

2021 SFNano Annual Meeting



Program & Abstract Book



Angers, Congress Center | France
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List of Poster Communications

SESSION A – Installation Monday 6th at 12:30 pm

Removal Tuesday 7th at 13:30 pm

NANOMEDICINE AND CANCER

A1 – Heba Alnemeah-Ali “Investigation on the self-assembly of the NFL-TBS.40-63 peptide and its interaction with gold nanoparticles as a delivery agent for glioblastoma”.

A2 – Milad Baroud “Self-assemblies of azacitidine prodrugs: a promising strategy of treatment for myelodysplastic syndromes”.

A3 - Markéta Bláhová “Biodegradable graft copolymers with dual drug binding”.

A4 - Louis Bourlon “Vectorization of M2e peptide by lipid nanoparticles for universal flu vaccine”.

A5 - Silvia Breusa “Development and characterization of drug-loaded nanoparticles for ovarian cancer treatment”.

A6 - Charlotte Berard “Perfluorocarbon nanodroplets and blood-brain barrier disruption as tools to improve glioblastoma treatment”.

A7 - Stéphane Desgranges “Ultrasound-sensitive perfluorocarbon nanodroplets and resulting formulations: Evaluation and potential for brain drug delivery”.

A8 - Flavien Delaporte “*In vitro* evaluation of acute and chronic liver toxicity of lipid nanocapsules: what formulation for a better biocompatibility?”.

A9 - Alexandre Detappe “A convergent platform for translating synergistic drug combination to nanomedicines: application to multiple myeloma”.

A10 - Soner Dogan “The effects of different types of calorie restriction on multiple drug resistance genes related mirnas in mammary tissue of breast cancer mouse model”.

A11 - Dounia Louaguef “Development of smart core/shell NPs as a drug platform for their further use in cancer therapy”.

A12 - Leslie E. Dubrana “Development of thermo-responsive polypeptide bioconjugates for the treatment of glioblastoma by PDT/RDT”.

A13 - Sahar Eljack “Development of lipid-based nanocarriers for the co-delivery of siRNA antisurvivin and Lapatinib for HER2 breast cancer treatment”.

A14 – Ondřej Lidický “Antibody-polymer drug conjugates for overcoming resistance in relapsed nonHodgkin lymphomas”.

A15 - Barbara Freis “Targeting strategy for a high selective accumulation and therapeutic efficiency of dendronized nanoparticles in head and neck cancer cells”.

A16 - Clémentine Fulbert “Using rare-earth based nanoscintillators to induce radiation dose-enhancement during radiotherapy”.

A17 - Audrey Griveau “Investigation of the interaction of the NFL-TBS.40-63 peptide with lipid nanocapsules and their cell entering properties”.

A18 - Audrey Griveau “Biological activity of gold nanoparticles combined with a peptide from neurofilaments on rat glioblastoma cells”.

A19 - Thomas Gevart “*In vitro* study of dendronized nanoparticles designed for targeted multimodal image guided therapy”.

A20 - Pierre Idlas “Ferrocifen loaded lipid nanocapsules against multidrug resistant ovarian adenocarcinoma”.

A21 – Marie-Anne Jourdain “Development of a new drug delivery system for targeting glioblastoma”.

A22 - Huu Van Le “Elaboration of polyelectrolyte complex-based nanoparticles from hyaluronic acid and diethylaminoethyl dextran for drug delivery applications”.

A23 - Marine Le Goas “In situ characterization of cancer nanomedicines to better understand their biological behavior”.

A24 - Mathilde Le Jeune “Cationic peptides to improve cellular uptake of magnetic nanoparticles”.

A25 - Elise Vène “Efficient targeting of human hepatoma cells by bioconjugates and poly(ethylene glycol)-b-poly(benzyl malate)-based nanoparticles functionalized with Circumsporozoite protein of Plasmodium berghei- and GB Virus A-derived peptides”.

A26 - Marija Petrovic “Polyethylenimine/cGAMP complexes for STING-mediated cancer immunotherapy: formulation and characterization with orthogonal techniques”.

A27 - Vincent Mittelheisser “Tumor targeting with antibody-conjugated nanoparticles: a systematic review and meta-analysis”.

A28 - Rodolfo Molina-Peña “Nanoparticle-containing Electrospun Nanofibrous Scaffolds for Sustained Release of SDF- α ”.

A29 - Rodolfo Molina-Pena “Silk-fibroin interventional nano-trap for the treatment of glioblastoma”.

A30 - Sean Moro “Development of a new theranostic approach targeting telomeric response in radio-resistant lung cancer cells”.

A31 - Epole Ntungwe “Self-assembly nanoparticles of bioactive royleanones”.

A32 - Laura Olmo "Downregulation of mTOR by siRNA increases the chemotherapeutic effect of 5'-fluoroacil in non-small cell lung cancer cells".

A33 - Sára Pytlíková "Novel hydrophilic polymer-drug conjugates for the treatment of advanced neoplastic diseases".

A34 - Marion Sicot "Ursolic acid nanocrystals as a MGMT inhibitor in the treatment of glioblastoma".

A35 - Sarah Stelse-Masson "Radioluminescent nanoparticles and deep-tissue photodynamic therapy to enhance radiotherapy efficacy".

A36 - Marina Tavares "HPMA-based glycopolymers tailored for specific interaction with Galectin-1 and Galectin-3".

A37 - Antoine Hoang "Hyaluronic acid-based hydrogel for the prevention of glioblastoma recurrence".

A38 - Daiva Vozgirdaite "Formulation of metformin-loaded immunoliposomes to potentiate the action of chemotherapies used in triple negative breast cancers".

A39 - Mingchao Wang "Development and evaluation of doxorubicin derivative loaded Vitamin E-based micelles for the local treatment of Glioblastoma".

A40 - Kamil Wawrowicz "^{193m},^{195m}Pt-based for combined "chemo-Auger" nanobioconjugates therapy of hepatocellular carcinoma (HCC) and HER2+ breast and ovarian cancers".

A41 - Guy Zuber "Targeting the polo-like kinase-1 with monoclonal antibodies inside living human cells to investigate the role of protein subdomains during mitosis".

NANOCHEMISTRY AND BIOMATERIALS

A42 - Zakaria Baka "Construction of ovarian cancer-on-chip model by 3D bioprinting and microfluidic techniques for applications in anticancer nanotherapy".

A43 - Joëlle Bizeau "Study of Isobutyramide-grafted Stellate Silica Nanoparticles for Protein Loading and Delivery".

A44 - Théo Ziegelmeyer "Inducing osteogenesis of mesenchymal stem cell through the use of mechanobactericidal nanostructured titanium".

A45 - Alexandre Adam "Orienting the pore morphology of core-shell magnetic mesoporous silica with the sol-gel temperature. Influence on MRI and magnetic hyperthermia properties".

A46 - Damien Mertz "Design of functional mesoporous silica nanoplateforms for magnetic or light induced hyperthermia and drug delivery applications".

A47 - Sirine El Mousli "Synthesis, Characterization and Cellular Internalization of Anisotropic Magnetic Nanoparticles".

A48 - Celia Arib "Neurofilament Peptide-Biotin (NFL) gold (III)- complex \pm bioconjugates: from Chemical Design to interaction with pancreatic (PDAC) cancer cells for Nanomedicine Applications".

A49 - Iveta Vilimova "miRNA Nanoprobes: easy formulation using streptavidin-biotin interaction".

A50 - Thomas Chaigneau "Monitoring of Gold Biodistribution from Nanoparticles using a HPLC-Visible Method".

A51 - Diana Kazaryan "UV-induced cross-linking of magnetic polymersomes deformed under a static magnetic field to study magnetically induced cell mortality".

A52 - Sébastien Wang "Formulation of vancomycin nanocomplexes through a microfluidic process for the treatment of Clostridium Difficile infections".

A53 - Thomas Trimaille "Polylactide based micelles as a robust platform for vaccine delivery".

A54 - Nour Mammari "Gold- and Silver-based nanoparticles as antibacterial agent against pathogenic bacteria".

A55 - Lemaire Laurent "Mithradate's antidote: an antique nanomedicine?"

A56 - Solene Masloh "Crossing of the intestinal barrier thanks to targeted biologics: Nanofitins".

A57 - René Rebollo "Development and optimization of liposomes manufacturing method using microfluidics and artificial neural network".

A58 - Raphaëlle Youf "Investigation of antibacterial photodynamic therapy using Ruthenium(II) polypyridyl complexes under experimental conditions mimicking cystic fibrosis lung infections".

A59 - Olivier Jordan "Characterization challenges of self-assembled hydrophilic nanogels".

A60 - Vincent Lebreton "Stability of LNC in biological medium, modification of physical characteristics and characterization".

A61 - Dunja Jovanovic "Bovine serum albumin - methionine capped silver nanoparticles interaction: Corona formation and the mechanism of adsorption".

A62 - Riya George "Prussian Blue self-assembled nanochains for theranostics".

A63 - Lenka Kotrčová "The effect of polymer biodegradability on polymer accumulation in organism".

A64 - Déborah Iglicki "From Ouzo effect to combined therapies".

A65 - Mathilde Lelan "Innovation for resolute size distribution measurement of nanocarriers and bioconjugates in native state".

SESSION B – Installation Tuesday 7th at 13:45 pm
Removal Wednesday 8th at 16:00 pm

NANOMEDICINE AND GENE THERAPY

B1 - Anda Sipola “Synthesis and characterization of cationic amphiphilic five-membered heterocyclic compounds for gene transfection”.

B2 - Qinglin Wang “Formulation of siRNA loaded liposomes to treat the pro-inflammatory response in sepsis”.

B3 - Arindam K Dey “Effects of the charge of lipid nanocarriers on their immunostimulatory activity”.

B4 - Karidia Konate “Dissecting the ability of a new cell-penetrating peptide to transfer efficiently and safely siRNAs into cells: A SAR study”.

B5 - Sébastien Deshayes “Peptide-based nanoparticles to deliver siRNA molecules into cells”.

B6 - Asad Ur Rehman “Fate of tableted freeze-dried siRNA-lipoplexes in gastrointestinal environment”.

B7 - Camille Ayad “LipoParticles: Lipid-coated PLA nanoparticles enhanced in vitro mRNA transfection compared to liposomes”.

B8 - Alexis Hocquigny “Characterization of the properties and effects of curcumin-based formulations in the context of cystic fibrosis disease”.

B9 - Yannick Mousli “Analytical and formulation development of lipid nanoparticles for lung delivery”.

B10 - Rosy Ghanem “Ramified cationic amphiphiles as novel efficient gene delivery systems for cystic fibrosis by aerosol”.

NANOMEDICINE AND IMAGING

B11 - Marina R. Tavares “HPMA conjugates as tumor-targeted theranostics for photodynamic therapy and tumor imaging”.

B12 - Walaa Moahammad “Near infrared II imaging technology for biomedical applications”.

B13 - Bart Franx “Molecular MRI tracking of post-reperfusion vascular inflammation in ischemic stroke with iron oxide particles”.

B14 – Norraseth Kaeokhamloed “Pharmacokinetics and oral absorption of different lipid nanocapsules using new quantitative FRET technique”.

B15 - Devreux Marie “Bimodal nanoparticles for MRI and optical imaging based on polymer vesicles (polymersomes) for image-guided drug delivery”.

B16 - Luca Dirheimer “Targeting of 3D head and neck cancer cells by functionalized Quantum Dots”.

B17 - Walaa Moahammad “Ultra-small shortwave infrared emitting contrast agents for in vivo imaging”.

B18 - Sarah Garifo “Development of a Nanoplatfrom-based MRI/OI Contrast Agent for Biomedical Application: conceptualization, characterizations and in vivo imaging studies”.

B19 - Memona Khan “Development of DOTAREM-Gold-Complex: A new multifunctional nanotheranostic agent for Cholangiocarcinoma”.

B20 - Julia Malinovskaya “Development of NP based theranostic approach towards personalized chemotherapy of solid tumors”.

B21 - Charlene Jacqmarcq “Synthesis and preclinical validation of a novel biocompatible MRI contrast agent that reveals brain microvascular thrombosis”.

B22 - Yu Xiao “Self-Assembly of Smart Microgels, Fluorescent Dyes and Gold Nanoparticles for Biomedical Applications”.

B23 - Manuel Navarro-Oviedo “Non-invasive detection of endothelial activation by Molecular Magnetic Resonance using Iron Oxide Microparticles: Cerebral Vasculitis experimental model development”.

B24 - Erwan Dereure “Improved quantification of Optical Imaging Data”.

B25 - Josef Hamacek “Synthesis and Characterization of Amphiphilic Fluorescent Molecules for Liposome Formulation and Imaging”.

B26 - Yu Wu “Cubosomal lipid nanoparticles encapsulating plasmalogens with neuroprotection effects”.

B27 - Huan Chen “Raman tags based on nano-assemblies of fluoride nanocrystals and oligomers derived from aryl diazonium salts for bioimaging”.

B28 - Riya George “Assemblies of Prussian Blue nanoparticles for Cancer therapy and diagnosis”.

B29 - Zoé Toure “Collectively establishing more solid foundations for bionanoscience by annotating and replicating the scientific literature”.

B30 - Daria D. Namestnikova “Real-time distribution of mesenchymal stem cells in ischemic rat brain after intra-arterial and intravenous administration”.

B31 - Clément Tavakoli “Bicolor imaging: Tracking gold nanoparticle-labelled cells and their iodine nanoparticle-labelled scaffold using multispectral imaging”.

CONTROLLED RELEASE

B32 - Younes Louaguénouni “Immunomodulatory nanosystem to treat sepsis”.

B33 - Charlotte Da Silva “Rotating magnetic silica-coated iron oxide nanochains potentiate the effect of methicillin in methicillin-resistant *S. epidermidis*”.

B34 – Alena Libànskà “HPMA-based drug delivery systems for treatment of rheumatoid arthritis”.

B35 - Nicolas Rolley “Parametric and in-situ study of lipid nanocapsule formulation by microfluidics”.

B36 - Anouk Martin “Microfluidic-assisted self-assembly of PEG-b-PTMC polymersomes: Size control and drug loading”.

B37 - Ilaria Andreana “Biodegradable nanoparticles loaded with novel anti-inflammatory drug to treat muscular dystrophies”.

B38 - Fanny Caffin “Formulation of a gelled nanoemulsion for treatment of SM- induced skin injuries”.

B39 - Maud Taulen “Liposomal encapsulation of Carbon Quantum Dots designed to treat Coronavirus infections modifies their fate after pulmonary delivery”.

B40 - Tristan Le Clainche “Engineering novel nanoliposomes for spatiotemporal controlled chemotherapy delivery by light and X-rays”.

B41 - Fang-Ching Chao “Pharmacokinetics of nanomedicines: combined impact of the morphology and surface of polymeric nanoparticles”.

B42 - Louise Fliedel “Conception and evaluation of conventional and peptide-functionalized liposomes for pregnancy associated disorders”.

B43 - Duygu Erdogan “Synthesis and Characterization of Therapeutic Antibody-Drug Conjugates against Ovarian Cancer”.

B44 - Nesrine Kaabachi “Formulation and *in vitro* evaluation of the antioxidant properties of thymoquinone”.

B45 - Panpan Ma “Optimization of organic nanocrystal formulations for active pharmaceutical ingredients delivery”.

B46 - F. Rodà “Raman Spectroscopy for the characterization of multifunctionalized - drug loaded liposomes”.



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