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Short presentation

Primary fields of research

My primary focus is the toxicological effects of exposure to environmental factors. The research focuses is on mechanisms of action of environmental agents, using cell cultures, experimental laboratory models and controlled human exposures. The outcome aim to develop better models for understanding of the following:

Molecular and functional assessment of exposure, susceptibility and effects

Experimental in vitro and in vivo model systems

Alternatives to animal experimentation

Current research

Use of in vitro models to investigate cell-cell interactions as well as cell exposure interactions. The primary use of the cell models are investigation of the effect of exposure to different types of particle such as air pollution and combustion particles as well as micro- and nanoplastic particles. Major focus is on cellular effects such as oxidative stress, inflammation and DNA damage.

Key word

Particle toxicology

Nanoparticles

Nanoplastic

Mikroplastic

Nanomedicine

co-cultures

Oxidativ stress

DNA damage

Cell-cell interaction

Cell-particle interaction

Pulmonary effects

Cardiovascular effects

Employment

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Research outputs

Acute phase response following pulmonary exposure to soluble and insoluble metal oxide nanomaterials in mice

Torero Gutierrez, Claudia Andrea, Loizides, C., Hafez, I., Brostrøm, A., Wolff, H., Szarek, J., Berthing, T., Mortensen, A., Jensen, K. A., Roursgaard, Martin, Saber, A. T., Møller, Peter, Biskos, G. & Vogel, U., 2023, In: Particle and Fibre Toxicology. 20, 1, 25 p., 4.

Comparison of acute phase response in mice after inhalation and intratracheal instillation of molybdenum disulphide and tungsten particles

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Exposure to nanoplastic particles and DNA damage in mammalian cells

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Genotoxicity by rapeseed methyl ester and hydrogenated vegetable oil combustion exhaust products in lung epithelial (A549) cells

Rothmann, M. H., Møller, Peter, Essig, Y. J., Gren, L., Malmborg, V. B., Tunér, M., Pagels, J., Kraus, A. M. & Roursgaard, Martin, 2023, In: Mutagenesis. 38, 4, p. 238-249 12 p.

Nanoplastics from ground polyethylene terephthalate food containers: Genotoxicity in human lung epithelial A549 cells

Alzaben, M., Burve, R., Loeschner, K., Møller, P. & Roursgaard, Martin, 2023, In: Mutation Research - Genetic Toxicology and Environmental Mutagenesis. 892, 9 p., 503705.

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Genotoxicity of Particles From Grinded Plastic Items in Caco-2 and HepG2 Cells

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Biomarkers of DNA Oxidation Products: Links to Exposure and Disease in Public Health Studies

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Genotoxicity of multi-walled carbon nanotube reference materials in mammalian cells and animals

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Inflammatory Response, Reactive Oxygen Species Production and DNA Damage in Mice After Intrapleural Exposure to Carbon Nanotubes

Wils, Regitze Sølling, Jacobsen, N. R., Vogel, U., Roursgaard, Martin & Møller, Peter, 2021, In: *Toxicological Sciences*. 183, 1, p. 184-194 11 p.

Inhalation of hydrogenated vegetable oil combustion exhaust and genotoxicity responses in humans

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Reactive oxygen species production, genotoxicity and telomere length in FE1-Muta (TM) Mouse lung epithelial cells exposed to carbon nanotubes

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Assessment of reactive oxygen species production and genotoxicity of rare earth mining dust: Implications for public health and mining management

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Inflammation, oxidative stress and genotoxicity responses to biodiesel emissions in cultured mammalian cells and animals

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Exposure to Air Pollution inside Electric and Diesel-Powered Passenger Trains

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Health effects of exposure to diesel exhaust in diesel-powered trains

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Telomere shortening and aortic plaque progression in Apolipoprotein E knockout mice after pulmonary exposure to candle light combustion particles

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Vasomotor function in rat arteries after ex vivo and intragastric exposure to food-grade titanium dioxide and vegetable carbon particles

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Neurotensin, substance P, and insulin enhance cell migration

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Different effects of anthocyanins and phenolic acids from wild blueberry (*Vaccinium angustifolium*) on monocytes adhesion to endothelial cells in a TNF- α stimulated proinflammatory environment

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Endothelial cell activation, oxidative stress and inflammation induced by a panel of metal-based nanomaterials

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