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Section of Environmental Health  
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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

### Associate Professor

Associate Professor

Section of Environmental Health

København K

13 Jul 2009 → nu

### Postdoc

Department of Public Health

København K, Denmark

13 Jul 2009 → 12 Mar 2012

### Assistant Professor

Department of Public Health

København K, Denmark

13 Mar 2012 → 30 Jun 2015

## Research outputs

### **Gastrointestinal tract exposure to particles and DNA damage in animals: A review of studies before, during and after the peak of nanotoxicology**

Møller, Peter & Roursgaard, Martin, 2024, In: Mutation Research - Reviews in Mutation Research. 793, 14 p., 108491.

### **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**

Torero Gutierrez, Claudia Andrea, Loizides, C., Hafez, I., Biskos, G., Loeschner, K., Brostrøm, A., Roursgaard, Martin, Saber, A. T., Møller, P., Sørlie, J. B., Hadrup, N. & Vogel, U., 2023, In: Basic & clinical pharmacology & toxicology. 133, 3, p. 265-278 14 p.

### **Exposure to nanoplastic particles and DNA damage in mammalian cells**

Møller, Peter & Roursgaard, Martin, 2023, In: Mutation Research - Reviews in Mutation Research. 792, 15 p., 108468.

### **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., Malmberg, V. B., Tunér, M., Pagels, J., Krais, 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.

### **Pleural inflammatory response, mesothelin content and DNA damage in mice at one-year after intra-pleural carbon nanotube administration**

Wils, Regitze Sølling, Jacobsen, N. R., Vogel, U., Roursgaard, Martin, Jensen, Annie & Møller, P., 2023, In: Toxicology. 499, 10 p., 153662.

**Cell medium-dependent dynamic modulation of size and structural transformations of binary phospholipid/ $\omega$ -3 fatty acid liquid crystalline nano-self-assemblies: Implications in interpretation of cell uptake studies**

Bor, G., Salentinig, S., Şahin, E., Nur Ödevci, B., Roursgaard, Martin, Liccardo, L., Hamerlik, P., Moghimi, S. M. & Yaghmur, Anan, 2022, In: Journal of Colloid and Interface Science. 606, p. 464-479 16 p.

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

Roursgaard, Martin, Hezareh Rothmann, M., Schulte, J., Karadimou, I., Marinelli, E. & Møller, P., 2022, In: Frontiers in Public Health. 10, 15 p., 906430.

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

Møller, Peter & Roursgaard, Martin, 2021, In: Chemical Research in Toxicology. 34, p. 2235-2250 16 p.

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

Møller, Peter, Wils, Regitze Sølling, di Ianni, Emilio, Torero Gutierrez, Claudia Andrea, Roursgaard, Martin & Jacobsen, N. R., 2021, In: Mutation Research - Reviews. 788, 108393.

**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**

Scholten, R. H., Essig, Y. J., Roursgaard, Martin, Jensen, Annie, Krais, A. M., Gren, L., Dierschke, K., Gudmundsson, A., Wierzbicka, A. & Møller, Peter, 2021, In: Archives of Toxicology. 95, p. 3407-3416 10 p.

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

Wils, Regitze Sølling, Jacobsen, N. R., di Ianni, Emilio, Roursgaard, Martin & Møller, Peter, 2021, In: Nanotoxicology. 15, 5, p. 661-672 12 p.

**Simultaneous Cross-Linking and Cross-Polymerization of Enzyme Responsive Polyethylene Glycol Nanogels in Confined Aqueous Droplets for Reduction of Low-Density Lipoprotein Oxidation**

Basak, S., Khare, Harshvardhan, Roursgaard, Martin, Kempen, P. J., Lee, J. H., Bazban-Shotorbani, S., Kraemer, M., Chernyy, S., Andresen, T. L., Almdal, K. & Kamaly, N., 2021, In: Biomacromolecules. 22, 2, p. 386-398 13 p.

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

Tian, S., Li, K., Møller, P., Ying, S. C., Wang, L., Li, Z., Roursgaard, Martin & Liang, T., 2020, In: Science of the Total Environment. 740, 139759.

**Effect of combustion-derived particles on genotoxicity and telomere length: A study on human cells and exposed populations**

Ma, Y., Bellini, N., Scholten, R. H., Andersen, M. H. G., Vogel, U., Saber, A. T., Loft, Steffen, Møller, Peter & Roursgaard, Martin, 2020, In: Toxicology Letters. 322, p. 20-31 12 p.

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

Møller, Peter, Scholten, R. H., Roursgaard, Martin & Krais, A. M., 2020, In: Critical Reviews in Toxicology. 50, 5, p. 383-401 19 p.

**Airway exposure to TiO<sub>2</sub> nanoparticles and quartz and effects on sperm counts and testosterone levels in male mice**

Lauvås, A. J., Skovmand, A., Poulsen, M. S., Kyjovska, Z. O., Roursgaard, Martin, Goericke-Pesch, S., Vogel, U. & Hougaard, Karin Sørig, 2019, In: Reproductive Toxicology. 90, p. 134-140 7 p.

**Breast Milk-Derived Extracellular Vesicles Enriched in Exosomes From Mothers With Type 1 Diabetes Contain Aberrant Levels of microRNAs**

Mirza, A. H., Kaur, S., Nielsen, L. B., Størling, J., Yarani, R., Roursgaard, Martin, Mathiesen, Elisabeth, Damm, Peter, Svare, J., Mortensen, H. B. & Pociot, Flemming, 2019, In: *Frontiers in Immunology*. 10, p. 2543

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

Andersen, M. H. G., Johannesson, S., Fonseca, A. S., Clausen, P. A., Saber, A. T., Roursgaard, Martin, Loeschner, K., Koponen, I. K., Loft, Steffen, Vogel, U. & Møller, Peter, 2019, In: *Environmental Science & Technology*. 53, 8, p. 4579-4587 9 p.

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

Andersen, M. H. G., Frederiksen, M., Saber, A. T., Wils, Regitze Sølling, Fonseca, A. S., Koponen, I. K., Johannesson, S., Roursgaard, Martin, Loft, Steffen, Møller, Peter & Vogel, U., 2019, In: *Particle and Fibre Toxicology*. 16, 14 p., 21.

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

Gouveia, A. C. D., Skovman, A., Jensen, Annie, Koponen, I. K., Loft, Steffen, Roursgaard, Martin & Møller, Peter, 17 Sep 2018, In: *Mutagenesis*. 33, 3, p. 253-261 9 p.

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

Jensen, Ditte Marie, Christophersen, D. V., Sheykhzade, Majid, Skovsted, Gry Freja, Lykkesfeldt, Jens, Münter, R., Roursgaard, Martin, Loft, Steffen & Møller, Peter, 26 Feb 2018, In: *Particle and Fibre Toxicology*. 15, p. 1-18 12.

**Searching for assay controls for the Fpg- and hOGG1-modified comet assay**

Møller, Peter, Jantzen, K., Løhr, M., Andersen, M. H., Jensen, Ditte Marie, Roursgaard, Martin, Danielsen, P. H., Jensen, Annie & Loft, Steffen, 24 Feb 2018, In: *Mutagenesis*. 33, 1, p. 9-19 11 p.

**Inhalation of House Dust and Ozone Alters Systemic Levels of Endothelial Progenitor Cells, Oxidative Stress, and Inflammation in Elderly Subjects**

Jantzen, K., Jensen, Annie, Kermanizadeh, A., Elholm, G., Sigsgaard, T., Møller, Peter, Roursgaard, Martin & Loft, Steffen, 2018, In: *Toxicological Sciences*. 163, 2, p. 353-363 11 p.

**Neurotensin, substance P, and insulin enhance cell migration**

Mouritzen, M. V., Abourayale, S., Ejaz, R., Ardon, C. B., Carvalho, E., Dalgaard, L. T., Roursgaard, Martin & Jenssen, H., 2018, In: *Journal of Peptide Science*. 24, 7, 10 p., e3093.

**Telomere dynamics and cellular senescence: an emerging field in environmental and occupational toxicology**

Møller, Peter, Wils, Regitze Sølling, Jensen, Ditte Marie, Andersen, M. H. G. & Roursgaard, Martin, 2018, In: *Critical Reviews in Toxicology*. 48, 9, p. 761-788 28 p.

**Hepatic toxicity assessment of cationic liposome exposure in healthy and chronic alcohol fed mice**

Kermanizadeh, A., Jacobsen, N. R., Roursgaard, Martin, Loft, Steffen & Møller, Peter, Nov 2017, In: *Heliyon*. 3, 11, p. 1-21 21 p., e00458.

**Lung inflammation and genotoxicity in mice lungs after pulmonary exposure to candle light combustion particles**

Skovmand, A., Damiao Gouveia, A. C., Koponen, I. K., Møller, Peter, Loft, Steffen & Roursgaard, Martin, 5 Jul 2017, In: *Toxicology Letters*. 276, p. 31-38 8 p.

**Hepatic Hazard Assessment of Silver Nanoparticle Exposure in Healthy and Chronically Alcohol Fed Mice**

Kermanizadeh, A., Jacobsen, N. R., Roursgaard, Martin, Loft, Steffen & Møller, Peter, Jul 2017, In: *Toxicological Sciences*. 158, 1, p. 176-187 12 p.

**Repair activity of oxidatively damaged DNA and telomere length in human lung epithelial cells after exposure to multi-walled carbon nanotubes**

Borghini, A., Roursgaard, Martin, Andreassi, M. G., Kermanizadeh, A. & Møller, Peter, Jan 2017, In: *Mutagenesis*. 32, 1, p. 173-180 8 p.

**Assessment of evidence for nanosized titanium dioxide-generated DNA strand breaks and oxidatively damaged DNA in cells and animal models**

Møller, Peter, Jensen, Ditte Marie, Wils, Regitze Sølling, Guerra Andersen, M. H., Danielsen, P. H. & Roursgaard, Martin, 2017, In: *Nanotoxicology*. 11, 9-10, p. 1237-1256 20 p.

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

Del Bo', C., Roursgaard, Martin, Porrini, M., Loft, Steffen, Møller, Peter & Riso, P., Nov 2016, In: *Molecular Nutrition & Food Research*. 60, 11, p. 2355-2366 12 p.

***In vitro* toxicity of cationic micelles and liposomes in cultured human hepatocyte (HepG2) and lung epithelial (A549) cell lines**

Roursgaard, Martin, Knudsen, K. B., Northeved, H., Persson, M., Christensen, T., Kumar, P. E. K., Permin, A., Andresen, T. L., Gjetting, T., Lykkesfeldt, Jens, Vesterdal, L. K., Loft, Steffen & Møller, Peter, Oct 2016, In: *Toxicology in Vitro*. 36, p. 164-171 8 p.

**Cardiovascular health effects of oral and pulmonary exposure to multi-walled carbon nanotubes in ApoE-deficient mice**

Christophersen, D. V., Raun Jacobsen, N., Guerra Andersen, M. H., Connell, S. P., Barfod, K. K., Thomsen, Morten Bækgaard, Miller, M. R., Duffin, R., Lykkesfeldt, Jens, Vogel, U. B., Wallin, E. H. R., Loft, Steffen, Roursgaard, Martin & Møller, Peter, 14 Sep 2016, In: *Toxicology*. 371, p. 29-40 12 p.

**Atherosclerosis and vasomotor dysfunction in arteries of animals after exposure to combustion-derived particulate matter or nanomaterials**

Møller, Peter, Christophersen, D. V., Raun Jacobsen, N., Skovmand, A., Gouveia, A. C. D., Guerra Andersen, M. H., Kermanizadeh, A., Jensen, Ditte Marie, Danielsen, P. H., Roursgaard, Martin, Jantzen, K. & Loft, Steffen, May 2016, In: *Critical Reviews in Toxicology*. 46, 5, p. 437-476 40 p.

**Anthocyanins and phenolic acids from a wild blueberry (*Vaccinium angustifolium*) powder counteract lipid accumulation in THP-1-derived macrophages**

Del Bo', C., Cao, Y., Roursgaard, Martin, Riso, P., Porrini, M., Loft, Steffen & Møller, Peter, Feb 2016, In: *European Journal of Nutrition*. 55, 1, p. 171-182 12 p.

**Monocyte adhesion induced by multi-walled carbon nanotubes and palmitic acid in endothelial cells and alveolar-endothelial co-cultures**

Cao, Y., Roursgaard, Martin, Jacobsen, N. R., Møller, Peter & Loft, Steffen, 2016, In: *Nanotoxicology*. 10, 2, p. 235-244

**Automobile diesel exhaust particles induce lipid droplet formation in macrophages *in vitro***

Cao, Y., Jantzen, K., Gouveia, A. C. D., Skovmand, A., Roursgaard, Martin, Loft, Steffen & Møller, Peter, 9 Jun 2015, In: *Environmental Toxicology and Pharmacology*. 40, 1, p. 164-171 8 p.

**Measurement of oxidative damage to DNA in nanomaterial exposed cells and animals**

Møller, Peter, Jensen, Ditte Marie, Christophersen, D. V., Kermanizadeh, A., Jacobsen, N. R., Hemmingsen, J. G., Danielsen, P. H., Karottki, D. G., Roursgaard, Martin, Cao, Y., Jantzen, K., Klingberg, H., Hersoug, L. & Loft, Steffen, Mar 2015, In: *Environmental and Molecular Mutagenesis*. 56, 2, p. 97-110 14 p.

**Polyethylenimine architecture-dependent metabolic imprints and perturbation of cellular redox homeostasis**

Hall, A., Parhamifar, L., Lange, M. K., Meyle, K. D., Sanderhoff, M., Andersen, H., Roursgaard, Martin, Larsen, A. K., Jensen, P. B., Christensen, C., Bartek, J. & Moghimi, S. M., Mar 2015, In: *B B A - Bioenergetics*. 1847, 3, p. 328-42 15 p.

***In vivo* toxicity of cationic micelles and liposomes**

Knudsen, K. B., Northeved, H., Kumar Ek, P., Permin, A., Gjetting, T., Andresen, T. L., Larsen, S., Wegener, K. M., Lykkesfeldt, Jens, Jantzen, K., Loft, Steffen, Møller, Peter & Roursgaard, Martin, 25 Feb 2015, In: *Nanomedicine: Nanotechnology, Biology and Medicine*. 11, 2, p. 467-477 11 p.

### **Synergistic Effects of Zinc Oxide Nanoparticles and Fatty Acids on Toxicity to Caco-2 Cells**

Cao, Y., Roursgaard, Martin, Keramanizadeh, A., Loft, Steffen & Møller, Peter, Jan 2015, In: International Journal of Toxicology. 34, 1, p. 67-76 10 p.

### **Applications of the comet assay in particle toxicology: air pollution and engineered nanomaterials exposure**

Møller, Peter, Hemmingsen, J. G., Jensen, Ditte Marie, Danielsen, P. H., Karottki, D. G., Jantzen, K., Roursgaard, Martin, Cao, Y., Keramanizadeh, A., Klingberg, H., Christophersen, D. V., Hersoug, L. & Loft, Steffen, 2015, In: Mutagenesis. 30, 1, p. 67-83 17 p.

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

Danielsen, P. H., Cao, Y., Roursgaard, Martin, Møller, Peter & Loft, Steffen, 2015, In: Nanotoxicology. 9, 7, p. 813-824 12 p.

### **Role of oxidative stress in carbon nanotube-generated health effects**

Møller, P., Christophersen, D. V., Jensen, Ditte Marie, Keramanizadeh, A., Roursgaard, Martin, Jacobsen, N. R., Hemmingsen, J. G., Danielsen, P. H., Cao, Y., Jantzen, K., Klingberg, H., Hersoug, L. & Loft, Steffen, Nov 2014, In: Archives of Toxicology. 88, 11, p. 1939-64 26 p.

### **Variability in Particle Size Determination by Nanoparticle Tracking Analysis**

Roursgaard, Martin, Jensen, K. A., Danielsen, P. H., Mikkelsen, L. Æ., Folkmann, J. K., Forchhammer, L. A., Jantzen, K., Klingberg, H., Cao, Y., Loft, Steffen & Møller, Peter, 1 Sep 2014, In: Advanced Science, Engineering and Medicine. 6, 9, p. 931-941 11 p.

### **Vascular effects of multiwalled carbon nanotubes in dyslipidemic ApoE<sup>-/-</sup> mice and cultured endothelial cells**

Cao, Y., Jacobsen, N. R., Danielsen, P. H., Lenz, A. G., Stoeger, T., Loft, Steffen, Wallin, E. H. R., Roursgaard, Martin, Mikkelsen, L. Æ. & Møller, Peter, Mar 2014, In: Toxicological Sciences. 138, 1, p. 104-16 13 p.

### **Accumulation of lipids and oxidatively damaged DNA in hepatocytes exposed to particles**

Vesterdal, L. K., Danielsen, P. H., Folkmann, J. K., Jespersen, L. F., Aguilar-Pelaez, K., Roursgaard, Martin, Loft, Steffen & Møller, Peter, 15 Jan 2014, In: Toxicology and Applied Pharmacology. 274, 2, p. 350-60 11 p.

### **Carbon black nanoparticles promote endothelial activation and lipid accumulation in macrophages independently of intracellular ROS production**

Cao, Y., Roursgaard, Martin, Danielsen, P. H., Møller, Peter & Loft, Steffen, 2014, In: PLOS ONE. 9, 9, p. 1-13 13 p., e106711.

### **Carbon nanotubes and cardiovascular disease**

Møller, Peter, Cao, Y., Vesterdal, L. K., Danielsen, P. H., Roursgaard, Martin, Klingberg, H., Christophersen, D. V. & Loft, Steffen, 2014, *Nanotoxicology: Progress toward nanomedicine*. Monteiro-Riviere, N. A. & Lang Tran, C. (eds.). 2 ed. USA: CRC Press, p. 331-344 15 p.

### **Hepatic toxicology following single and multiple exposure of engineered nanomaterials utilising a novel primary human 3D liver microtissue model**

Keramanizadeh, A., Løhr, M., Roursgaard, Martin, Messner, S., Gunness, P., Kelm, J. M., Møller, Peter, Stone, V. & Loft, Steffen, 2014, In: Particle and Fibre Toxicology. 11, 1, p. 1-15 15 p., 56.

### **Oxidative stress and inflammation generated DNA damage by exposure to air pollution particles**

Møller, Peter, Danielsen, P. H., Karottki, D. G., Jantzen, K., Roursgaard, Martin, Klingberg, H., Jensen, Ditte Marie, Christophersen, D. V., Hemmingsen, J. G., Cao, Y. & Loft, Steffen, 2014, In: Mutation Research - Reviews. 762, p. 133-166 34 p.

### **Oxidatively damaged DNA in animals exposed to particles**

Møller, Peter, Danielsen, P. H., Jantzen, K., Roursgaard, Martin & Loft, Steffen, Feb 2013, In: Critical Reviews in Toxicology. 43, 2, p. 96-118 23 p.

**Pulmonary exposure to particles from diesel exhaust, urban dust or single-walled carbon nanotubes and oxidatively damaged DNA and vascular function in apoE(-/-)mice**

Vesterdal, L. K., Jantzen, K., Sheykhzade, Majid, Roursgaard, Martin, Folkmann, J. K., Loft, Steffen & Møller, Peter, 14 Nov 2012, In: *Nanotoxicology*. 8, 1, p. 61-71

**Oxidative damage to DNA by diesel exhaust particle exposure in co-cultures of human lung epithelial cells and macrophages**

Jantzen, K., Roursgaard, Martin, Desler, Claus, Loft, Steffen, Rasmussen, Lene Juel & Møller, Peter, Nov 2012, In: *Mutagenesis*. 27, 6, p. 693-701 9 p.

**Carbon black nanoparticles and vascular dysfunction in cultured endothelial cells and artery segments**

Vesterdal, L. K., Mikkelsen, L., Folkmann, J. K., Sheykhzade, Majid, Cao, Y., Roursgaard, Martin, Loft, Steffen & Møller, Peter, 2012, In: *Toxicology Letters*. 214, 1, p. 19-26 8 p.

**Expression of adhesion molecules, monocyte interactions and oxidative stress in human endothelial cells exposed to wood smoke and diesel exhaust particulate matter**

Forchhammer, L., Loft, Steffen, Roursgaard, Martin, Cao, Y., Riddervold, I. S., Sigsgaard, T. & Møller, Peter, 2012, In: *Toxicology Letters*. 209, 2, p. 121-8 8 p.

**Transport of SiO<sub>2</sub> Nanoparticles through Human Skin**

Staronová, K., Nielsen, J. B., Roursgaard, Martin & Knudsen, Lisbeth E., 2012, In: *Basic & Clinical Pharmacology & Toxicology Online*. 111, 2, p. 142-4 3 p.

**Urinary excretion of 8-oxo-7,8-dihydroguanine as biomarker of oxidative damage to DNA**

Loft, Steffen, Danielsen, P. H., Løhr, M., Jantzen, K., Hemmingsen, J. G., Roursgaard, Martin, Karotki, D. G. & Møller, Peter, 2012, In: *Archives of Biochemistry and Biophysics*. 518, 2, p. 142-50 9 p.

**Oxidative stress, genotoxicity, and vascular cell adhesion molecule expression in cells exposed to particulate matter from combustion of conventional diesel and methyl ester biodiesel blends**

Hemmingsen, J. G., Møller, Peter, Nøjgaard, J. K., Roursgaard, Martin & Loft, Steffen, 1 Oct 2011, In: *Environmental Science & Technology (Washington)*. 45, 19, p. 8545-51 7 p.

**Hazard identification of particulate matter on vasomotor dysfunction and progression of atherosclerosis**

Møller, Peter, Mikkelsen, L., Vesterdal, L. K., Folkmann, J. K., Forchhammer, L., Roursgaard, Martin, Danielsen, P. H. & Loft, Steffen, 1 Apr 2011, In: *Critical Reviews in Toxicology*. 41, 4, p. 339-68 30 p.

**Acute and subchronic airway inflammation after intratracheal instillation of quartz and titanium dioxide agglomerates in mice**

Roursgaard, Martin, Jensen, K. A., Poulsen, Steen Seier, Jensen, N. E. V., Poulsen, Lars K., Hammer, M., Nielsen, G. D. & Larsen, S. T., 1 Jan 2011, In: *Scientific World Journal*. 11, p. 801-25 25 p.

**Effect of vitamin C and iron chelation on diesel exhaust particle and carbon black induced oxidative damage and cell adhesion molecule expression in human endothelial cells**

Frikke-Schmidt, H. R., Roursgaard, Martin, Lykkesfeldt, Jens, Loft, Steffen, Nøjgaard, J. K. & Møller, Peter, 2011, In: *Toxicology Letters*. 203, 3, p. 181-189 9 p.

**Genotoxic potential of the perfluorinated chemicals PFOA, PFOS, PFBS, PFNA and PFHxA in human HepG2 cells**

Eriksen, K. T., Raaschou-Nielsen, O., Sørensen, M., Roursgaard, Martin, Loft, Steffen & Møller, Peter, 2010, In: *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*. 700, 1-2, p. 39-43 4 p.

**Time-response relationship of nano and micro particle induced lung inflammation. Quartz as reference compound**

Roursgaard, Martin, Poulsen, Steen Seier, Poulsen, Lars K., Hammer, M., Jensen, K. A., Utsunomiya, S., Ewing, R. C., Balic Zunic, Tonci, Nielsen, G. D. & Larsen, S. T., 2010, In: *Human & Experimental Toxicology*. 29, 11, p. 915-933 19 p.

**Polyhydroxylated C60 fullerene (fullerenol) attenuates neutrophilic lung inflammation in mice**

Roursgaard, Martin, Poulsen, Steen Seier, Kepley, C. L., Hammer, M., Nielsen, G. D. & Larsen, S. T., 1 Oct 2008, In: Basic & Clinical Pharmacology & Toxicology Online. 103, 4, p. 386-8 3 p.

**Effects of alcohol consumption on the allergen-specific immune response in mice**

Linneberg, Allan René, Roursgaard, Martin, Hersoug, L. & Larsen, S. T., 2008, In: Alcoholism: Clinical and Experimental Research. 32, 3, p. 553-557 4 p.

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2003 M.Sc. Molecular Biology and Chemistry - Department of Life Science and Chemistry, Roskilde University