

Leibniz Nanosafety

Nanotechnology keeps on improving our everyday life and also offers solutions in fields such as energy technology and nanomedicine. At the same time, questions about nanosafety are becoming increasingly important. For example: How do cells respond to nanoparticles? How can we design safe nanomaterials?

Leibniz Research Alliance Nanosafety



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The Leibniz Research Alliance “Nanosafety” deals with safety and security issues regarding nanomaterials and nanoproducts. Central topics include understanding the effects induced by nanoparticles, developing safe nanomaterials, and explaining key issues in the context of nanotechnology.

The research focuses on four primary goals:

- Decoding the mode of action of nanoparticles to deduce key principles for the prediction of effects triggered by nanoparticles and the design of safe nanomaterials
- Developing nanomaterials for counterfeit protection
- Furthering the public discourse by providing insight into information reception and knowledge communication on nano-related questions
- Setting up a digital infrastructure to manage research data on nanosafety

The alliance is an association of six institutions which focus on material sciences, health and toxicology, pneumology, the working environment, scientific databases, and knowledge communication.

PARTNERS

FIZ Karlsruhe – Leibniz Institute for Information Infrastructure (FIZ KA) • Knowledge Media Research Center (KMRC) • Leibniz Institute for New Materials (INM) • Leibniz Research Center for Working Environment and Human Factors (IfADo) • Leibniz Research Institute for Environmental Medicine (IUF) • Research Center Borstel – Leibniz-Center for Medicine and Biosciences (FZB)
