

CEC05: Nanotoxicology

Chairs:

Ulla Vogel, Denmark | N. N.

Presentations:

Genotoxicity of nanomaterials

Julia Catalán Rodríguez, Finnish Institute of Occupational Health, Helsinki, Finland

Nanomaterial-induced inflammation, acute phase response and risk of cardiovascular disease

Ulla Vogel, NRCWE, Copenhagen, Denmark

Toxicity of nanomaterial in the user-phase

Anne Saber, NRCWE, Copenhagen, Denmark

In vitro-based high-throughput screening and toxicogenomics to support effective safety evaluation of engineered nanomaterials

Penny Nymark, Karolinska Institutet, Institute of Environmental Medicine, Stockholm, Sweden

Abstract:

The CEC will give an overview of the current state-of-the art of nanosafety. The organisers of the CEC are past and present members of 25 EU projects related to nanosafety. The CEC will include lectures covering definition and exposure to nanomaterials, the toxicology of nanomaterials with focus on inhalation exposure and risk of cancer and cardiovascular disease as well as on overview of current risk assessment of engineered and process-generated nanomaterials. In addition, examples of toxicity of nanomaterials in the userphase will be described, and in the last lecture, toxicity testing of nanomaterials using high-throughput screening and toxicogenomics will be described.