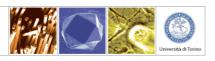


Conclusions







Health effects of Nanoparticles

Specific Toxicity of some Nanoparticles and Physico-Chemical Basis for Testing strategies

A joint Colloquium NIS – Centro "G. Scansetti" Torino, september 19th, 2006

Dipartimento di Chimica IFM, via P. Giuria, 7 – Torino – Aula Diagonale

Organizers: Ivana Fenoglio, Bice Fubini, Maura Tomatis – NIS & Centro "G. Scansetti", Dip. Chimica IFM – Università di Torino

In the past few years, both media and scientific journals, have given much emphasis to the potential toxicity of the nanoparticles generated by the new nanotechnologies. A general fear was raised that they might turn up, similarly to asbestos, in an occupational and environmental disaster, or become a debated issue, like OGM.

The idea, however, that all nanoparticles are harmful or similarly hazardous — irrespective from their chemical composition and micromorphology - can not be accepted by the scientific community who conversely suggests that each family of nanosized particles should be studied, in view of its potential toxicity, in a systematic way and with a multidisciplinary approach. A new discipline, "Nanotoxicology" has thus been established.

This colloquium deals with some aspects of Nanotoxicology, others will be covered in future colloquia.

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	PROGRAMME
Chair: Bice Fu	ubini
14.00	Welcome: Adriano Zecchina
Nanotoxicolo	gy
14.10–15.10	Nancy Monteiro-Riviere – North Carolina State University
	Center for Chemical Toxicology Research and Pharmacokinetics
	"Nanomaterial Interactions with Skin"
15.10–15.30	Qamar Rahman – Fibre Toxicology Division, Industrial Toxicology
	Research Centre, Lucknow and Integral University, New Delhi
	"Nanotoxicology: a threat from Ultrafine Particles"
15.30–15.50	Stefano Bellucci – INFN-Laboratori Nazionali di Frascati
	"Applications of Carbon Nanotubes-Silica Nanoparticles Composites to Biology and Medicine"
15.50–16.10	Bice Fubini – NIS & Centro "G. Scansetti", Dip. Chimica IFM – Università di Torino
	"Chemical Aspects in Nanotoxicology"
Coffee break	
	ization to tackle problems raised by nanotechnology
16.40–17.00	Iolanda Olivato – Centro ECSIN, Veneto Nanotech
	"ESCIN – European Center for the Sustainable Impact of Nanotechnology: Perspectives and Objectives"
•	of nanoparticles for toxicology tests
17.00–17.15	Giorgio Lesci – Dip. Chimica "G. Ciamician"- Università di Bologna
	"Synthesis and Characterization of Asbestos Nanofibres"
17.15–17.30	Francesco Turci – NIS & Centro "G. Scansetti", Dip. Chimica IFM – Università di Torino
	"Synthetic Asbestos Nanofibres: a Model Solid for Studies on Asbestos Toxicity, Chemical Aspects"
17.30–17.45	Elena Gazzano – Centro "G. Scansetti", Dip. Genetica, Biologia e Biochimica – Università di Torino
	"Synthetic Asbestos Nanofibres: a Model Solid for Studies on Asbestos toxicity, Biological Aspects"
17.45–18.05	Domenica Scarano – NIS, Dip. Chimica IFM – Università di Torino
	"Variability in Composition, Structure and Size of Carbon Nanotubes"
18.05–18.25	Daniele Marchisio – Dip. S.M.I.C. – Politecnico di Torino
	"From Micro- to Nano-Particles: Strategies to control Surface Properties and Particle Size in Precipitation
	Processes"