



SCIENTIFIC PROGRAM

NOVEMBER 24TH, 2025

12:30 Registration, Poster set up - Session A

13:30 **Opening session**

Dr Nicolas TSAPIS, President of SFNano, Université Paris-Saclay, Institut Galien Paris-Saclay, FRANCE

13:45 **Key Note: Prof Elias FATTAL**, Université Paris-Saclay, Institut Galien Paris-Saclay, FRANCE

Getting around the complexity of drug targeting in inflammatory diseases using nanotechnologies: lessons for the future?

SESSION 1 – New approaches for nanomedicine: cancer / Joint session with the BeNeLux and France Controlled Release Society Local Chapter



Chairpersons: Giovanna Lollo & Yohann Corvis

14:45 **Prof Valentina CAUDA**, Polytechnic University of Turin, ITALY

Rational Design of bio-mimicking nanoparticles as remotely triggered nanotheranostic platform for cancer treatment

15:15 **Dr Nazareth CARIGGA GUTIERREZ**, University Grenoble Alps, FRANCE

Photochemical internalization with verteporfin-liposomes enhances oxaliplatin retention and efficacy in models of pancreatic cancer

15:30 **Dr Lucile ALEXANDRE**, University of Paris Cité, FRANCE

Hybridization of EVs and LNPs Enables Advanced mRNA Delivery: Insights from Super-Resolution Microscopy

15:45 **Marine COLSON**, University of Toulouse, FRANCE

Bacterial nanoscale compound as a potent and safe alternative to BCG for bladder cancer treatment

16:00 **Dr Giovanna LOLLO**, University of Lyon, FRANCE

Pharmacokinetic Profiling of DACHPt-Nanoparticles Administered via PIPAC in Peritoneal Carcinomatosis

16:15 Coffee break – Poster set up (Session A)

16:45 **Prof Kevin BRAECKMANS**, Ghent University, BELGIUM

Lighting the way: nanoparticle-enhanced photoporation for safe and effective cell transfection in regenerative medicine and cell therapy

17:15 **Dr Marie-Anne JOURDAIN**, University Grenoble Alps, FRANCE

Improving pulmonary tropism of gapmer-DNM3OS through neutral lipid nanoparticle engineering

17:30 **Dr Mélina GUERIN**, University of Angers, FRANCE

Lung cancer and microbiota: Inhalable nanomedicines with antimicrobial properties as an innovative strategy to fight lung cancer

17:45 **Pierre LAPEZE**, University of Toulouse, FRANCE

Cubosome penetration in pancreatic tumor spheroids using a microfluidic chip.

18:00 **Dr Virginie MONNIER**, University of Lyon, FRANCE

Combined phototherapy and chemotherapy using gold nanostars and gold nanorods

18:20 **General Assembly of SFNano** (French Society for Nanomedicine)

19:00 Welcome Cocktail - Poster session A

8:30 Registration

SESSION 2 – Imaging, Diagnostic and Theranostic

Chairpersons: Lucie Sancey & Nicolas Tsapis

- 9:00 **Prof Maïke WINDBERGS**, Goethe University Frankfurt, GERMANY
Label-free Raman microscopy for investigating drug delivery systems and their fate in human tissues
- 9:30 **Dr Pierre SARFATI**, University of Paris, FRANCE
Hybrid polysaccharide/magnetite microgels for drug-free magnetically targeted photothermal thrombolysis
- 9:45 **Clément CAPDEVILLE**, University of Lyon, FRANCE
Imaging cells labeled with gold nanoparticles with spectral photon-counting μ CT
- 10:00 **Dr Olaf KOSCH**, Metrology for Magnetic Nanoparticle, Berlin, GERMANY
Magnetic Particle Imaging of flow diverter stent insertion into a patient-specific cerebral aneurysm phantom
- 10:15 Coffee break and Poster Session A
- 10:45 **Prof. Benoit BUSSER**, University of Grenoble, FRANCE
What can LIBS bring you in nanomedicine?
- 11:15 **Dr Léa GUERASSIMOFF**, University of Ghent, BELGIUM
Photothermal transport for guiding nanoparticles through the vitreous humor
- 11:30 **Priusha RAVIPATI**, University of Lyon, FRANCE
Polyoxotungstates as Contrast Agents for Spectral Photon Counting Computed Tomography (SPCCT)
- 11:45 **SPONSORS**
X4
- 12h10 Lunch and Poster Session A

SESSION 3 – Chemistry for nanomaterials

Chairpersons: Jeanne Leblond Chain & Cédric Chauvierre

- 13:45 **Dr Eva JAKAB-TOTH**, CNRS Center for Molecular Biophysics, Orléans, FRANCE
Towards safer and more specific MRI probes
- 14:15 **Dr Maurice RETOUT**, Université Libre de Bruxelles, BELGIQUE
Plasmonic nanoparticles dissociation for protease detection: from in vitro sensing to in vivo imaging
- 14:30 **Nandrajog ABHINANDAN**, University of Angers, FRANCE
Tunable Paclitaxel-Loaded Lipid Nanoparticle Hydrogel for Intimal Hyperplasia Prevention
- 14:45 **Bian ZHANCUN**, University Aix Marseille, FRANCE
Bola-amphiphilic glycodendrimers for targeting glial cells in the brain
- 15:00 **Henri COSTE**, Université de Bordeaux, FRANCE
Tailoring the surface chemistry of nanoparticles to modulate their Protein Corona
- 15:15 **Dr Fanny D'ORLYE**, Chimie ParisTech - University Paris Sciences and Letters (PSL), FRANCE
Nanotheranostic peptide-based agents: from design to formulation
- 15:30 Coffee break - Poster set up Session B
- 16:00 **Dr. François LUX**, University Claude Bernard Lyon 1, FRANCE
Functionalization of ultrasmall nanoparticles
- 16:30 **Sponsors X3 & Dr Barbara HISSA**, Beilstein Journal

Early Talent Session

Chairpersons: xx & xx

17h00 Early Talents Session and PhD award

PhD award 10 min

Bilel LAOULAOU, University of Nantes, FRANCE

Challenges in RNA Quantification: The Impact of Ionizable Lipids on the RiboGreen Assay

Dr Ahmed ABDELHAMID, University Grenoble Alps, FRANCE

High-Z Element Loaded Nanoliposomes for Enhancing Chemoradiation Therapy Outcomes

Thania HAMMOUM, University of Montpellier, FRANCE

Smart WRAP-based nanoparticles designed for pH-sensitive siRNA delivery in gastrointestinal stromal tumors (GIST)

Alberto GALINDO CABALLERO, Rey Juan Carlos University, Madrid, SPAIN

Antitumor activity of mesoporous organosilica drug nanoparticles based on $sn(iv)$ bis-organosilane complexes to overcome multi-drug resistance

Laurie DECHAMBOUX, University of Lyon, FRANCE

Adjuvanted hybrid nanoparticles for mRNA delivery across the intestinal mucosa

Ndiaye ABDOURAHMANE, University of Angers, FRANCE

Optimization of a drug delivery system for oral administration of peptides

18h30 Departure for Gala Diner

“Le Grand Réfectoire”

3 Cour Saint Henri Grand Hôtel-Dieu, 69002 Lyon



LE GRAND
RÉFECTOIRE

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HÔTEL-DIEU
LYON



8:30 Registration

SESSION 4 – New approaches for nanomedicine: immunity, and vaccination

Chairpersons: Elias Fattal & Claire Monge

- 09:00 **Prof Nicolas BERTRAND**, Université Laval, CANADA
PEGylated nanomedicines, antibodies and the complement, insights from animals and humans.
- 09:30 **Dr Jihana ACHOUR**, University Paris-Saclay, FRANCE
LNP co-Loaded with TNF- α siRNA and a synthetic corticosteroid to sepsis-induced lung inflammation
- 09:45 **Dr Katia MONTERO DIAZ**, Tours, FRANCE
Comprehensive analysis of immune responses to mRNA-based vaccines
- 10:00 **Dr Helena BRAET**, Institute of Pharmaceutical Sciences, Zurich, GERMANY
In vivo assessment of the transfection efficacy of TFAMoplexes

10:15 Coffee break and Poster session B

- 10:45 **Dr Gregory FRANCIUS**, CNRS Laboratory of Physical Chemistry and Microbiology for Materials and the Environment, Villers-lès-Nancy, Lorraine, FRANCE
Designing the next generation of anti-staphylococci bacteriophage-based biomaterials
- 11:15 **Dr Giulio AVVEDUTO**, University of Paris-Cité, FRANCE
Laser-activated nanoparticles rewire tumor microenvironment enhancing PD-1 blockade and T cell response in cholangiocarcinoma
- 11:30 **Dr Eric VIVES**, University of Montpellier, FRANCE
In vitro and in vivo mRNA delivery by Peptide-Based Nanoparticles: an evaluation study
- 11:45 **Zeineb IBN ELFEKIH**, University of Montpellier, FRANCE
Optimization of the nebulization parameters for Enhanced Pulmonary Delivery of Extracellular Vesicles

12h00 Lunch and Poster session B

They support us



SESSION 5 – From the Bench to Market

Chairpersons: Federica Costamagna & Andrey Klymchenko

- 13h30 **Dr Pierre WILS**, mRNA Center of Excellence - Sanofi, FRANCE
Developing mRNA Vaccines: From Platform to Products
- 14h00 **Dr Ine LENTACKER**, Ghent University, BELGIUM
Clinical translation of mRNA Galsomes – a glycolipid adjuvanted mRNA vaccine
- 14h30 **Dr Régina BLEUL**, Fraunhofer Institute for Microengineering and Microsystems IMM, GERMANY
Microtechnology for Nanomedicine: Developing Scalable Screening Technologies to Accelerate Nanocarrier Success from Bench to Bedside
- 14h45 **Dr Laurine HOURDEL**, Sanofi/University Claude Bernard, Lyon, FRANCE
Continuous mRNA-loaded lipid nanoparticles (LNP-mRNA) preparation in a CIJ mixer: experimental study and numerical validation
- 15h00 **Dr Audrey Nsamela**, Inside Therapeutics, Bègles, FRANCE
NanoPULSE: The first micromixing method delivering consistent lipid nanoparticle formulations seamlessly across all scales
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- 15h15** SFNano Awards and Final conclusion
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- 16h00** Meeting closure
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