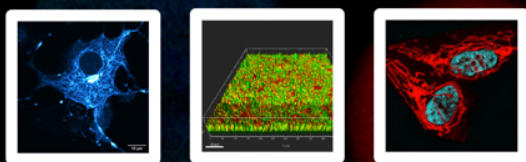


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Monday, October 14

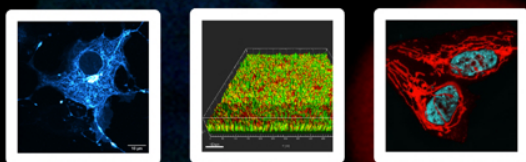
Session 1 : New chemical probes, labeling and activation strategies for a living environment

Chairs : **Florence Mahuteau-Betzer** (Curie) and **Arnaud Chevalier** (ICSN)

Herv  Daniel Auditorium – Henri Moissan (Bat 670)

- 14:00-14:15 Conference Opening
Boris Vauzeilles, ICSN and BioProbe Co-Chair
- 14:15-15:15 Translating fluorescent probes for imaging immune cell function in humans
Marc Vendrell, Centre for Inflammation Research and IRR Chemistry Hub, The University of Edinburgh, Edinburgh, UK
- 15:15-15:35 An azo-based fluorogenic smart probe to visualize a mitochondrial azoreductase activity in live cells
Laurane Michel, ICSN
- 15:35-15:55 Two-photon excitable fluorogenic probes for Click-to-Release bioorthogonal reactions
Aur lie Rodriguez, Institut Curie
- 15:55-16:15 Coffee Break**
- 16:15-16:45 L'interdisciplinarit  au CNRS
Maguy Jaber
- 16:45-17:05 Decoding day-long maturation of the PCFPs of the EosFP family and engineering fast-maturing variants
Virgile Adam, Institut de Biologie Structurale, Grenoble
- 17:05-17:25 A tunable and versatile chemogenetic near infrared fluorescent reporter
Lina El Hajji, Laboratoire des Biomol cules
- 17:25-18:30 BioProbe General Assembly including a presentation from SATT
Marie Erard, ICP and BioProbe Co-Chair

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Tuesday, October 15

Session 2 : Biosensors and Nanoprobes from design to application in imaging

Chairs : Rima Haddad (LSHL) and Oliver Nüsse (ICP)

Herv  Daniel Auditorium – Henri Moissan (Bat 670)

9:00-10:00 Protein binding kinetics in immune-cell contacts and its influence on T-cell activation
Peter J nsson, Division of Physical Chemistry, Lund University, Sweden

10:00-10:20 Bioengineered condensates to interact and manipulate membrane-bound organelles in cells
Emma Pasquier, ENS

10:20-10:40 Coffee Break

10:40-11:00 In vitro evaluation of a strategy of treatment associating Platinum nanoparticles and FLASH Radiotherapy
Pauline Maury, IGR

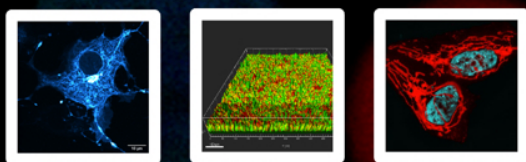
11:00-11:20 Quantum Dot-Based FRET Nanosensors for Talin-Membrane Assembly and Mechanosensing.
Marcelina Cardoso Dos Santos, I2BC

11:20-11:40 Optical Biosensors for the Detection of Bacteria
Mariah Harris, ISMO

11:40-12:00 CAP-PHOTOAC: Control of the optical absorption properties of nanovectors for photoacoustic imaging
Riccardo Ossanna, ISMO & PPSM

12:00-14:00 Lunch

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Tuesday, October 15

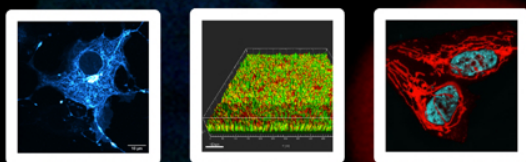
Session 3 : Label-free chemical analysis and imaging

Chairs : **Hafsa Korri-Yousoufi** (ICMMO) and **Ali Tfayli** (Lip(Sys)²)

Herv  Daniel Auditorium – Henri Moissan (Bat 670)

- 14:00-15:00 Improving cancer surgery: need for objective photonic techniques.
Senada Koljenovic, UZA Antwerp, Belgium
- 15:00-15:20 Multicontrast three-photon microscopy for tissue applications
Stella Dees, LOB
- 15:20-15:40 Using Infrared Nanospectroscopy (AFM-IR) to study protein assemblies:
the case of Prion assemblies dynamic.
J r mie Mathurin, ICP
- 15:40-16:00 Development of a handheld multispectral imager prototype for drug
analysis.
Erwin Winkler Martinez, Lip(Sys)²
- 16:00-16:20 Coffee Break**
- 16:20-17:20 SOLEIL is the French synchrotron, both a large-scale facility and
a research laboratory
Frederic Jamme, Christophe Chevalier and Pierre Montaville, Soleil
- 17:20-17:40 Single cell analysis using synchrotron radiation μ FTIR spectroscopy.
Christophe Sandt, Soleil
- 17:40-18:00 Noninvasive evaluation of the skin barrier in reconstructed human
epidermis: impact of blue light exposure/
Lea Habib, Lip(Sys)²
- 18:00-20:00 Cocktail and Poster Session**

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Wednesday, October 16

Session 4 : Bridging the gap from nanoscale to in vivo imaging

Chairs : **Sandrine L v que-Fort** (ISMO) and **Larbi Amazit** (IBVB)

Herv  Daniel Auditorium – Henri Moissan (Bat 670)

- 9:00-10:00 Red photocontrollable fluorescent proteins for live-cell nanoscopy
Francesca Pennacchietti, KTH Royal Institute of Technology, Sweden
- 10:00-10:20 Measuring axonal transport in models of Alzheimer's disease using neurotropic fluorescent nanodiamonds
Baptiste Grimaud, LuMIn & LAMBE
- 10:20-10:40 Agile two-photon microscope for fast 3D single-particle translation and rotation tracking
Fran ois Marquier, LuMIn
- 10:40-11:00 **Coffee Break**
- 11:00-11:20 Flux : a new contrast for simultaneous multi-targets imaging in 3D single molecule localization microscopy
Laurent Le, ISMO
- 11:20-11:40 Visualizing the self-assembly mechanism of viruses through fluorescence microscopy and interferometric scattering at the single molecule level
Karen Perronet, LuMIn
- 11:40-12:00 Defining and enhancing single molecule regime with dynamic excitation control
Lancelot Pincet, ISMO
- 12:00-12:20 Periodic light modulations for low cost wide-field imaging of luminescence kinetics.
Ian Coghill, ENS
- 12:20 **Pick up lunch**