



SCIENTIFIC PROGRAM

DECEMBER 6TH, 2021

12:30 Registration

13:30 **Opening session**

COLL Jean-Luc, SFNano

14:00 **Key Note: SCHERMAN Daniel**, Paris, FRANCE

Nucleic acid nanomedicines

SESSION 1 – Nanomedicine and Cancer / STRATAGEM COST Action

Chairpersons: Catherine Passirani, Lucie Sancey

14:45 **SCHROEDER Avi**, Haifa, ISRAEL

Tumor type and patient gender affect nanomedicine efficacy

15:15 **BROEKGAARDEN Mans**, Grenoble, FRANCE

Photodynamic Drug Release: An Emerging Approach to Address Key Challenges in Liposomal Drug Delivery

15:30 **KOSTKA Libor**, Prague, CZECH REPUBLIC

Polymer-ritonavir nanomedicine with pH-sensitive activation possesses potent anti-tumor activity in vivo via inhibition of proteasome and STAT3 signaling

15:45 **SIMON Laurianne**, Montpellier, France

Surface modifications of extracellular vesicles for plasma stabilization

16:00 Coffee break

16:30 **POPOVTZER Rachela** from **STRATAGEM COST Action**, Ramat-Gan, ISRAEL

The golden era of nanoparticles: theranostics, stratification and personalized medicine

17:00 **GUZMAN GONZALEZ Veronica**, Nimes/Grenoble, France

New therapeutic approach based on peptide nanoparticles for the repair of KRAS mutations on pancreatic and colorectal cancer

17:15 **LADAYCIA Abdallah**, Angers, FRANCE

In vivo efficacy of ferrocifen loaded lipid nanocapsules on ovarian cancer

17:30 **BASTIAT Guillaume**, Angers, FRANCE

Lipid nanocapsule hydrogel: a glioblastoma-targeted, local and sustained drug delivery system

17:45 **AVVEDUTO Giulio**, Paris, France

Gold nanostructure self-crystallization in tumor bearing mice model: dynamics of the process

18:00 **ECHANIZ LAGUNA Andoni**, Paris, FRANCE

Targeting RNA and DNA for the treatment of hereditary neuropathies

18:30 **General Assembly of SFNano** (French Society for Nanomedicine)

19:30 Welcome Cocktail in Jean Lurçat Museum

8:00 Registration, Poster installation - Session A

SESSION 2 – Nanochemistry and Biomaterials

Chairpersons: Elisabeth Garanger/Ariane Boudier

- 8:30 **TEXIER Isabelle**, Grenoble, FRANCE
Microneedles: new technologies to trans-dermally probe tissues or deliver active ingredients
- 9:00 **CHARRIAUD Fanny**, Lyon, FRANCE
Induction of strong and long-lasting neutralizing immune response by dPreS1-TLR2 agonist nanoparticle vaccine against Hepatitis B Virus
- 9:15 **MOUSSEAU Fanny**, Saclay, FRANCE
Quantitative, sensitive and multiplexed detection of biomolecules: the lanthanide-based luminescent nanoparticle contribution to lateral flow assays
- 9:30 **BEGIN Sylvie**, Strasbourg, FRANCE
Phosphate capture enhancement in peritoneal dialysis process using designed recyclable iron oxide nanostructures
- 9:45 **NOTTELET Benjamin**, Montpellier, FRANCE
Nanocomposites with controlled interfaces as biomaterials with enhanced performances

10:15 Coffee break

- 10:45 **ANDRETTO Valentina**, Lyon, FRANCE
Nanocomposites for the Oral Treatment of Inflammatory Bowel Diseases
- 11:00 **DHUMAL Dinesh**, Marseille, FRANCE
Self-assembling supramolecular dendrimers as potent antibacterial candidates against drug-resistant bacteria and biofilm
- 11:15 **GUENIN Erwan**, Compiègne, FRANCE
Nanoparticles embedded silk fibroin scaffolds for biomedical applications
- 11:30 Sponsors

ETP Nanomedicine and Introduction to the Nanomedicine and Gene therapy Session

- 12:00 **SCHIFFELERS Raymond**, Utrecht, NETHERLANDS

12h30 Lunch and Poster Session A

Organized in collaboration with



SESSION 3 - Nanomedicine and Gene therapy

Chairpersons: Chantal Pichon, Bernard Lebleu

Session sponsored by Alnylam Pharmaceuticals

14:00 **HAAS Heinrich**, BioNTech Mainz, GERMANY

14:30 **CRUZ DA SILVA** Elisabete, Strasbourg, FRANCE

Small ultrabright dye-loaded polymeric nanoparticles for amplified fluorescence in situ hybridization

14:45 **LAROUI** Nabila, Orléans, FRANCE

High efficiency of histidylated-based lipid formulations for mRNA transfection of human Schwann cells

15:00 **CAPUTO** Fanny, Paris, FRANCE

Measuring physical properties of lipid-based nanoparticles and extracellular vesicles: from method development to international standardization efforts

15:15 Sponsors

15:45 **EVEN Luc**, Sanofi Paris, FRANCE

16:15 Coffee break and Poster session A

SESSION 4 – Nanomedicine and Imaging

16:45 **MIGNET Nathalie**, Paris, FRANCE

17:15 **BALOSSO Jacques**, Grenoble/Caen, FRANCE

Young Session

Chairperson: ****

17h45 **Young Session and PhD award**

LEVY Raphaël, Paris, FRANCE

Is Nano a Bubble?

3 min talks

Photo contest

19h00 Departure for Gala Diner

Our sponsors



8:00 Registration, Poster installation - Session B

8:30 **DE LAS RIVAS Javier**, Salamanca, SPAIN
STRATAGEM COST CA17104 Presentation

SESSION 4 – Nanomedicine and Imaging

Chairpersons: *Nathalie Mignet, Jean-Luc Coll*

9:00 **KLYMCHENKO Andrey**, Strasbourg, FRANCE
Fluorescent nanoparticles from lipids and polymers for bioimaging and diagnostics

9:30 **LAMRAYAH Myriam**, Lyon, FRANCE
Nanoformulations of current therapeutic drug candidates against SARS-Cov-2 for pulmonary delivery

9:45 **GAUBERTI Maxime**, Caen, FRANCE
Mapping the Immune Response by MRI using a New Class of Biodegradable and Ultrasensitive Microprobes

10:00 **BLANCHARD-DESCE Mireille**, Talence, FRANCE
All-organic, intrinsically stealth nanoparticles for single particle tracking and bioimaging

10:15 **FOURNIER Louise**, Paris, FRANCE
Ultrasound responsive polymer microbubbles for an efficient targeted treatment of thrombotic diseases

10:30 Coffee break and Poster session B

11:00 **AL-JAMAL Khuloud**, London, UK
Nanoparticle Mediated in Situ Molecular Reprogramming of Immune Checkpoint Interactions for Cancer Immunotherapy

11:30 **XIAO Yu**, Paris, FRANCE
NIR-switched hybrid microgels doped with fluorescent dyes and gold nanoparticles for photoacoustic imaging and photothermal therapy

11:45 **LOUIS Béatrice**, Marseille, FRANCE
Optimizing and functionalizing a radiolabeled dendrimer nanosystem for PET imaging of glioblastoma

12h00 Lunch and Poster session B

SESSION 5 – BeNeLux & France Local Chapter Controlled Release Society

Chairpersons: Marie Morille, Roy Van der Meel

- 13h30 **MULDER Willem**, Eindhoven, NETHERLANDS
Taking control of innate immune immunity using nanobiologic therapeutics
- 14h00 **MARTINEZ DE LIZARRONDO Sara**, Caen, France
Exogenous nanovesicles bearing tissue factor improve outcome in intracranial hemorrhage stroke models by acting as hemostatic patches
- 14h15 **REPELLIN Mathieu**, Lyon/Verone, FRANCE/ITALY
Pentamidine-loaded hyaluronic acid nanocarriers as an innovative therapeutic strategy to treat myotonic dystrophy
- 14h30 **DES RIEUX Anne**, Louvain, BELGIUM
Delivery of therapeutics for the central nervous system diseases
- 14h45 **LOLLO Giovanna**, Lyon, FRANCE
Engineered nanocomposites presenting dual mucopenetrating and mucoadhesive properties for oral delivery
- 15h05 **VERBEKE Rein**, Ghent, BELGIUM
The early clinical development of a therapeutic mRNA-based cancer vaccine using alpha-galactosylceramide adjuvanted lipid nanoparticles
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- 15h25 SFNano Awards and Final conclusion
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- 16h00 Meeting closure
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With the local contribution of

