

Federal Institute of Occupational Health and Medicine (BAuA) Nanotechnology - BAuA activities

Follow up of the congress in Bonn (October 2005):

- survey and characterisation of workplaces and exposure (cooperation with German chemical industry association (VCI))
- code of practice (in cooperation with VCI)
- program/strategy of toxicological testing
- discussion group for cases of occupational diseases

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BAuA research on nanoparticles is part of the program on fine and ultrafine dusts

Toxicology:

- Intratracheal instillation of 19 fine/ultrafine particles in rats
- Toxicity of fibers and particles in the peritoneum of rats
- Deposition of dust in human respiratory tract compared to rats
- Experimental study on the deposition of ultrafine particles in the nose of rats

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Toxicology (2):

- Mechanism of toxicity of fine and ultrafine dust
 - Dispersion and retention of agglomerates
 - Immunology
 - Mutagenicity
- Study on sensitivity and specificity of in vitro tests

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Occupational medicine

- Effects of ultrafine particles on the respiratory tract (epidemiologic pilot study)

Measurement technique

- Characterization of ultrafine particles for Occupational Safety (part 2)
- Measurement of and analysis of ultrafine particles

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