

Joint Colloquium NIS – Centro “G. Scansetti”

Solid/living-matter interaction at the nano-level: nano-materials toxicity, biocompatibility, bioactivity

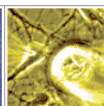
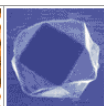
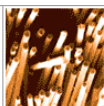
Torino, January 11th (afternoon) - 12th (morning), 2007

Dept. of Chemistry IFM, via P. Giuria, 7
Aula Avogadro

PROGRAMME

January 11th

- 14.00–14.30 **Welcome and introduction** – Bice Fubini, Adriano Zecchina
Chairperson: Bice Fubini
- 14.30-15.15 **Dominique Lison**, Univ. Catholique de Louvain, Brussels, Be
Respiratory toxicity of multiwall carbon nanotubes
- 15.15-15.30 **Ivana Fenoglio**, Centri Scansetti e NIS, Università di Torino
Surface Reactivity of Multiwall Carbon Nanotubes
- 15.30-15.45 **Elisabetta Aldieri**, Centro Scansetti, Università di Torino
Nanocrystals of Synthetic Chrysotile as Solid Model of Cytotoxicity
- 15.45-16.15 **Enrica Vernè**, Politecnico di Torino
Bioactive materials for guided bone reconstruction and controlled drug delivery
- 16.15-16.30 **Luigi Costa**, Centro NIS, Università di Torino
Electrospun polymer nanofibers and nanospheres
- 16.30-17.00 Coffee break
Chairperson: Gianmario Martra
- 17.00-17.45 **Claire-Marie Pradier**, Univ. P. et M. Curie, Paris, F
Protein adsorption, protein immobilisation and protein activity on metal surfaces; applications to biocompatibility and biosensors
- 17.45-18.00 **Mara Ghiazza**, Centri Scansetti e NIS, Università di Torino
Copper traces in quartz induce different effects in two cells lines
- 18.00-18.30 **Piera Sabatino**, Università di Bologna, I
Serum Albumin Structural Modifications Induced by Surface Interactions with Synthetic Chrysotile and Hydroxyapatite Nanocrystals
- 18.30-18.45 **Raffaella Ceschino** (Centri Scansetti e NIS, Università di Torino)
Nanosizing of iron oxide particles: appearance and enhancement of reactivity towards biological molecules and cells



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PROGRAMME

January 12th

Chairperson: Claudio Morterra

- 9.00-9.45 **María Vallet-Regí**, Univ. Complutense de Madrid, E
Ceramic matrices as drug delivery systems
- 9.45-10.00 **Valentina Cauda**, Politecnico di Torino
Tuning up the drug delivery rate from different morphologies and pores diameter mesoporous silica
- 10.00-10.15 **Valentina Aina**, Centro NIS, Università di Torino
Characterization studies of silica-based inorganic biomaterials
- 10.15-10.45 **Marco Morra, C. Cassinelli**, Nobil BioRicerche, Srl, Villafranca d’Asti
Combining nano- and microtopography with biochemical modifications of Ti implant surfaces
- 10.45-11.15 Coffee break
- 11.15-11.45 **Marta Cerruti**, North Carolina State University, USA
Physico-chemical characterization of the surface of biomaterials
- 11.45-12.00 **Gianluca Malvasi**, Università di Modena
A new strategy for bioactive glasses development
- 12.00-12.15 **Claudia Busco**, Università del Piemonte Orientale e NIS
Ca-species at the surface of amorphous silica as model sites for the investigation of the surface properties of bioactive glasses
- 12.15-12.45 **Daniele Pressato**, Finceramica, Faenza
Nanoscience and Biomimetic Scaffolds as New Therapeutical Solutions in the Regenerative Medicine: Clinical Experience
- 12.45-13.00 **Luca Bertinetti**, Centro NIS, Università di Torino
Surface structure and hydration of nanosized apatites with different composition
- 13.00-13.15 **Selanna Martorana**, ISTECCNR, Faenza
Carbonate-Apatite Porous Bioceramics: Mechanical Properties