

1^{ère} Journée Utilisateurs et Utilisatrices d'INFRANALYTICS

Programme 22/11/2022, campus CNRS, chemin Joseph Aiguier, Marseille

8h30-9h00 **Accueil café**

9h00-9h30 **Introduction**

Aurélie Philippe, Déléguée Régionale CNRS Provence et Corse

Philippe Delaporte, Vice-Président Recherche Aix-Marseille Université

Carine van Heijenoort, Directrice d'INFRANALYTICS

Chair: **Bernhard Brutscher**

9h30-9h45 **Laurent Catoire**, IBPC, Paris

Exploration of the dynamic interplay between lipids and membrane proteins by high-pressure NMR spectroscopy

9h45-10h00 **Ivan Castillo**, UNAM, Mexico

Copper and reactive oxygen species

10h00-10h15 **Nicolas Nieuwjaer**, Laboratoire de physique des Lasers, Villetaneuse

Host-guest complexes between β -cyclodextrins and small drugs for SERS detection in drinking water

10h15-10h30 **Julien Marquevielle**, IECB, Bordeaux

G-quadruplexes structural studies using high field NMR spectrometers

10h30-10h45 **Gabriel Gaiffe**, CEA, Arpajon

Biogéochimie moléculaire de la matière organique naturelle dans l'aquifère Crétacé de la craie Champenoise

10h45-11h15 **Pause-café**

Chair: **Valérie Belle**

11h15-11h30 **Yannick Coppel**, LCC, Toulouse

NMR: a tool of choice for the study of metal nanoparticles

11h30-11h45 **Cédric Orelle**, MMSB, Lyon

Conformational dynamics of BmrA, a bacterial multidrug ABC transporter, studied by EPR spectroscopy

11h45-12h00 **Emmanuelle Sachon**, LBM, ENS-Sorbonne Université, Paris

Evaluation of the metabolic incorporation of isotopically labelled amino acids in a 25kDa protein expressed in mammalian cells

12h00-12h15 **Charles-Emmanuel Dutoit**, CR2ME, Lille

Origine de la couleur des baumes de momification utilisés durant l'Égypte antique révélée par spectroscopie RPE

12h15-12h30 **Eva Ortega-Retuerta**, Laboratoire d'Océanologie Microbienne, Banyuls sur Mer

Organic matter dynamics in the NW Mediterranean Sea: Main microbial players and effects for carbon cycling (ODISEA)

12h30-14h00 Déjeuner-Bufferet – Posters

Chair: **Hélène Lavanant**

14h00-14h30 *Conférence invitée*: **Caroline Tokarski**, CBMN, Bordeaux

How advanced mass spectrometry is reshaping what we can learn about paintings, objects and cultural heritage

14h30-14h45 **Marceau Levasseur**, ICSN, Gif-sur-Yvette

Characterization of the chemical diversity of *Sextonia rubra* fruits by MALDI-FT-ICR imaging and molecular networks

14h45-15h00 **Bruno Alonso**, ICGM, Montpellier

Solid-state NMR and intermolecular interactions in host-guest zeolite assemblies

15h00-15h15 **Athanasios Boudalis**, ISIS, Strasbourg

The yttrium(III)-stabilized phthalocyaninato radical as a module for biradical systems

15h15-15h30 **Pauline Raymond**, Collège de France, Paris

Comparison of MALDI-ToF and MALDI-FT-ICR mass spectrometry for paleoproteomics: study of the Le Piage site (Lot, France)

15h30-16h30 *Discussion utilisateurs*

16h30-17h00 Pause café

Chair: **Ewen Lescop**

17h00-17h15 **Idris Tlemsani**, ICMMO, Orsay

Assessing the magnetic relaxation times in a Ni(II) complex: evidence of quantum coherence in zero magnetic field

17h15-17h30 **Lauriane Lecoq**, MMSB, Lyon

The Dengue virus nucleocapsid-like particles seen by solid-state NMR

17h30-17h45 **James Sturgis**, LISM, Marseille

Functional and structural protein-lipid interactions of APQZ in *E. coli* lipids

17h45-18h00 **Alessio Bonucci**, BIP, Marseille

Combining EPR and NMR spectroscopies to investigate the function and dynamics of XRCC4 protein involved in the non-homologous DNA end joining pathway

18h00-18h15 Conclusion