

2023



NanoBiosciences

(Last update: August 23th, 2022)

Description

The « Nanobiosciences » session is dedicated to the study of the organization of biological matter at the nanoscale and to the design of nanometric tools for sensing, imaging and therapy.

This year, we wish to make a special emphasis on the following topics:

- Biological structures at the nanoscale: coacervates, protein bodies, exosomes...
- Interfacing nanomaterials with living organisms: surface bio-engineering, targeting, intracellular trafficking, pharmacokinetics and biodistribution...
- Physical state of nanodrugs: nanoprecipitation, nanocrystallisation...

All contributions related to the following topics (and more!) are also welcome:

- Lipid particles, self-assemblies, polymeric or inorganic particles, nanohybrids, lipoplexes, nanoemulsions
- Nanoprobes: magnetic, multiphotonic, plasmonic, photoacoustic
- Nanotherapeutics: radiopharmaceutics and radiosensitization, drug or gene-delivery, photodynamic and photothermal therapy, magnetic hyperthermia, protein therapy

Keywords

nanoprobes & nanocarriers (organic, inorganic, hybrids) for imaging & therapeutics, nanoprecipitation & other processes for biotechnologies, surface/particle (bio)functionalization, membrane interaction and intracellular trafficking

Scientific committee

Frédéric AFFOUARD (Univ. Lille – UMET, Lille)

Philippe BERTRAND (Univ. Poitiers – IC2MP, Poitiers)

Adeline BOIRE (INRAE – BIA, Nantes)

Fabienne GAUFFRE* (CNRS – ISCR, Rennes)

Nadine MILLOT* (Univ. Bourgogne – ICB, Dijon)

Stéphane MORNET (CNRS – ICMCB, Bordeaux)

* *Session Coordinator*