

## FITH MEETING PRIN 2010-11

### Identification of optimal delivery systems for the Nucleic Acid Based Drugs and study of their action mechanisms in some models of human inflammatory and tumor pathologies

- Salerno 14-15 Settembre 2016 -  
<http://gruppotpp.unisa.it/en/prin-2010-11-en/>

*Monday 14th September 2015*

09:30 09:45 Welcome and Introduction

09:45 10:30 Nicola Elvassore Patient-specific human organs on a chip

#### **Part I Biomedical Aspects**

10:30 11:00 Barbara Dapas, Rossella Farra, Gabriele Grassi. Aggiornamento sulle attività di “drug delivery” e “drug characterization”

11:00 11:30 Coffe Break

11:30 12:00 Ornella Piazza/Ilaria Russo Role of Cyclin D1 in Inflammatory Diseases and Potential of its Downregulation by siRNAs

12:30 13:00 Sante Di Gioia Modulazione di HMGB1 in cellule epiteliali respiratorie mediante siRNA veicolato da nanoparticelle

13:00 14:30 Lunch

#### **Part II New materials and new methods for siRNAs delivery**

14:30 15:00 Rina Cavallaro New smart polycation derivatives of Inulin and Polyhydroxyethylaspartamide for siRNA delivery

15:00 15:30 Piersandro Pallavicini Gold Nanostars: updates on coatings for cell interactions, drug delivery and photothermal action

15:30 16:00 Sabrina Bochicchio, Annalisa Dalmoro Lipidic and polymeric nano carriers towards siRNA delivery

16:00 16:30 Coffe Break

16:30 17:00 Domenico Larobina Analysis of inner relaxation, water diffusion, and syneresis in alginate gel

17:00 17:30 Valerio Brucato Bioreattore a doppio: flusso test di colture cellulari 3D

17:30 18:00 Discussion

19:30 Partenza navetta dal GH verso la cena sociale

*Tuesday 15th September 2015*

**Part III Engineering Aspects**

09:30 10:00 Rosa D'Apolito Red blood cells affect the margination of microparticles in microcapillaries

10:00 10:30 Roberto Abbiati Application of pharmacokinetic modeling to personalized medical treatments

10:30 11:00 Michela Abrami Fibrosi cistica e LF-NMR

11:00 11:30 Coffe Break

11:30 12:00 Sara Cascone, Diego Caccavo Analysis of the drug delivery from hydrogel based systems

12:00 12:30 Discussion and conclusions