



## 2<sup>nd</sup> NanoImpactNet Conference

For a healthy environment in a future with nanotechnology

Lausanne, Switzerland / 9-12 March 2010



Training school: Handling protocols and standardisation of nanomaterials in toxicological research

Session 1: Interaction between nanomaterials and biological barriers

Session 2: Nanomaterial behaviour with regard to environmental and physical barriers

Session 3: Quality control in nanomaterial research

Session 4: Nanotechnological tools for impact assessment

NanoImpactNet is the European network on the health and environmental impact of nanomaterials. It is a platform for exchange about research ideas and to bring together scientists, industry, policy makers and civil society to ensure the safe and responsible development of nanomaterials.

Preliminary Programme

### Registration fees

	Training School	Conference/day	Banquet
Academic & NGO	100 CHF	100 CHF	100 CHF
Government & Industry	300 CHF	300 CHF	100 CHF

### Venue

CHUV, Lausanne, Switzerland

### How to register

Deadline: 26 February 2010.  
To register, go to [http://www.nanoimpactnet.eu/object\\_class/nano\\_lausanne2010conference.html](http://www.nanoimpactnet.eu/object_class/nano_lausanne2010conference.html)

### How to submit an abstract

Deadline: 11 December 2009.  
To submit an abstract, go to [http://www.nanoimpactnet.eu/object\\_class/nano\\_lausanne2010conference.html](http://www.nanoimpactnet.eu/object_class/nano_lausanne2010conference.html)

### How to propose a symposium

Deadline: 11 December 2009.  
To propose a symposium, go to [http://www.nanoimpactnet.eu/object\\_class/nano\\_lausanne2010conference.html](http://www.nanoimpactnet.eu/object_class/nano_lausanne2010conference.html).

### Contact

If you have a general question about our Network or if you would like to have more information, send an email to [info@nanoimpactnet.eu](mailto:info@nanoimpactnet.eu).

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### Scientific committee

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### Hosts and Organizers

Michael Riediker, IST, CH (Coordinator)  
Nathalie Boschung, IST, CH  
Martin Clift, UBERN, CH  
Peter Gehr, UBERN, CH  
Darren Hart, IST, CH  
Barbara Rothen-Rutishauser, UBERN, CH



## 9 March 2010—Training School: Handling protocols and standardization of nanomaterials in toxicological research

### Current international best practice in nanoparticle handling From research to regulation: closing the gap

This training school will address higher level issues of 'best practice for safe handling of nanomaterials' to ensure that students and postdoctoral researchers working with nanomaterials are up to date with international best practice. 'Closing the gap between research and regulation' will identify the needs of the international regulatory agencies for nanotechnologies and look at developing strategies to see that NanoImpactNet research and outputs are designed and implemented to ensure that they fulfil their needs. This will be key to ensuring that NanoImpactNet plays a leading role in framing nano-regulation in Europe. This approach is in alignment with the cross-cutting themes of the NanoImpactNet Integrating Conference 2010, which have been selected to address key issues in nanosafety research that span human health, ecotoxicology and life-cycle assessment.

## 10-12 March 2010— Integrating conference

We are accepting abstracts for the 5 following sessions. Find more information on [www.nanoimpactnet.eu](http://www.nanoimpactnet.eu).

### Session 1: Interaction of nanomaterials with biological barriers

**Sub-session A:** Barriers in the human body. How nanoparticles interact with barriers in the lungs, gut, brain, as well as many other bodily barriers. Aspects of nanomaterial uptake, intracellular localisation and cellular fate in specific cell types found in these organs.

**Sub-session B:** Barriers in the environment and in different species. How nanomaterials interact with various environments and species in different media and situations. How uptake differs between species. How nanomaterials enter species (exposure routes) and where they locate within organisms following exposure and uptake.

### Session 2: Nanomaterial behaviour with regard to environmental and physical barriers

Nanomaterial exposure in the environment, taking into consideration the ability of nanomaterials to be transported through different environments based on their different surface properties. Also, how particles are able to cross physical environmental barriers and engineered barriers, such as protective equipment.

### Session 3: Quality control in nanomaterial research

Quality control in research: nanomaterial suspension and exposure. Agglomeration and de-agglomeration of nanomaterials in both air and liquids. Issues surrounding protein absorption by the surface of nanomaterials. Quality control of nanomaterial suspensions and exposure systems.

### Session 4: Tools for impact assessment

Nanotechnology as a tool for hazard identification and/or risk assessment, thus addressing how research in the area of nanotechnology safety is facilitating the implementation and use of these products by society. This session also addresses the life cycle of products, materials and risk assessment methodologies.

### Session 5: From research to policy

Nanomaterial research and development is not only determined by academic and industries but also by governments and policy makers. Scientists can contribute to better policy by communicating research findings more effectively.

### Special stakeholder session

From NGOs to the European Parliament, there is rising concern about the possible health impacts of nanoparticles in food and nanomaterials in food-related products. NanoImpactNet invites stakeholders to contribute to the debate on how this sensitive and controversial issue can be communicated to the public in the near future. Invited speakers will lead the discussions.

### Parallel discussion sessions/symposia

We invite participants to propose and organise their own symposium on a theme of interest to the NanoImpactNet community. Symposia can be valuable for promoting scientific interchange and developing new concepts. To submit a proposal, complete this form on [http://www.nanoimpactnet.eu/object\\_binary/o3050\\_Symposium\\_Proposal.pdf](http://www.nanoimpactnet.eu/object_binary/o3050_Symposium_Proposal.pdf). and send it no later than 11 December 2009. If your application is accepted, it will be your responsibility to encourage participants to attend your symposium.

### Poster session & Best poster presentations and award ceremony

NanoImpactNet will provide a best poster award to the Early Stage researchers who have displayed their work most effectively. Each participant in the conference will have a vote. Details of the poster award will be available on [www.nanoimpactnet.eu](http://www.nanoimpactnet.eu).