



## SCIENTIFIC PROGRAM

DECEMBER 6<sup>TH</sup>, 2021

12:30 Registration, Poster installation - Session A

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, Poster Session A

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

## 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 and Poster Session A

- 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  
*Natural or synthetic lipid nanoparticles for the delivery of RNA*

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  
*Delivery Technologies for next Generation mRNA Therapeutics*
- 14:30 **CRUZ DA SILVA** Elisabete, Strasbourg, FRANCE  
*Small ultrabright dye-loaded polymeric nanoparticles for amplified fluorescence in situ hybridization*
- 14:45 **LAROU** 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  
*Delivering mRNA medicines*

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16:15 Coffee break and Poster Session B

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### SESSION 4 – Nanomedicine and Imaging

- 16:45 **MIGNET Nathalie**, Paris, FRANCE  
*Combination therapies involving physical trigger and drug delivery systems assisted by imaging*
- 17:15 **BALOSSO Jacques**, Grenoble/Caen, FRANCE  
*Nanoparticles for image-guided Enhanced radiotherapy: NanoRad clinical trials*

### Young Session

Chairperson: Feras Oyouun, Ghadir Kalot

- 17h45 **Young Session and PhD award**  
**LEVY Raphaël**, Paris, FRANCE  
*Is Nano a Bubble?*  
Talks in 3 min  
Photo contest

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19h00 Departure for Gala Diner

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### Our sponsors



8:00 Registration

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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