



Aix-en-Provence, France  
3-6 OCTOBER, 2010



## FINAL PROGRAMME

**3 Plenary lectures (45 min)**  
**10 Invited lectures (30 min)**  
**13 Oral communications selected from the abstracts (20 min)**  
**5 Technical lectures (20 min)**  
**More than 200 poster presentations**

**5 Sessions**

### Sunday, 3 October, 2010

14:00-18:00 Registration (**Centre de Congrès**, 14, boulevard Carnot, Aix-en-Provence)  
18:00-19:00 Guided walk in Aix-en-Provence (included in the registration fee)  
19:00-21:00 Welcome reception at the City Hall. Address: Place Hôtel de Ville  
(included in the registration fee)

### Monday, 4 October, 2010

08:00 - 09:00 Registration (**Centre de Congrès**, 14, boulevard Carnot, Aix-en-Provence)

#### Session 1

Chairs: J. Siepmann, University Lille Nord de France (France)/  
F. Alhaique, University "La Sapienza" (Rome, Italy)

09:00 - 09:15 Welcome

09:15-10:00 **Plenary lecture. B. Cabane, ENPC Paris (France)**  
*Micelles, microemulsions and emulsions as drug carriers: what are the boundaries according to thermodynamics?*

10:00-10:30 Invited lecture. **T. Rades, University of Otago (New Zealand)**  
*Modern spectroscopic techniques to characterise pharmaceutical solids*

10:30-10:50 Technical lecture. **SPI-Pharma (Grand Haven, MI, USA) - C. Prost**  
*Excipient system for making durable tablets at low pressure*

**10:50-11:30 Coffee Break/Posters and Exhibition**

11:30-11:50 Oral communication. **L. A. Chiavacci, UNESP (Araraquara, Brazil)**  
*Controlled diclophenac delivery from Ureasil-PEO-PPO hybrid matrix*

11:50-12:10 Oral communication. **P. Matricardi, University "La Sapienza" (Rome, Italy)**  
*Polysaccharidic hydrogels for modified drug delivery*

12:10-12:40 Invited lecture. **J. Doucet, University of Paris-Sud (Orsay, France)**  
*Novel opportunities offered by synchrotron light-based techniques for the design and evaluation of drug delivery systems*

### **12:40 -14:30 Lunch/Posters and Exhibition**

#### **Session 2**

Chairs: M.T. Peracchia, Sanofi-Aventis (Vitry sur Seine, France)/  
A.R. Bilia, University of Firenze (Italy)

14:30-15:00 Invited lecture. **S. Nicoli, University of Parma (Italy)**  
*Transscleral delivery of macromolecules: the iontophoretic approach*

15:00-15:20 Oral communication. **D. Pliszcak, University Claude Bernard Lyon 1 (France)**  
*Improvement of an encapsulation process for the preparation of probiotics-loaded bioadhesive particles by using experimental design*

15:20-15:40 Oral communication. **J. Paulo Silva, University of Porto (Portugal)**  
*Development of probiotic tablets: viability studies*

15:40-16:00 Oral communication. **S. Simovic, University of South Australia (Mawson Lakes, Australia)**  
*Enhancing the oral delivery of lipophilic drugs using silica lipid hybrid (SLH) microcapsules*

### **16:00-16:30 Coffee Break/Posters and Exhibition**

16:30-16:50 Technical lecture. **Ethypharm (Grand-Quevilly, France) - G. Bastiat**  
*Organogels, a new technology for the drug sustained delivery*

16:50-17:20 Invited lecture. **K. Maeder, University of Halle (Germany)**  
*Noninvasive monitoring of drug delivery by MRI, ESR and optical imaging*

#### **Poster Presentations:**

- 1. Solid dosage forms for buccal/oral delivery (buccal, granulation, tablets and pellets)**
- 2. Dissolution and bioavailability**
- 3. Dosage forms for topical delivery (hydrogels and topical delivery)**
- 4. Miscellaneous**

## Tuesday, 5 October, 2010

### Session 3

Chairs: E. Fattal, University of Paris-Sud (France)/  
M. Fresta, University "Magna Græcia" Catanzaro (Italy)

09:00-09:45 **Plenary lecture. C. Ventura, University of Bologna (Italy)**  
*Hyaluronan mixed esters of butyric and retinoic acids: differentiating and paracrine logics for regenerative medicine and cardiovascular repair*

09:45-10:15 Invited lecture. **G. Ponchel, University of Paris-Sud (Châtenay-Malabry, France)**  
*Characterisation of molecular interactions as a tool for designing multifunctional nanoparticles for targeting applications*

10:15-10:35 Technical lecture. **Capsugel (Bornem, Belgium) - S. Stegemann**  
*A systematic and rational approach to lipid-based formulation development*

### 10:35-11:05 Coffee Break/Posters and Exhibition

11:05-11:25 Oral communication. **P. Lazzari, Neuroscienze PharmaNess Scarl (Pula, Italy)**  
*Non-ionic microemulsions containing new diazabicyclo opioid compounds with improved antinociceptive activity*

11:25-11:45 Oral communication. **R. Cavalli, University of Turin (Italy)**  
*Dextran multilayer microbubbles as ultrasound triggered doxorubicin carriers*

11:45-12:05 Oral communication. **P. Horcajada, University of Versailles (France)**  
*Nanoparticles of porous iron carboxylates as new drug carriers*

12:05-12:35 Invited lecture. **A.R. Bilia, University of Firenze (Italy)**  
*NMR analysis of aggregates and supramolecular complexes*

### 12:35 -14:30 Lunch/Posters and Exhibition

### Session 4

Chairs: A. Gazzaniga, University of Milano (Italy)/  
G. Ponchel, University of Paris-Sud (**Châtenay-Malabry, France**)

14:30-15:00 Invited lecture. **J. Irache, University of Navarra (Pamplona, Spain)**  
*Poly(anhydride) nanoparticles for oral delivery of poorly available drugs*

15:00-15:20 Oral communication. **S. Mura, University of Paris-Sud (Châtenay-Malabry, France)**  
*Toxicological effects of lung exposition to biodegradable nanoparticles*

15:20-15:40 Oral communication. **A. Müllertz, University of Copenhagen (Denmark)**  
*Characterisation of precipitation and redissolution of a poorly water-soluble drug fenofibrate in SMEDDS during in vitro lipolysis*

15:40-16:00 Oral communication. **O. Chambin, University of Dijon (France)**  
*How the ionic strength of dissolution media can control the release of a drug encapsulated in iota carrageenan coatings*

### 16:00-16:30 Coffee Break/Posters and Exhibition

16:30-16:50 Technical lecture. **Gattefossé (St. Priest, France) - V. Jannin**  
*In vitro evaluation of supersaturation drug delivery systems*

16:50-17:20 Invited lecture. **M. Fresta, University "Magna Græcia" Catanzaro (Italy)**  
*Targeted colloidal lipid-based drug carriers*

### Poster Presentations:

5. **Excipients, biomaterials, bioengineering**
6. **Micro- and nanodispersed systems for drug and gene delivery**

(19:15) 20:15 - 23:30 **Gala dinner at Château Pont Royal**

**Departure from the Conference Centre at 19:15 by coach**

(The coaches will bring you back to the Conference Centre and some main spots in Aix)

## Wednesday, 6 October, 2010

### Session 5

Chairs: U. Conte, University of Pavia (Italy)/J. Irache, University of Navarra (Pamplona, Spain)

09:00-09:45 **Plenary lecture. V. P. Torchilin, Northeastern University, (Boston, MA, USA)**  
*Some novel approaches to the delivery of DNA and siRNA*

09:45-10:15 Invited lecture. **M. Davies, University of Nottingham (United Kingdom)**  
*Nanotechnology in drug delivery*

10:15-10:35 Grants and poster awards

**APGI - SANOFI-AVENTIS Young Investigator Award 2009**

**Nicoleta Butoescu, School of Pharmacy Geneva-Lausanne (Switzerland)**

*Novel approach for intra-articular drug delivery: magnetically retainable biodegradable microparticles*

### 10:35-11:05 Coffee Break/Posters and Exhibition

11:05-11:25 Oral communication. **M. Morpurgo, University of Padova (Italy)**  
*Evaluation of the in vivo fate and targeting potentials of avidin-nucleic-acid nano-assemblies*

11:25-11:45 Oral communication. **M. Simon, University of Zurich (Switzerland)**  
*Tumour targeting with a fusion toxin derived from an EpCAM-specific designed ankyrin repeat protein using polymeric nanoparticles*

11:45-12:15 Technical lecture. **Malvern Instruments (Orsay, France) - M. Terray**  
*Powder dispersion, shape analysis and chemical identification of API*

12:15-12:45 Invited lecture. **C. Valery, Ipsen (Barcelona, Spain)**  
*Peptide self-assembly and formulation: the biomimetic approach*

12:45 Concluding remarks