



Advances in nanoparticulate carriers

Applications in diseases and infections

International workshop and summer school

October 19-21, 2015, Institut Pasteur, Paris, France

Monday: October 19th 2015

1:30-02:00 pm	<i>Registration</i>	
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Title of the session: Nanoparticle platforms for cancer, infections and gene therapy

02:00-02:10 pm	Pr. C. Brechot	Opening Speech
02:10-02:20 pm	Dr. R. Gref/ Dr. L. Majlessi	Welcome Speech
02:20-02:45 pm	Pr. P. Couvreur	Overview on squalene-based nanomedicine
02:45-03:10 pm	Pr. C. Sanchez	Controlled design of hybrid nanocarriers and their applications
03:10-03:35 pm	Dr. V. Escriou	Design of small interfering RNA delivery systems
03:35-04:05 pm	<i>Coffee Break</i>	

Title of the session: Perspectives on nanoparticle biomedical applications

04:05-04:30 pm	Pr. A. Florence	Nanoparticles <i>in vivo</i> : complex events and realities
04:30-04:55 pm	Dr J.C. Arnault Dr. S. Chevillard	Radiosensitization of cancer cells using hydrogenated nanodiamonds
04:55-05:20 pm	Dr. S. Lacombe	Nanoparticles: exquisite tools to improve radiation therapy
05:20-05:45 pm	Pr. S. Sortino	Light as intriguing tool for on demand delivery of therapeutics
05:45-06:10 pm	Pr. D. Duchêne	Surprising nanoparticulate structures: small is beautiful
06:10- pm	<i>Cocktails</i>	

Tuesday: October 20th 2015

Title of the session: Engineered core-shell nanoparticles

09:15-09:40 am	Dr. C. Serre	Biocompatible metal organic frameworks in biomedicine
09:40-10:05 am	Dr. R. Gref	Towards an efficient drug encapsulation using "cage" nanoparticles
10:05-10:30 am	Dr. C. Ladavière	Biomimetic coatings on colloid surfaces: development and characterization
10:30-11:00 am	<i>Coffee Break</i>	

Title of the session: Advanced supramolecular architectures and related applications

11:00-11:25 am	Pr. N. Hildebrandt	FRET biosensing: Nanoscale interactions for clinical diagnostics, cellular imaging and drug delivery investigations
11:25-11:50 am	Dr. C. Chauvierre	Molecular diagnostic and treatment of diseases using nanomedicine
11:50-12:15 am	Pr. C. Amiel	Hierarchical self-assemblies tailored for drug delivery applications
12:15-02:00 pm	<i>Lunch/Poster</i>	

Title of the session: Nanoparticles to treat severe diseases, cancer and infections

02:00-02:25 pm	Pr. M.J. Blanco	Nanomedicines as a platform for the controlled delivery of drugs
02:25-02:50 pm	Pr. P. Saulnier	Lipidic nano capsules : Encapsulation or nanopresentation of anti microbial peptides.
02:50-03:15 pm	Dr. P. Boisseau	New approaches in nanomedicine for infectious diseases
03:15-03:55 pm	4 Short talks	
03:55-04:20 pm	<i>Coffee Break</i>	

Title of the session: Challenges in treating infections, focus on tuberculosis and malaria

04:20-04:55 pm	Pr. J. Zhang	Drug delivery systems to improve the bioavailability of artemisinins in answer to resistance to malaria
04:55-05:20 pm	Pr. R. Brosch	Tuberculosis treatment and drugs - an update
05:20-05:55 pm	Dr. P. Brodin	High content screening for the study of the interaction of drugs and nanoparticles within <i>M. tuberculosis</i> infected macrophages
05:55-06:20 pm	Dr. J. Stauber	Advanced methodologies to study the <i>in vivo</i> fate of drugs and nanoparticles

*Gala dinner***Wednesday: October 21th 2015****Title of the session: Advanced characterization methods**

09:15-09:40 am	Dr. P. Peotta	Modern methods for nanoparticle characterization
09:40-10:05 am	Dr. P. Reschiglian	Advanced characterization methods for nanoparticles and cells
10:05-10:25 am	2 Short talks	
10:25-10:50 am	<i>Coffee Break</i>	

Title of the session: Imaging cells in action

10:50-11:15 am	Dr. S. Levêque-Fort	Multimodal optical imaging modalities to investigate nanoparticle-cells interactions
11:15-11:40 am	Dr. F. Gazeau	Engineering extracellular microvesicles for imaging and drug delivery
11:40-12:05 am	Dr. J. Enninga	Imaging of intracellular pathogens and particles
12:05-02:00 pm	<i>Lunch/Poster</i>	

Title of the session: Nanoparticles for vaccines, molecular imaging and tissue repair

02:00-02:25 pm	Pr. D. Betbeder	Maltodextrin nanoparticles as carriers for prophylactic and therapeutic vaccines
02:25-02:50 pm	Dr. D. Letourneur	Nanoparticles for molecular imaging and tissue repair
02:50-03:30 pm	4 Short talks	
03:30-04:00 pm	<i>Coffee Break</i>	

Title of the session: Benefit/risk using nanoparticulate drug carriers

04:00-04:25 pm	Dr. F. Nessler	Recommendations for toxicity studies on nanoparticulate medical product candidates: Features & actions - Focus on genotoxicity
04:25-04:50 pm	Pr. E. Fattal	Tailoring nanomaterials for personalized drug delivery: safety and efficacy
04:50-05:15 pm	Pr. T. Loftsson	Pharmacokinetic and toxicologic profiling of cyclodextrin-based drug delivery systems
05:15-06:00 pm	<i>Round Table and best presentation awards</i>	