

Ecole Doctorale de Chimie Moléculaire de Paris Centre - ED 406 - Director: Prof. Anna Proust

Program of the  
18<sup>th</sup> Conference of the Doctoral School  
Lecture Hall Astier

Tuesday,  
June 5, 2018

*morning sessions*

*Moderator*

9h00 – 9h15      Opening of the 18<sup>th</sup> conference by Prof. A. Proust

**9h15 – 10h00      Marie Odile Lafon (SATT LUTECH, Paris)**

Technology Transfer.

10h00 – 10h15      Yufeng Ren

The applications of well-defined copper and nickel complexes bearing redox-active ligands.

Dr. Vincent Corcé

10h15 – 10h30      Thibaut Martinez

New developments for electrophilic metallic and organic catalysis.

10h30 – 10h50

*Coffee break*

10h50 – 11h05      Karen De La Vega Hernandez

A Radically Different Approach to Vinylgermanes: Germylzincation of  $\alpha$ -Heteroatom-substituted Alkynes.

11h05 – 11h20      Bingwei He

Peptides targeting specifically glycosaminoglycans at the cell surface as efficient drug delivery systems.

11h20 – 11h35      Ye Lyu

Catalytic Enantioselective C–H Alkylations by Cobalt(III) Complexes.

Dr. Alexandre Pradal

11h35 – 11h50      Dilan Karapinar

Bio-inspired heterogenous catalysts for carbon dioxide reduction.

11h50 – 12h05

Presentation of candidates for the election of PhD student 's representants of the doctoral school.

12h05 – 14h00

*Lunch*

Tuesday,  
June 5, 2018

*afternoon sessions*

*Moderator*

14h00 – 14h15 Zhihao Li  
Study of LAM mimetics-based glycovaccines against  
Tuberculosis.

14h15 – 14h30 Yue Tang  
Asymmetric Gold-Catalyzed Domino Transformations.

14h30 – 14h45 Martin Warlop  
Supramolecular DNA.

14h45 – 15h00 Fatma Abdmouleh  
Synthesis, characterization and antimicrobial evaluation of new  
triarylmethane derivatives from bisacodyl.

Dr. Vincent Corcé

15h00 – 15h45

*Coffee break*

15h45 – 16h00 Gaëtan Basuyaux  
Chiral supramolecular assemblies of metallo-polymers.

16h00 – 16h15 Guangcan Xu  
Metal Complexes of Modified Cyclodextrins.

16h15 – 16h30 Gauthier Hallot  
From batch to flow chemistry to access metallic Bismuth  
nanoparticles.

16h30 – 16h45 Yifan Deng  
Flavin-dependent hydroxylation of aromatic compounds.

Prof. Anna Proust

**16h45 – 17h45 Pr. Oliver S. Wenger (University of Basel, Switzerland)**  
Photoinduced Multi-Electron Transfer and Accumulation of Redox  
Equivalents.

Wednesday,  
June 6, 2018

*morning sessions*

*Moderator*

**9h00 – 10h00 Pr. Burkhard König (University of Regensburg, Germany)**

Photoredox Catalysis: Organic Synthesis with Visible Light.

Dr. Cyril Ollivier

10h00 – 10h15 Claire Andersen

Cross-Coupling reaction between alkyl halides and Grignard reagents featuring strained cycles.

10h15 – 10h30 Menel Ben Frej

Development of a lab-on-a-chip for proteomics: an integrated isoelectric focusing / protein digestion / mass spectrometry system.

10h30 – 10h50

*Coffee break*

10h50 – 11h05 Samantha Bourg

Development of an aptamer-based microfluidic system for the multi-detection of cancer biomarkers.

11h05 – 11h20 Hui Chen

Dramatic Differences in Aggregation-Induced Emission and Self-assembled Morphologies of Tetraphenylethene-Based Stereoisomers.

11h20 – 11h35 Lorien Benda

Allosteric regulation of switchable catalytic tweezers.

Dr. Christophe  
Desmarests

11h35 – 11h50 Sawsen Cherraben

Towards Functional Cyclodextrin-Based Molecular Machines.

11h50 – 12h05 Presentation of candidates for the election of PhD student 's representants of the doctoral school.

12h05 – 13h30

*Lunch*

Wednesday,  
June 6, 2018

afternoon sessions

Moderator

13h30 – 13h45 Jérémie Gouyon  
A lab-on-a-chip for the analysis and recycling of strategic metals in Waste Electric and Electronic Equipment.

13h45 – 14h00 Leïla Bechtella  
PIP<sub>2</sub> contributions for internalization of the cell-penetrating peptide Penetratin. Cell-free reconstitution and model membranes

14h00 – 14h15 Getnet Sewnet Kassahun  
New biocompatible surface-attached hydrogel immobilization platform for improved biosensors.

Dr. Alejandro Pérez-Luna

14h15 – 14h30 Guillaume Masson  
Synthesis of enantioenriched fluorinated azepanes.

14h30 – 14h45 Roxanne Ornstein  
New fluorescent probes to follow bacteria growth or metabolism in droplets.

14h45 – 15h00 Alexandre Dupas  
Synthesis of substituted azepan-2-ones from 2*H*-azirines.

15h00 – 15h30 *Coffee break*

15h30 – 15h45 Grégoire Paille  
A Noble Metal-Free Photosystem Based on Cobalt-Polyoxometalates Immobilized in a Porphyrinic Metal-Organic-Framework for Water Oxidation.

15h45 – 16h00 Cécilia Papini  
Natural and Artificial Hydrogenases: Structure and Reactivity.

16h00 – 16h15 Aymane Selmani  
Access to polyfunctionalized chiral heterocycles through Rhodium(I)-catalyzed cascade reactions initiated by boron reagents.

16h15 – 16h30 Amandine Vincent  
Development through combinatorial chemistry of a bioactive copper peptidic complex: characterization and in vitro/in vivo SOD activity.

Prof. Matthieu Sollogoub

16h30 – 16h45 ChauDuy Tam Vo  
Biochemical and structural characterization of proteins involved in anaerobic ubiquinone biosynthesis in *E.coli*: YhbU, YhbV.

**16h45 – 17h45 Pr. Thomas Carell (Ludwig-Maximilians University of München, Germany)**  
DNA Bases beyond Watson and Crick.

17h45 – 18h00 Conclusion: Prof. Anna Proust