

NMR DAY on Drug Discovery and Delivery: New Approaches

Organisers: Marina Veronesi, Stefania Girotto and Luca Mollica (IIT, Genova)

Over the past decades NMR has emerged as a powerful tool for academic and industrial pharmaceutical research. NMR has been successfully used in several fields such as drug discovery, drug delivery and diagnostics. The combination of NMR with Computational and other Biophysical methods holds a great potential for the development of new therapies for human diseases. The purpose of the workshop is to present some of the latest approaches in drug discovery and delivery both in academia and industry.

Program

9.00 - 9.50 *Registration*
9.50 - 10.00 *Opening: GIDRM board*
10:00 - 10:20 *Prof. Roberto Cingolani, Scientific Director of IIT*

10.20-10.50 **Dr. Isabelle Krimm (University of Lyon, CNRS, Lyon, France)** *“Overview of liquid-NMR approaches for fragment-based lead discovery”*
10.50-11.20 **Dr. Giovanna Musco (S. Raffaele Scientific Institute, Milan, Italy)** *“Our experience with NMR metabolomics and polycystic kidney disease: from a serendipitous observation to a possible therapeutic approach”*
11.20-11.50 **Dr. Marco Guerrini (Istituto Ronzoni, Milan, Italy)** *“New methods for the analysis of heterogeneous polysaccharides - lessons learned from the heparin crisis”*
11.50-12.20 **Dr. Francesco Berti (Novartis Vaccines, Siena, Italy)** *“NMR assays for bacterial polysaccharide-based vaccines”*
12:20-12:50 **Prof. Ernest Giralt (IRB Barcelona, Barcelona, Spain)** *“Peptides as molecular interactors at protein surfaces”*

12.50-14.00 **Lunch and visit of IIT laboratories**

14.00-14:30 **Prof. Silvio Aime (University of Turin, Turin, Italy)** *“MRI guided drug delivery”*
14.30-15.00 **Dr. Marco Sette (University of Rome Tor Vergata, Rome, Italy)** *“Quantitative 2D NMR in Drug Research”*
15.00-15.30 **Dr. Anna Codina (Bruker Biospin, Coventry, UK)** *“Bruker NMR Solutions for Pharmaceutical Industry”*
15.30-16.00 **Dr. Gaetano Barbato (Promedica Bioelectronics S.r.l., Rome, Italy)** *“Ultrasound boosted drug delivery in cells”*
16.00-16.30 **Dr. Luigi Calzolari (European Joint Research Centre, Ispra, Italy)** *“Characterization of nanoparticle-protein complexes”*
16.30-17.00 **Dr. Paolo Decuzzi (Istituto Italiano di Tecnologia, Genova, Italy)** *“Polymeric nanoconstructs in cancer theranostics”*

Information

For organizational reasons **only the registrations submitted by October 2nd, 2015, will be considered (online form available at www.gidrm.org).**
The registration fee can be paid also on site the day of the workshop.

Registration fees:

- 50 € for non-GIDRM members (the fee includes GIDRM 2015 subscription)
- 30 € for GIDRM 2015 members

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