

Nanotoxicology 2007

PROGRAMME AT A GLANCE

THURSDAY 19TH APRIL			
08:30-08:40	Welcome Speech Marcomini, A	16:35-16:50	De Nicola, M. Cytotoxicology of carbon nanotubes: the effects on viability/apoptosis, proliferation and intracellular redox equilibrium depend on the cell type and on the size and type of nanotubes
08:40-09:10	Plenary Presentation , Maynard, A Nanotoxicology: Science, society and policy	16:50-17:05	Cohn, C.A. Carbon nanoparticle-induced formation of reactive oxygen species
09:10-09:35	NP Characterisation Session Keynote Presentation Pui, P. Aerosol Delivery of Single Nanoparticles for In vitro and In vivo Exposures?	17:05-17:20	Blank, F. Interaction of fine particles and nanoparticles with lung cells: a study with an epithelial airway model
09:35-09:50	Pojana G Characterisation: The dark side of Nanotoxicology	17:20-17:35	McDonald, J. Pulmonary and Systemic Toxicity Associated with Inhalation of Carbon Nanotubes
09:50-10:05	Linse S. Formation of amyloid fibrils in presence of nanoparticles: -2-microglobulin fibrillation	17:35-18:45	Discussion of the day
10:05-10:30	Exposure Assessment Session Keynote Presentation . Aitken, R. Exposure to nanoparticles: What, When, How?	FRIDAY 20TH APRIL	
10:30-10:45	Demou, E. Investigating Exposure of Workers' and Researchers in Nanoparticle Production Sites	08:30-08:55	Toxicology Session II Keynote Presentation . Donaldson, K. Nanoparticle toxicology :The end of the beginning
10:45-11:15	Coffee Break	08:55-09:10	Stoeger, T. The Cause of Particle Related Oxidative Stress: Particle Surface Activity or Bioavailability of Organic Compounds Drives Inflammatory Response to Carbonaceous Nanoparticles
11:15-11:30	Dekkers, S. From Hazard characterisation to human risk assessment: Special attention needed for nanostructured materials?	09:10-09:25	Cunningham, M.J. OMICs Expression Profiling of Nanomaterials for In Vitro Prediction of Safety Assessment: A Systems Biology Approach
11:30-11:45	Semmler-Behnke, M. uptake of 1.4 nm Versus 18 nm Gold particles by secondary target organs is size dependent in control and pregnant rats after intratracheal or intravenous application	09:25-09:40	Duffin, R. In Vitro Correlates of Inflammogenicity in a Panel of Metal Oxide Nanoparticles
11:45-12:10	Toxicology Session I – Keynote Presentation . Kreyling, W. Macroscopic and microscopic concepts of nanoparticle dosimetry	09:40-09:55	Johnston, H. Evaluating Nanoparticle uptake by hepatocytes in vitro
12:10-12:35	Riviere, J. Pharmacokinetic modeling of quantum dot nanoparticle biodistribution in isolated perfused skin	09:55-10:10	Stone, V. Comparison of a variety of carbon nanotubes and nanofibres to induce the production of inflammatory mediators and frustrated phagocytosis by macrophages in vitro
12:35-12:50	De Jong, H.W. Size effects of gold nanoparticles on organ distribution as determined by ICP-MS.	10:10-10:25	Jacobsen, N.R. Carbon black increase mutant frequency in MML cell line
12:50-14:00	Lunch	10:25-10:40	Kagen, V. Regulation of Inflammatory Response to Carbon Nanotubes via Targeted Recognition by Phagocytosing Cells.
14:00-14:15	Chaudhry. Potential Consumer Safety And Regulatory Issues In Relation To Processes, Products And Applications Of Nanotechnology For Food And Food Packaging	10:40-11:00	Coffee Break
14:15-14:30	Monteiro-Riviere, N. Biodistribution of quantum dot nanoparticles in isolated perfused skin and in flow-through diffusion cells.	11:00-11:25	Castranova, V. Inhalation of Ultrafine Titanium Dioxide Augments Particle-Dependent Microvascular Dysfunction
14:30-14:45	Borm, Paul J.A. Exposure to nanoparticles causes changes in brain function of human volunteers measured by qeeg	11:25-11:40	Boland, S. The cytotoxic, oxidative and inflammatory potentials of nanoparticles on the respiratory epithelium in vitro depend on composition and particle size
14:45-15:00	Chen, C. Translocation of Inhaled TiO2 nanoparticles into the Central Nervous System associated with potential damage on murine brain	11:40-11:55	Simon, A. In vitro toxicity of nanoobjects on A549 pneumocytes: impact of physico-chemical characteristics.
15:15-15:30	Kemp, S.J. Differential uptake of polystyrene nanoparticles by human alveolar epithelial type 1 and type 2 cells in vitro	11:55-12:10	Gimino-Reale, G. Comparative Toxicogenomic Analysis of Human Keratinocytes Exposed to Carbon Nanotubes
15:30-15:45	Bräuner, E.V. Size does matter for particle-induced systemic oxidative stress and vascular response in controlled human exposure scenarios	12:10-12:25	Folkmann, J.K. Oxidatively damaged DNA and inflammation in dyslipidemic ApoE-/- mice: effect of particle exposure
15:45-16:20	Coffee Break	12:25-12:40	Veneto Nanotech
16:20-16:35	Wei, T. TiO2 nanoparticles activate the microglia and induce neuronal apoptosis: involvement of nitric oxide	12:40-14:00	Lunch
		14:00-14:25	Shvedova, A. In vivo Study of Pulmonary Toxicity of Single-Walled Carbon Nanotubes.

The Conference Programme is subject to change. Please check the website for the most recent version.

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14.25-14.40	Vallhov, H. The effect of nanoparticles on human dendritic cells	12:00-12:15	Rotoli, B.M. In vitro assessment of the interaction between carbon nanotubes and the lung barrier: preliminary results with a co-culture approach
14.40-14.55	Park, B. An SME's approach to safety assessment	12:15-12:30	Ah-Kau, Ng. Cytotoxic and Pro-inflammatory Effects of 15 nm Gold Nanoparticles
14.55-15.10	Greenwell, L. Nano-Risk Assessment – The Industrial Challenge	12:30-12:45	Colognato R.A. Analysis of cobalt ferrite nanoparticles induced toxicity on human peripheral lymphocytes: comparison of size and organic grafting-dependent effects
15.10-15.25	Wallin, H. Activities at the National Research Centre for the Working Environment	12:45-14:00	Lunch
15.25-15.40	Falck, G. Genotoxicity of nanosized and coarse titanium dioxide in human bronchial epithelial cells	14:00-14:15	The way forward: US-EU Collaborative Research: Tinkle, S. Harnessing the Power of Nanotechnology for Human Health: The NIH-NIEHS Strategy
15.40-15.55	Lindberg, H. Genotoxicity of carbon nanotubes in human bronchial epithelial cells	14:15-14:45	Aguar, P. FP7: Research topics related to impact assessment of nanoparticles: current opportunities and future activities
15.55-16.20	Coffee Break	14:45-15:00	Nelson, A. Biosensors for Nanomaterials based on membrane organisation
16:20-16:35	Fubini, B. Use or misuse of surface area in nanotoxicology	15:00-15:15	Kane, A. Toxicologically relevant characterization of carbon nanomaterials
16:35-16:50	Skouloudis, A.N. Reconsidering particle exposure for population at the vicinity of motorways or at roads with heavy traffic	15:15-15:40	Coffee break
16:50-17:05	Berges, M. Regulating uncertainty: comparing exposure levels to ultrafine – and nanoparticles in various branches of industry and the applied regulations	15:40-16:40	Discussion of the day
17:05-17:20	Housiadas, C. Practical integrated assessment of physicochemical, dosimetric and toxicological characteristics of airborne particulate matter in an industrial workplace		End of Meeting
17:20-17:35	Worth, A. Towards in silico approaches for investigating the activity of nanoparticles		
17:35-18:45	Discussion of the day		
19:00	Evening Reception and Launch of Nanotoxicology Journal		

SATURDAY 21ST APRIL

08:30-08:55	Eco-Toxicology Session I Keynote Presentation . Klain, S. Toxicity of Nanoparticles to Aquatic Invertebrates
08:55-09:10	Baun, A. Interaction of C60 nanoparticles with xenobiotic organic compounds – toxicity and bioaccumulation in Daphnia magna
09:10-09:25	Gao, Y. Bio-distribution and toxicological effects of copper nanoparticles in aquatic animal: caenorhabditis elegans
09:25-09:40	Rosenkranz, P. Effects of a model nanoparticle and manufactured nanoparticles on Daphnia magna
09:40-09:55	Landsiedel, R. Aquatic Fate and Toxicity of Nanoparticles used in Sunscreens
09:55-10:10	Zhang, X. The Impact of TiO2 Nanoparticles on Bioaccumulation of Arsenic in Fish
10:10-10:35	Eco-Toxicology Session II Keynote presentation . Handy, R. Toxic Effects of Carbon Nanotubes and Titanium Dioxide Nanoparticles to Rainbow Trout (Oncorhynchus mykiss)
10:35-11:05	Coffee Break
11:05-11:30	Eco-Toxicology Session III Keynote Presentation . Belkin, S. Microbial canaries for risk monitoring
11:30-11:45	Kammer, F. v.d. Engineered nanoparticles in the Aquatic Environment – Aggregation Behaviour of TiO2 Nanoparticles studied in a Simplified Aqueous Test Matrix (SAM)
11:45-12:00	Gatti, AM. In-vivo toxicity of 5 types of nanoparticles: ESEM evaluation

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WHO SHOULD ATTEND?

Toxicologists, eco-toxicologists, metrologists, risk and exposure assessors, nanotechnology scientists, members of industry and governmental regulatory agencies, societal stakeholders will not want to miss this event!

SPONSORSHIP OPPORTUNITIES

If you would like details about the sponsorship and exhibition opportunities available at Nanotoxicology 2007, please contact Yvonne Oliver via phone, +44 (20) 701 77622, or mail at: Yvonne.Oliver@informa.com

VENUE AND TRAVEL INFORMATION

The island of San Servolo is located in the Venetian lagoon, between Venice city centre and the island of Lido. It takes 10 minutes by boat to reach Piazza San Marco, the heart of Venice.

HOTELS AND ACCOMMODATION

To secure accommodation for the event please contact one of the following:

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