnaud, ENS Paris▪ KLYMCHENKO Andrey, Université de Strasbourg▪ MAHUTEAU Florence, Institut Curie▪ PETOUD Stéphane, CBM Orléans/Université de Genève▪ POLICAR Clotilde, ENS Paris▪ SAINLOS Matthieu, Université de Bordeaux▪ SPECHT Alexandre, Université de Strasbourg▪ VAUZEILLES Boris, Université Orsay/CNRS Gif
17.30 - 18.00	<p>Concluding remarks /perspectives</p>