

Kai Savolainen, Research Professor, Director at Finnish Institute of Occupational Health
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Selected publications:

1. Catalán J, Siivola KM, Nymark P, Lindberg H, Suhonen S, Järventaus H, Koivisto AJ1,4, Moreno C, Vanhala E, Wolff H, Kling KI, Jensen KA, Savolainen K, Norppa H. 2016. In vitro and in vivo genotoxic effects of straight versus tangled multi-walled carbon nanotubes. *Nanotoxicology*. 2016 Jan 26:1-13.
2. Lindberg HK, Falck GC, Singh R, Suhonen S, Järventaus H, Vanhala E, Catalán J, Farmer PB, Savolainen KM, Norppa H. 2013. Genotoxicity of short single-wall and multi-wall carbon nanotubes in human bronchial epithelial and mesothelial cells in vitro. *Toxicology*. 8; 313(1):24-37.
3. Palomaki J, Valimaki E, Sund J, Vippola M, Clausen PA, Jensen, KA, Savolainen K, Matikainen S, Alenius H. 2011. Long, needle-like carbon nanotubes and asbestos activate the NLRP3 inflammasome through a similar mechanism. *ACS Nano* 5: 6861-6870.
4. Sund J, Alenius H, Vippola M, Savolainen K, Puustinen, A. 2011. Proteomic characterization of engineered nanomaterial-protein interactions in relation to surface reactivity. *ACS Nano* 5: 4300-4309.
5. Savolainen K, Alenius H, Norppa H, Pylkkanen L, Tuomi, T, Kasper G. 2010. Risk assessment of engineered nanomaterials and nanotechnologies-a review. *Toxicology* 269: 92-104.
6. Kahru A, Savolainen K. 2010. Potential hazard of nanoparticles: from properties to biological and environmental effects. *Toxicology* 269: 89-91.
7. Lindberg HK, Falck GCM, Suhonen S, Vippola M, Vanhala E, Catalan J, Savolainen K, Norppa H. 2009. Genotoxicity of nanomaterials: DNA damage and micronuclei induced by carbon nanotubes and graphite nanofibres in human bronchial epithelial cells in vitro. *Toxicology Letters* 186: 166-173

Other papers: in total 400 scientific paper in international research journals, 170 in peer-reviewed journals

Work experience: 1998 - now, professor and head of Department of Industrial Hygiene and Toxicology, Finnish Institute of Occupational Health; 1982- now, Adjunct Professor of Toxicology at the University of Helsinki and University of Kuopio; 1996-1998, Professor of Toxicology and Chairman of Department of Pharmacology and Toxicology, University of Kuopio; 1982-1995, several positions at the National Public Health Institute of Finland; 1978-1982, Instructor at Departments of Forensic Medicine and Pharmacology and Toxicology, University of Helsinki; 1977-1978 Scientist, Department of Industrial Hygiene and Toxicology, Finnish Institute of Occupational Health.

Education: 1987 PhD in Toxicology (University of Kansas, USA); 1981 PhD in Medicine (University of Helsinki, Finland); 1976. MD (University of Helsinki, Finland)

Training: NIH Fogarty postdoctoral fellow at the Department of Pharmacology, Toxicology and Therapeutics, University of Kansas Medical Centre, USA.

Research and other project: leads several large international, mainly European Union, funded research consortia with a focus on the safety of engineered nanoparticles. Currently he is responsible for the "New Technologies and Risk" research at the Institute, and is the leader of the Research Programme on "Safe Nanotechnologies and Safety of Engineered Nanoparticles".

Teaching: Toxicology at University of Helsinki, University of Tampere and University of Kuopio

Mentorship: 14 PhD, 10 MS

Organizational skills and competences: Editor of the IUTOX Newsletter; EUROTOX Registered toxicologist; President of the 10th International Congress of Toxicology organized in Tampere, Finland in 2004.

Membership in science organizations and bodies: Member of the Governing Board of the International Council for Laboratory Animal Science; diplomat of American Board of Toxicology; President of International Neurotoxicology Association; Member of the Council of Finnish Society of Toxicology; Secretary-General of IUTOX; Member of the Executive Committee of the International Union of IUTOX; President of IUTOX.