

TITLE

Nanosafety: Towards Safer and Sustainable by Design
Nanomaterials

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ABSTRACT

Nanosafety approaches based on a safe(r) and sustainable by design development of nanomaterials, seen from a life-cycle perspective, represent an essential resource for a strong and sustainable national nanotechnology-related industry and academic research. Science-based information reflecting real-life exposure, interdisciplinarity and dialogue constitute the basis for an adequate hazard assessment and risk evaluation of nanosized materials. This talk will provide an overview on the current state of nanotoxicology and nanosafety, research fields that have emerged with the aim to address the needs of a responsible development of nanotechnology with regards to human and environmental health protection. The development of new testing methods and biological systems for scientific and regulatory needs pertaining to human safety will be presented.