

Wednesday, June 12, 2013

8:00 - 10:10 Nanotoxicity (Assembly room)

- 08:00 › Current challenges of nanotoxicology - Rafi Korenstein, Tel-Aviv University, Israël
- 08:35 › In vitro Toxicity testing of manufactured nanomaterials: an experimental challenge - Francois Rossi, Joint Research Centre, Italy
- 09:10 › Investigation of the potential toxicity / ecotoxicity of double-walled carbon nanotubes - Emmanuel Flahaut, Institut carnot CIRIMAT (Centre inter-universitaire de Recherche et d'Ingénierie des Matériaux), CIRIMAT, LAAS, France
- 09:30 › Lipidots®: a versatile nanostructured lipid carrier for biomedical applications - Frédérique Mittler, Université Joseph Fourier, INSERM U1038, CEA DSV/IRTSV/Biomics, CEA LETI MINATEC DTBS, France
- 09:50 › Electrostatics at the nano-bio interface: A key interaction for optimizing cellular uptake and reducing cytotoxicity of metallic nanoparticles - Marcelo Marucho, Department of Physics and Astronomy, UTSA, USA

10:10 - 10:40 Coffee break (Hall Savary & Rouergue)

10:40 - 12:15 Nano-enabled drug delivery (Assembly room)

- 10:40 › Peptide-based nanoparticles for targeted drug delivery - Gilles Divita, CRBM-CNRS, France
- 11:15 › Nanoconjugation of gastrin to magnetic nanoparticles enables targeting of tumoral cells expressing gastrin receptor and cell death induction - Daniel Fourmy, Laboratoire de Réceptologie et Ciblage Thérapeutique en Cancérologie, France
- 11:35 › Polymeric self-assemblies for photodynamic therapy: cell penetration of the photosensitizer - Anne-Françoise Mingotaud, Interactions moléculaires et réactivité chimique et photochimique - Patricia Vicendo, Interactions moléculaires et réactivité chimique et photochimique, France
- 11:55 › The protein corona of nanoparticles: identification of single proteins influencing cellular uptake, by an unbiased, quantitative approach - Susanne Schöttler, Max Planck Institute for Polymer Research Mainz, Germany

12:15 - 13:30 Lunch (Hall Savary & Rouergue)

13:30 - 15:35 CGSO & CLARA Session (Assembly room)

- 13:30 › Social representation of nanotechnology, knowledge about disciplines and nanorelated products - Maité Brunel, Laboratoire CNRS, CLLE-LTC, UMR5263, Université Toulouse 2
- 13:42 › Biotechnological Application of Aptamers: Detection of MMP-9, a marker of brain tumors - Laurent Azema, Université Bordeaux Segalen, France
- 13:54 › Cancer-cells on a chip for label-free detection of secreted molecules - Ophélie Berthuy, Institut de Chimie et Biochimie Moléculaires et Supramoléculaires (ICBMS), Lyon
- 14:06 › High resolution prism-coupled-SPRi for single cell studies - Loïc Laplatine, Structures et propriétés d'architectures moléculaire (SPRAM), Grenoble
- 14:18 › Aptamer biosensor for small molecules detection using Surface Plasmon Resonance imaging and gold nanoparticles signal enhancement - Ferial MELAINE, CEA, Grenoble
- 14:30 › Study of cytokines secretion of lymphocytes: Real-time analysis by « biochip-cells » - Radé BAGANIZI - Institut Albert Bonniot (IAB), Grenoble

14:42 › High aspect ratio Microstructures for the Investigation of the Mechanics and Rheology of MultiCellular Tumor Spheroids

Laurene AOUN, Laboratoire d'analyse et d'architecture des systèmes (LAAS) & Institut des Technologies Avancées en sciences du Vivant (ITAV-USR3505), Toulouse

14:54 › Investigation of the competition between cell/surface and cell/cell interactions during neuronal stem cell culture on a micro-engineered surface - *Boris Demain - Imagerie cérébrale et handicaps neurologiques, Laboratoire d'analyse et d'architecture des systèmes (LAAS), Toulouse*

15:08 - 15:30 Refreshments (Hall Savary & Rouergue)

15:30 - 17:20 Cancéropôles GSO & CLARA Session (Assembly room)

15:30 › Theories and experiments on the way to optimize magnetic nanoparticles for magnetic hyperthermia - *Julian Carrey, Laboratoire de Physique et Chimie des Nano-Objets, Toulouse*

15:42 › Aqueous synthesis and dextran coating of large magnetite nanocrystals with interesting hyperthermia properties - *Vincent Connord, Laboratoire de physique et chimie des nano-objets (LPCNO), Toulouse*

15:54 › Rare earth oxysulfide nanoparticles as multimodal imaging agents for T2-weighted MR, X-ray tomography and photoluminescence - *Marc Verelst, Centre d'élaboration de matériaux et d'études structurales (CEMES), Toulouse*

16:06 › Elaboration of Water-soluble Macromolecular Probes for Two-Photon Bio-imaging and Photodynamic Therapy - *Favier Arnaud, Laboratoire d'Ingénierie des Matériaux Polymères (IMP), Laboratoire Joliot-Curie (LJC), Laboratoire de Chimie, Lyon*

16:18 › Polymeric self-assemblies for photodynamic therapy: treatment efficiency in spheroid 3D tumor models - *Laure Gibot, Institut de pharmacologie et de biologie structurale (IPBS), Toulouse*

16:30 › Gold-carbohydrate-polysiloxanes hybrid nanoparticles for biological applications - *Stéphane Lemonier, Interaction moléculaire et réactions chimiques et photochimiques (IMRCP), Toulouse*

16:42 › Colloidal suspensions based on biomimetic apatites: update and perspectives - *Christophe Drouet, Centre interuniversitaire de recherche et d'ingénierie des matériaux (CIRIMAT), Toulouse*

16:54 › Specific in vivo target delivery of siRNA using Peptide-Based Nanoparticles - *Nadir Bettache, Centre de Recherche de Biochimie Macromoléculaire (CRBM), Montpellier*

17:06 › pH-sensitive tripartite polyion complex micelles as siRNA vectors for DC engineering to induce tolerance
Rita Vicente, Institut Charles Gerhardt Montpellier, UMR 5253 CNRS-ENSCM-UM2-INSERM U844

17:20 - 18:00 Round table (Assembly room)