

Jeudi 19 mai

9h15-9h30 **Accueil**

9h30 **Introduction** (Stéphane Ménage)

Modérateur : Jacques Covès

9h40 **Lars Ohrström** (École polytechnique Chalmers)

Les métaux en biologie et en histoire – contes du tableau périodique.

10h30 **Gaëlle Uzu** (LTHE)

Is Tillandsia capillaris an efficient bioindicator of atmospheric deposition of metals and metalloids? Insights from a five-month monitoring in an urban mining area.

10h50 **Doti Serre** (DCM)

Metal complexes interacting specifically with G-quadruplex DNA.

11h10 **Patricia Amara** (IBS)

Carbon-sulfur bond-forming reaction catalyzed by the radical SAM HydE.

11h30 **Flash présentations**

12h30 **Déjeuner**

Modératrice : Sandrine Ollagnier

15h00 **Myriam Seemann** (Université de Strasbourg)

The metalloenzymes GcpE and LytB, two targets for the development of new antimicrobials.

15h50 **Agnès Richaume** (Université Claude Bernard Lyon I)

Behavior of TiO₂ Nanoparticles in soil and consequential disturbance of microbial functioning.

16h10 **Juan Fontecilla** (IBS)

The crystal structure of the global anaerobic transcriptional regulator FNR explains its extremely fine-tuned monomer-dimer equilibrium.

16h30 **Séance Posters - Pause café**

Modérateur : Olivier Hamelin

17h30 **Jules Moutet** (DCM)

Synthesis and electronic structure of a nickel bis(anilido)-dipyrrin radical complex.

17h50 **Alexandre Poulain** (University of Ottawa)

A physiological role for mercury during phototrophic growth.

18h10 **Jennifer Molloy & Lionel Fedele** (DCM)

Ligand-centered redox-activity : A turn-off switch for lanthanide luminescence in lanthanide-phenolate complexes.

18h30 **Anne Volbeda** (IBS)

Structural determinants of the O₂-sensitivity of [NiFe]- and [NiFeSe]-hydrogenases.

19h30 **Diner**

21h30 **Assemblée générale**

Vendredi 20 mai

Modératrice : Christine Cavazza

9h00 **Vincent Balter** (ENS Lyon)

The biology of metals in humans: the stable isotope point of view.

9h50 **Solène Gentil** (DCM-LCBM)

H₂/AIR fuel cells integrating carbon nanotubes supported enzymes and bio-inspired catalysts.

10h10 **Julien Pérard** (LCBM)

FUR from Francisella tularensis: characterization and role in virulence.

10h30 **Pause**

Modératrice : Pascale Delangle

11h00 **Anne-Marie Aucour** (LGL-TPE de l'ENS Lyon-UCBL)

Speciation and dynamics in metal-tolerant plants from an urban wetland.

11h20 **Nicolas Leconte** (DCM)

A bis(2-amino-phenyl)amine redox active ligand: Synthesis, coordination chemistry, characterization and reactivity towards O₂.

11h40 **Johannes Klein** (LCBM)

Light-driven Oxidation of Organic Substrates by Activating Small Molecules (H₂O and O₂).

12h00 **Isabelle Hininger** (LBFA)

Fer et grossesse : risque de stress oxydant et diabète gestationnel ?

12h30 **Déjeuner**

Modératrice : Catherine Belle

14h00 **Marius Réglie** (Université Aix-Marseille)

Perspectives nouvelles en biocatalyse : des enzymes artificielles pour la biologie de synthèse ?

14h50 **Sarah Lopez** (LCBM)

Des métalloenzymes artificielles pour une chimie tandem.

15h10 **Céline Cepeda** (LCBM)

Luminescent peptide probes for biological imaging of metal cations.

15h30 **Yvain Nicolet** (IBS)

Fine-tuning of a radical-based reaction by radical S-adenosyl-L-methionine tryptophan lyase NOSL.

15h50 **Alan Le Goff** (DCM)

Oxygen reduction reaction by functionalized carbon-nanotubes modified with multicopper oxidases: control of enzyme orientation and electron transfer pathway.

16h10 **Autour d'un dernier café**