# SFNan Workshop 2014

## October 2-4, 2014—Porto, Portugal

## **RELEVANT TOOLS AND MODELS FOR THE TRANSLATION OF ADVANCED DRUG DELIVERY**

The goal of this workshop is to bring together leaders in the field from all over the world and stimulate discussions on the relevance of *in silico, in vitro, in vivo* tools and models for the assessment of drug delivery by the oral and parenteral routes. This will allow the participants to discover the state-of-the-art and obtain recommendations from international experts.

## October 2, 2014

#### **SESSION 1: BASIC CONCEPTS**

- Pharmacokinetics and pharmacodynamic concepts—**T. Paehler**, Sanofi, Germany
- Drug delivery through cell membranes: What can we learn from Molecular Dynamics simulations — **M. Tarek**, Nancy, France
- In vitro in vivo correlation a biopharmaceutics tool used in drug development— J.M. Cardot, Clermont-Ferrand, France
- Principles of electroporation for drug delivery—**M-P. Rols**, Toulouse, France
- Electroporation: Characterization, tools and constraints for *in vivo* drug delivery—
   D. Miklavcic, Ljubljana, Slovenia

#### SESSION 2: ORAL ROUTE

- Oral Drug Delivery: Physiological challenges for pharmaceutics. — C. Wilson, Strathclyde, United Kingdom
- Computational Models for Drug Delivery by Oral Administration — M. Bolger, Simulations Plus, Lancaster, USA
- In vitro and in vivo models for assessment of oral drug absorption– P. Artursson, Uppsala, Sweden
   SHORT ORAL COMMUNICATIONS FREE EVENING

## October 3, 2014

#### **SESSION 3: PARENTERAL ROUTE**

Intravenous route (for cancer and brain treatment)

- Physiological barriers to drug delivery by intravenous route (clinical relevance and challenges) - J-M. Devoisselle, Montpellier, France
- In vitro and in vivo models for drug delivery to cancer- K. Greish, Otago, New Zealand
- Preclinical development of electrochemotherapy (ECT) for treatment of tumors—
   G. Sersa, Ljubljana, Slovenia
- Targeting the Blood-Brain Barrier to improve Drug Delivery to Brain —**X. Declèves**, Paris, France
- Challenges of using *in vitro* data for modeling P-glycoprotein efflux in the bloodbrain barrier—**M. Yliperttula**, Helsinki, Finland

#### Alternative routes: Pulmonary, nasal & cutaneous routes

- Drug delivery to the lungs: barriers, challenges and opportunities **R. Vanbever**, Louvain, Belgium
- In vitro models of pulmonary drug disposition are we there yet? —C. Ehrhardt, Dublin, Ireland
  SHORT ORAL COMMUNICATIONS
  GALA DUNNER



Co-organized with COST TD 1104

EP4Bio2Med

## October 4, 2014

## SESSION 3: PARENTERAL ROUTE (CONT'D)

Drug delivery by cutaneous route:

- Challenges in percutaneous drug delivery: Recent developments in formulation and predicting tools — B. Delgado-Charro, Bath, United Kingdom
- DNA electroporation for local delivery of therapeutic proteins and vaccines—
   G. Vandermeulen, Louvain, Belgium
- Current clinical experience on electroporation based treatments and future prospects
   – J. Gehl, Copenhagen, Denmark
- •Nanomedicine revolution: the path through regulatory science into personalized medicine— **R. Gaspar**, Lisboa, Portugal

#### LUNCH AND MEETING CLOSURE



For details on COST TD 1104 please visit: www.electroporation.net

**Participants.** Scientists, postdocs, Masters and PhD students, engineers and technicians interested in the fields of computational/molecular molecular modelling, mammalian cell biology, biochemistry, membrane biophysics, drug delivery, pharmaceutical sciences, biopharmacy.

Class	Fees	Included	
Industry <sup>1</sup>	900€	3 nights (Oct.1-3), 3 lunches (Oct.2-4) Gala Dinner + Porto Wine Tasting Party	
Academy <sup>2</sup>	700€		
Student and COST participants <sup>3</sup>	450€	Conferences, 3 lunches (Oct.2-4) + Gala dinner	



<sup>1</sup> contact us for sponsoring opportunities; <sup>2</sup> public and non-profit organizations, regularly registered for a PhD or post-doctoral program ;<sup>3</sup> reduced fees for students and COST participants (which does not include accommodation at Tiara Park Hotel)

The SFNano Workshop will be held at the **Tiara Park Atlantic Hotel.** For more information about location and accommodation, please visit: http://www.tiara-hotels.com/en/park-atlantic-porto/.

## For registration, please go to http://ecole-sfnano.sciencesconf.org/

**Organizing Committee**: Gillian Barratt, Sylvie Bégu, Didier Betbeder, Anne-Claude Couffin, Harivardhan-Reddy Lakkireddy, Bernard Lebleu, Nathalie Mignet, Marie-Pierre Rols.

For sponsoring SFNano events, please contact D. Betbeder (didier.betbeder@neuf.fr)