

For immediate release

Dated: 27th October

SWEDEN HOSTS SYSTEMS BIOLOGY CONFERENCE

The Nobel Forum in Stockholm will this year be hosting the prestigious “Systems Biology in Nanosafety Research” conference, which takes place on the 9th and 10th of November.

The aim of this two-day meeting is to provide an overview of state-of-the-art systems biology approaches in nanosafety research and how it is leading to ground-breaking nanomaterials discoveries.

Systems biology, defined as the computational and mathematical modelling of complex biological systems, is increasingly being applied in the field of nanosafety research for observing and predicting the biological perturbations inflicted by exposure to engineered nanomaterials. With nano materials being used in ever greater numbers in virtually all aspects of life, from clothing and cosmetics to construction and transport, it is becoming increasingly important to understand how they impact on our health and the environment – and systems biology is seen as a critical tool in this understanding.

The conference will feature 100 participants including 20 speakers selected from a variety of European countries as well as the US, Canada and China. Several EU-funded nanosafety research projects will also be represented among the speakers, including NANOMMUNE, NANOMILE, NANOSOLUTIONS, SUN, eNANOMAPPER, and MARINA.

The event will be the third Mini-Conference on Nanotoxicology, the first of which was held in 2006. The 2015 meeting is the first to focus specifically on systems biology, a topic that is of central importance for the FP7-NANOSOLUTIONS project, one of the organisers. Professor Olli Ikkala from Finland and Professor Martin Philbert from the US will deliver keynote speeches.

A wide range of systems biology topics will be covered during the conference, including omics technologies and computational approaches, and the application of these tools and approaches in nanosafety research. Attendees will also be able to hear about the current work of NANOSOLUTIONS and the exciting plans they have for the next stages of the project, which includes the development of a Safety Classifier, a tool that will be used to predict hazard potential in all new nano materials.

The conference has been organised by the NANOSOLUTIONS project coordinator Kai Savolainen from the Finish Institute of Occupational Health (FIOH) in collaboration with the Working Group on Systems Biology of the EU Nanosafety Cluster, which is also hosted by the FP7-NANOSOLUTIONS project. The meeting chair will be Professor Bengt Fadeel of the Karolinska Institutet and his co-chair will be Professor Juha Kere.

Register for the conference [here](#)

For more on The Systems Biology Conference contact **Audrey Gallud** sysbio-nano@imm.ki.se

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