



PhysChemCell2022

BIOPROBE | universit  PARIS-SACLAY

@Reiner

Monday, October 17th

11h-11h30 : Conference Welcome Hall Emmy Noether (Batiment Nord)

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

- 11h30-12h30 New Chemistries for Stimuli-Responsive Targeting Drug Conjugates
Pedro M. P. Gois, Research Institute for Medicines, Pharmacy Faculty, Universidade de Lisboa
- 12h30-14h Lunch**
- 14h-15h20 Borinic acids as new, fast hydrogen peroxide-responsive triggers
Dominique Urban, ICMMO, Facult  des Sciences d'Orsay
Photopharmacology : towards light-controlled TAM kinase activity
Sandrine Piguel, BioCIS, Facult  de Pharmacie
CinNapht as Easily Tunable Naphthalimide/Cinnoline Fused-Hybrid Dyes for Fluorescence Imaging in Living Cells
Arnaud Chevalier, ICSN
Fast and Bioorthogonal Release of Isocyanates in Living Cells from IminoSydnones and Cycloalkynes.
Maxime Riberaud, CEA
- 15h20-15h50 Break**
- 15h50-15h30 New molecular tools for profiling active metalloproteases
Laurent Devel, Institut Joliot/DRF, CEA
A new immunofluorescence methodology to follow G4 ligand distribution in cells
Daniela Verga, UMR9187-U1196, Institut Curie
- 15h45 Round table on Opportunities Outside Academia**
Nicolas Bourg (Abbelight), **Alessia Quatela (Horiba)**, **Oliver Nosjean (Servier)**

Tuesday, October 18th

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

- 9h-10h Keynote : Title soon
Petr Cigler,
- 10h-10h40 Biocompatible and photostable photoacoustic nanoparticulate contrast agents based on bodipy-scaffold and polylactide polymers: synthesis, formulation and in vivo evaluation
Rachel Méallet Renault, ISMO, Faculté des Sciences d'Orsay
Focal adhesion nanosensors to study proteins assembly in synthetic cell model
Marcelina Cardoso Dos Santos, I2BC
- 10h40-11h10 Break**
- 11h10-12h30 A bright YFP for imaging from FRET biosensors to STED nanoscopy
Hélène Pasquier, ICP, Faculté des Sciences Orsay
Digging for Glutathione function in Endoplasmic Reticulum physiology using roGFP-based redox probes
Agnes Delaunay, I2BC
Etude d'un système non canonique de réparation de l'ADN chez les Actinobactéries
Anais Bayard, LOB, Ecole Polytechnique
High Content Screening Confocal Laser Scanning Microscopy (HCS-CLSM) to decipher the mechanisms of bacterial pathogens exclusion by positive biofilms
Virgile Gueneau, MICALIS, INRAE
- 12h30-14h Lunch**

Session 3: Label-free chemical analysis and imaging

- 14h-15h Keynote : Title soon
Thomas Laurell, Dept. Biomedical Engineering, Div. Nanobiotechnology, Lund University
- 15h-15h40 Label-free nanoscale spectromicroscopy of drug nanocarrier
Maeva Chupard, ISMO et LPS, Faculté des Sciences d'Orsay
Synchrotron multimodal imaging in a whole cell reveals lipid droplet core organization
Marine Froissard, Institut Jean-Pierre Bourgin, INRAE AgroParisTech
- 15h40-16h10 Break**
- 16h10-17h50 Single-molecule nanopore sensing of glycosaminoglycans
Parisa Bayat, LAMBE, Université Evry Val d'Essonne
Characterization of the chemical diversity of *Sextonia rubra* fruits by MALDI-CASI-FT-ICR mass spectrometry imaging and molecular networks
David Touboul, ICSN
A 3-photon / thg platform for deep-tissue microscopy
Julia Ferrer Ortas, LOB, Ecole Polytechnique
Hybridization-chain-reaction is a relevant method for in situ detection of M2b-like macrophages during bone regeneration
Krisztina Nikovics, Institut de Recherche Biomédicale des Armées
Raman imaging of THP-1 cells: impact of eicosapentaenoic acid on the hydrolysis of cholesterol esters in lipid droplets
Ali Muhieddine, Lip(Sys)², Faculté de Pharmacie
- 17h50 Cocktail&Poster**

Wednesday, October 19th

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

- 9h-10h Brain Folds and the Extracellular Matrix: Lessons from Brain Organoids
Orly Reiner, Department of Molecular Genetics, Weizmann Institute of Science, Rehovot
- 10h-10h40 Contribution of tissue clearing to 3D visualization of large biological samples
Christelle Langevin, IERP, INRAE
In-vivo fast non-linear microscopy reveals intraneuronal transport impairment induced by slight molecular motor imbalances in the brain of zebrafish larvae
Baptiste Grimaud, LuMIn, ENS Paris-Saclay
- 10h40-11h10 Break**
- 11h10-12h50 Adaptive optics fluorescence microscopy for bioimaging
Alexandra Fragola, ESPCI et ISMO, Faculté des Sciences d'Orsay
An opto-microfluidic assay, to probe signaling and function in glomeruli-on-chip.
Maxime Mauviel, LOB, Ecole Polytechnique
Timing a single ribosome in action: from in vitro to in cellulo observations
Karen Perronet, LuMIn, ENS Paris-Saclay
Time shifting interferences for improved localization precision in Single Molecule Localization Microscopy
Abigail Illand, ISMO, Faculté des Sciences d'Orsay
Dynamics of the calcium signal elicited by mechanical stimulation of the root in the model plant Arabidopsis
Jean-Marie Frachisse, I2BC

Find the place: <https://physchemcell2022.sciencesconf.org/resource/acces>

Presentations : Amphitheatre Dorothy Hodgkin (Batiment Ouest)

Welcome & Breaks : Hall Emmy Noether (Batiment Nord)

