

Friday June 6th, 2014

Symposium: “Frontiers of Chemical Biology: Investigating life with chemistry”

Amphithéâtre Marie Curie
CNRS, Campus Gérard Mégie
3 rue Michel-Ange
Paris 16^{ème}

ITMO Bases moléculaires et structurales du vivant

9:00 *Welcome and Check-in*

9:15 **Introduction - Jean-Claude Michalski** (Dir. ITMO BMSV)

SESSION 1 : Introduction and chemistry in living cell - Chair : **Anne Imberty** (Grenoble)

9:30 **Inorganic cellular chemistry : form biological activity to sub cellular imaging - Clotilde Policar** (Paris)

10:10 **Metabolic labeling of living bacteria – Boris Vauzeilles** (Orsay – Gif sur Yvette)

10:35 **Breaking new ground of In cell and in vivo synthetic chemistry – Alain Wagner** (Illkirch)

11:00 *Coffee-break and Poster Session*

SESSION 2 : Chemical biology of proteins and peptides - Chair : **Agnès Delmas** (Orléans)

11:20 **Chemical modification of proteins in vitro and on live cells using protein trans-splicing – Henning Mootz** (Münster)

12:00 **Chemically-modified proteins as tools designed to explore biological systems – Vincent Aucagne** (Orléans)

12:25 **Flash presentations** (*details page 2*)

13:00 *Lunch (Joliot-Curie room)*

SESSION 3 : Chemistry for imaging and modeling - Chair: **Pascal George** (Chatenay -Malabry)

14:30 **Non-Invasive Imaging of metabolic fluxes and enzymatic activity in living mice - Hacer Karatas** (Lausanne)

15:00 **A toolkit of fluorescent molecular probes for biomembrane research - Andrey Klymchenko** (Strasbourg)

15:25 **A scent of molecular modeling in chemical-biology - Bernard Offmann** (Nantes)

15:50 *Coffee-break and Poster Session*

SESSION 4 : Chemical biology of nucleic acids - Chair : **Carine Giovannangeli** (Paris)

16:10 **Small Molecules, Big Players – Raphael Rodriguez** (Gif-sur-Yvette)

16:35 **Imaging RNA and RNA biology using RNA mimics of green fluorescent protein - Samie Jaffrey** (New-York)

17:15 **Conclusion - Agnès Delmas, Anne Imberty et Pascal George**, représentant la Société de Chimie Thérapeutique (SCT)

17:30 *End of the symposium*

Inscriptions: <http://chemical-bio.sciencesconf.org/>

Web Site: (French) <http://tinyurl.com/IBMSV-aviesan> and (English) <http://tinyurl.com/IBMSV-aviesan-english>

Flash presentations (12:25 - 13:00)

Broad profiling prediction of protein kinase inhibitors via koinochemometrics approach - Nicolas Bosc (Orléans)

Light-activated proteolysis for remote control of proteins - Quentin Delacour (Paris)

Lanthanide(III)-based polyamidoamine dendrimers as visible and near-infrared imaging probes - Svetlana Eliseeva (Orléans)

Synthesis of peptidyl-RNA conjugates for structural and mechanistic study of FemXwv aminoacyl transferase - Mélanie Etheve-Quelquejeu (Paris)

Cu ligands with high selectivity over Zn to combat Alzheimer's disease - Christelle Hureau (Toulouse)

Towards semi-synthetic n-glycosylated mog to identify aberrantly modified native protein autoantigens in multiple sclerosis - Maud Larregola (Cergy-Pontoise)

Heparan sulfate-protein chemical biology for therapeutic innovation - Christine Le Narvor (Orsay)

Targeting epigenetic factors and DNA methylation: towards development of novel anticancer therapies - Marie Lopez (Toulouse)

Out-of-phase imaging after optical modulation (opiom) for selective imaging of photoconvertible proteins - Jérôme Quérard (Paris)

Polymer photoswitches to manipulate lipid membranes and cells with light - Christophe Tribet (Paris)

Degradable hybrid materials based on cationic acylhydrazone dynamic covalent polymers promote DNA complexation through multivalent interactions - Sebastien Ulrich (Montpellier)

Brief presentation of "GDR ChemBioScreen: A French network for chemical biology" - Laurence Lafanechère (Grenoble)

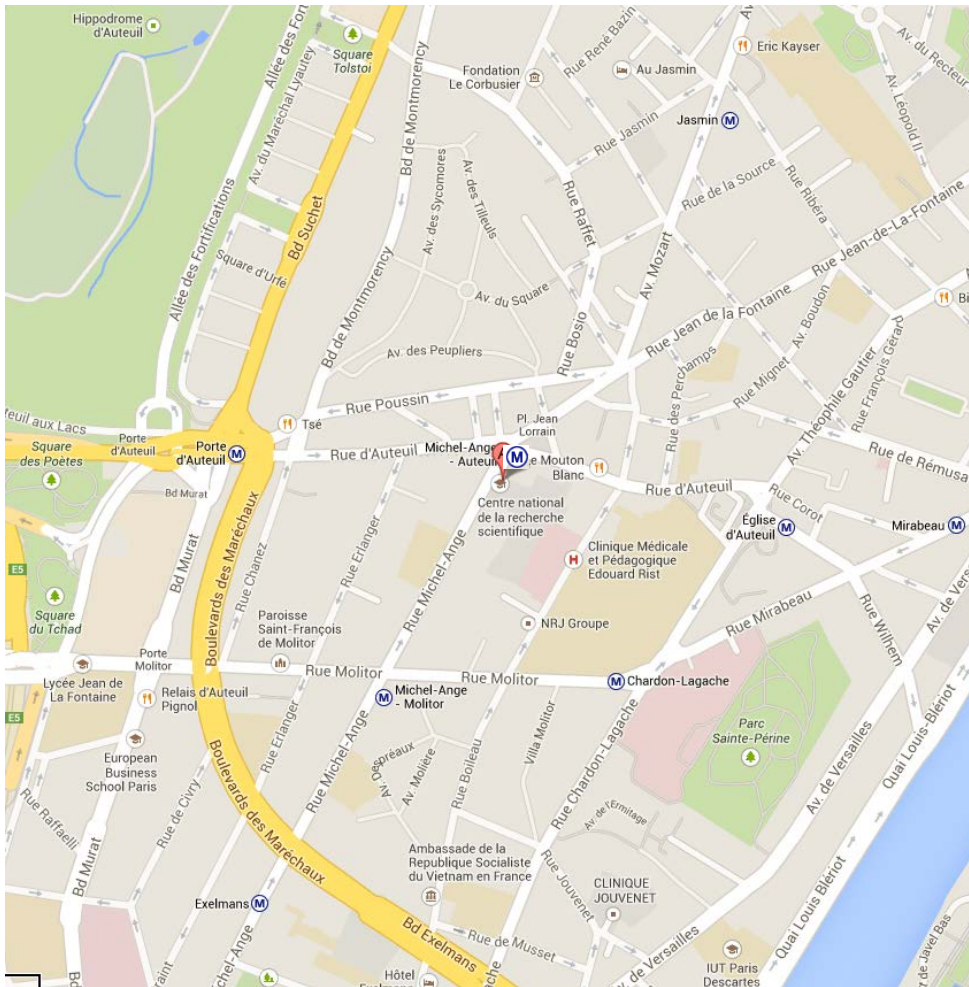
Localisation

To get the **Amphithéâtre Marie Curie**

CNRS, Campus Gérard Mégie

3 rue Michel-Ange

Paris 16^{ème}



Métro : Michel Ange
Auteuil

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