



Dansk Selskab for Toksikologi & Farmakologi

TOXICITY OF PARTICLES – MECHANISMS AND EFFECTS DSTF VIRTUAL FALL MEETING

Thursday 18th November 2021, 14.00-16.20 on ZOOM

Meeting-link: <https://aarhusuniversity.zoom.us/j/63407953693>

OCTOBER 4, 2021

Particulate toxicology relates to the study of the toxicity of particles, where especially the toxicity of nanosized particles has been studied in more detail (e.g. engineered nanomaterials and anthropogenic particles such as diesel exhaust particles). Nanosized particles have a large surface area to volume ratio, hence they have unique properties compared with their larger counterparts, and this affects their toxicity. Relative to potential hazards associated with particle exposure, inhalation exposure appears to be associated with the most concern. Pulmonary effects include particle induced lung inflammation and cancer, but effects can also appear in other organ systems.

The 18th November 2021 meeting will sum up potential mechanisms in toxicity of particles, and inform about effects observed in other organ systems, as observed both in in vitro, in vivo experimental animals and in humans.

14.00-14.05: **Welcome**

Karin Sørig Hougaard, Senior researcher, affil. Professor, National Research Centre for the Working Environment

14.05-14.25: **Mechanisms in toxicity of particles**

Peter Møller, Professor, Dept. Public Health, University of Copenhagen

14.25-14.45: **Mechanisms of action for (nano) particle carcinogenicity – diesel and carbon nanotubes as examples**

Ulla Vogel, Professor, National Research Centre for the Working Environment

14.45-15.05: **Mechanism underlying acute lung effects of particles**

Jorid Sørli, Senior researcher, National Research Centre for the Working Environment

15.05-15.10: *Break*

15.10-15.30: **Developmental toxicity of (nano) particles – what could the mechanisms be?**

Karin Sørig Hougaard, Senior researcher, affil. Professor, National Research Centre for the Working Environment

15.30-15.50: **Acute health effects after exposure to particles from candle burning and cooking – Results from a human exposure study**

Karin Rosenkilde Laursen, PhD-student, Dept. Public Health, Aarhus University

15.50-16.10: **Health effects of particular air pollution in population studies**

Steffen Loft, Professor, Dept. Public Health, University of Copenhagen

16.10-16.20: **Closure**

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