

ULTRAFINES REFERENCES

Abt E, Suh HH, Catalano PJ, Koutrakis P. 2000. Relative contribution of outdoor and indoor particle sources to indoor concentrations. *Environ Sci Technol* 34:3579-3587.

Avobge P, Ayi-Fanou L, Autrup H, Loft S, Fayomi B, Sanni A, et al. 2005. Ultrafine particulate matter and high-level benzene urban air pollution in relation to oxidative DNA damage. *Carcinogenesis* 26:613-620.

Brown DM, Stone V, Findlay P, MacNee W, Donaldson K. 2000. Increased inflammation and intracellular calcium caused by ultrafine carbon black is independent of transition metals or other soluble components. *Occup Environ Med* 57:685-691.

Brown DM, Wilson MR, MacNee W, Stone V, Donaldson K. 2001. Size-dependent proinflammatory effects of ultrafine polystyrene particles: a role for surface area and oxidative stress in the enhanced activity of ultrafines. *Toxicol Appl Pharmacol* 175:191-199.

Brunekreef B, Holgate ST. 2002. Air pollution and health. *Lancet* 360:1233-1242.

Calderon-Garciduenas L, Osnaya-Brizuela N, Ramirez-Martinez L, Villarreal-Calderon A. 1996. DNA strand breaks in human nasal respiratory epithelium are induced upon exposure to urban pollution. *Environ Health Perspect* 104:160-168.

Calderon-Garciduenas L, Wen-Wang L, Zhang Y J, Rodriguez-Alcaraz A, Osnaya N, Villarreal-Calderon A, et al. 1999. 8-Hydroxy-2'-deoxyguanosine, a major mutagenic oxidative DNA lesion, and DNA strand breaks in nasal respiratory epithelium of children exposed to urban pollution. *Environ Health Perspect* 107:469-474.

Collins AR, Dobson VL, Dusinska M, Kennedy G, Stetina R. 1997. The comet assay: what can it really tell us? *Mutat Res* 375:183-193.

Daigle CC, Chalupa DC, Gibb FR, Morrow PE, Oberdorster G, Utell MJ, et al. 2003. Ultrafine particle deposition in humans during rest and exercise. *Inhal Toxicol* 15:539-552.

Dennekamp M, Howarth S, Dick CAJ, Cherrie JW, Donaldson K, Seaton A. 2001. Ultrafine particles and nitrogen oxides generated by gas and electric cooking. *Occup Environ Med* 58:511-516.

Donaldson K, Stone V, Seaton A, MacNee W. 2001. Ambient particle inhalation

and the cardiovascular system: potential mechanisms. *Environ Health Perspect* 109(suppl 4): 523-527.

Donaldson K, Tran CL. 2002. Inflammation caused by particles and fibers. *Inhal Toxicol* 14:5-27.

Dybdahl M, Risom L, Moller P, Autrup H, Wallin H, Vogel U, et al. 2003. DNA adduct formation and oxidative stress in colon and liver of Big Blue[R] rats after dietary exposure to diesel particles. *Carcinogenesis* 24:1759-1766.

ESCODD (European Standards Committee on Oxidative DNA Damage). 2003. Measurement of DNA oxidation in human cells by chromatographic and enzymic methods. *Free Radic Biol Med* 34:1089-1099.

Fortoul TI, Valverde M, Lopez MC, Bizarre P, Lopez I, Sanchez I, et al. 2003. Single-cell gel electrophoresis assay of nasal epithelium and leukocytes from asthmatic and nonasthmatic subjects in Mexico City. *Arch Environ Health* 58:348-352.

Fortoul TI, Valverde M, Lopez MC, Vila-Costa MR, Vila-Casado MC, Mussali-Galante P, et al. 2004. Genotoxic differences by sex in nasal epithelium and blood leukocytes in subjects residing in a highly polluted area. *Environ Res* 94:243-248.

Franck U, Herbarth O, Wehner B, Wiedensohler A, Manjarrez M. 2003. How do the indoor size distributions of airborne submicron and ultrafine particles in the absence of significant indoor sources depend on outdoor distributions? *Indoor Air* 13:174-181.

Hoeijmakers JH. 2001. Genome maintenance mechanisms for preventing cancer. *Nature* 411:366-374.

Ibald-Mulli A, Wichmann HE, Kreyling W, Peters A. 2002. Epidemiological evidence on health effects of ultrafine particles. *J Aerosol Med* 15:189-201.

Jenkins PL, Phillips TJ, Mulberg EJ, Hui SP. 1992. Activity patterns of Californians: use and proximity to indoor pollutant sources. *Atmos Environ* 26A:2141-2148.

Kemp K, Palmgren F. 2004. The Danish Air Quality Monitoring Programme. Annual Summary for 2003. NERI Technical Report No. 497. Roskilde, Denmark: National Environmental Research Institute. Available: <http://technicalreports.dmu.dk> [accessed 29 August 2005].

Knaapen AM, Borm P J, Albrecht C, Scbins RP. 2004. Inhaled particles and lung cancer. Part A: Mechanisms. *Int J Cancer* 109:799-809.

Levy JI, Dumyahn T, Spengler JD. 2002. Particulate matter and polycyclic aromatic hydrocarbon concentrations in indoor and outdoor microenvironments in Boston, Massachusetts. *J Expo Anal Environ Epidemiol* 12:104-114.

Levy JI, Houseman EA, Ryan L, Richardson D, Spengler JD. 2000. Particle concentrations in urban microenvironments. *Environ Health Perspect* 108:1051-1057.

Li N, Hao MQ, Phalen RF, Hinds WC, Nel AE. 2003. Particulate air pollutants and asthma--a paradigm for the role of oxidative stress in PM-induced adverse health effects. *Clin Immunol* 109:250-265.

Loft S, Peulsen HE, Vistisen K, Knudsen LE. 1999. Increased urinary excretion of 8-oxo-2'-deoxyguanosine, a biomarker of oxidative DNA damage, in urban bus drivers. *Mutat Res* 441:11-19.

Long CM, Suh HH, Catalano PJ, Koutrakis P. 2001a. Using time-and size-resolved particulate data to quantify indoor penetration and deposition behavior. *Environ Sci Technol* 35: 2089-2099.

Long CM, Suh HH, Kobzik L, Catalano PJ, Ning YY, Koutrakis P. 2001b. A pilot investigation of the relative toxicity of indoor and outdoor fine particles: in vitro effects of endotoxin and other particulate properties. *Environ Health Perspect* 109:1019-1026.

Long CM, Suh HH, Koutrakis P. 2000. Characterization of indoor particle sources using continuous mass and size monitors. *J Air Waste Manag Assoc* 50:1236-1250.

Moller P, Friis B, Risom L, Plesner G, Kjaersgaard J, Vinzents P, et al. 2004a. Intra-laboratory comet assay sample scoring exercise for determination of formamidopyrimidine DNA glycosylase sites in human mononuclear blood cell DNA. *Free Radic Res* 11:1207-1214.

Moller P, Loft S. 2004. Interventions with antioxidants and nutrients in relation to oxidative DNA damage and repair. *Mutat Res* 551:79-89.

Moller P, Loft S. 2002. Oxidative DNA damage in human white blood cells in dietary antioxidant intervention studies. *Am J Clin Nutr* 76:303-310.

Moller P, Viscovich M, Lykkesfeldt J, Loft S, Jensen A, Poulsen HE. 2004b.

Vitamin C supplementation decreases oxidative DNA damage in mononuclear blood cells of smokers. *Eur J Nutr* 43:267-274.

Monn C, Beaker S. 1999. Cytotoxicity and induction of proinflammatory cytokines from human monocytes exposed to fine (P[M.sub.2.5]) and coarse particles (P[M.sub.10-2.5]) in outdoor and indoor air. *Toxicol Appl Pharmacol* 155:245-252.

Nemmar A, Heel PH, Vanquickenborne B, Dinsdale D, Thomeer M, Hoylaerts MF, et al. 2002. Passage of inhaled particles into the blood circulation in humans. *Circulation* 105:411-414.

Nemmar A, Hoylaerts MF, Hoet PH, Nemery B. 2004. Possible mechanisms of the cardiovascular effects of inhaled particles: systemic translocation and prothrombotic effects. *Toxicol Lett* 149:243-253.

Ozkaynak H, Xue J, Spengler J, Wallace L, Pellizzari E, Jenkins P. 1996. Personal exposure to airborne particles and metals: results from the Particle TEAM study in Riverside, California. *J Expo Anal Environ Epidemiol* 6:57-78.

Palmgren F, Wahlin P, Kildeso J, Afshari A, Fogh CL. 2003. Characterisation of particle emissions from the driving car fleet and the contribution to ambient and indoor particle concentrations. *Phys Chem Earth* 28:327-334.

Penttinen P, Timonen KL, Tiittanen P, Mirme A, Ruuskanen J, Pekkanen J. 2001. Ultrafine particles in urban air and respiratory health among adult asthmatics. *Eur Respir J* 17:428-435.

Peters A, Wichmann HE, Tuch T, Heinrich J, Heyder J. 1997. Respiratory effects are associated with the number of ultrafine particles. *Am J Respir Crit Care Med* 155:1376-1383.

Pope CA III, Burnett RT, Thun MJ, Calle EE, Krewski D, Ito K, et al. 2002. Lung cancer, cardiopulmonary mortality, and long-term exposure to fine particulate air pollution. *JAMA* 287: 1132-1141.

Risom L, Dybdahl M, Bornholdt J, Vogel U, Wallin H, Moller P, et al. 2003a. Oxidative DNA damage and defence gene expression in the mouse lung after short-term exposure to diesel exhaust particles by inhalation. *Carcinogenesis* 24:1847-1852.

Risom L, Moller P, Vogel U, Kristjansen PEG, Loft S. 2003b. X-ray-induced oxidative stress: DNA damage and gene expression of HO-1, ERCC1 and OGG1 in mouse lung. *Free Radic Res* 37:957-966.

Roponen M, Toivola M, Alm S, Nevalainen A, Jussila J, Hirvonen MR. 2003. Inflammatory and cytotoxic potential of the airborne particle material assessed by nasal lavage and cell exposure methods. *Inhal Toxicol* 15:23-38.

Ruuskanen J, Tuch T, Ten Brink H, Peters A, Khlystov A, Mirme A, et al. 2001. Concentrations of ultrafine, fine and P[M.sub.2.5] particles in three European cities. *Atmos Environ* 35:3729-3738.

Schins RP, Duffin R, Hohr D, Knaapen AM, Shi T, Weishaupt C, et al. 2002. Surface modification of quartz inhibits toxicity, particle uptake, and oxidative DNA damage in human lung epithelial cells. *Chem Res Toxicol* 15:1166-1173.

Schins RP, Lightbody JH, Borm P J, Shi T, Donaldson K, Stone V. 2004. Inflammatory effects of coarse and fine particulate matter in relation to chemical and biological constituents. *Toxicol Appl Pharmacol* 195:1-11.

Semmler M, Seitz J, Erbe F, Mayer P, Heyder J, Oberdorster G, et al. 2004. Long-term clearance kinetics of inhaled ultrafine insoluble iridium particles from the rat lung, including transient translocation into secondary organs. *Inhal Toxicol* 16:453-459.

Sorensen M, Autrup H, Hertel D, Wallin H, Knudsen LE, Loft S. 2003b. Personal exposure to P[M.sub.2.5] in an urban environment and biomarkers of genotoxicity. *Cancer Epidemiol Biomarkers Prev* 12:191-196.

Sorensen M, Autrup H, Moller P, Hertel O, Jensen SS, Vinzents P, et al. 2003a. Linking exposure to environmental pollutants with biological effects. *Mutat Res* 544:255-271.

Sorensen M, Dragsted LD, Hertel D, Knudsen LE, Loft S. 2003c. Personal P[M.sub.2.5] exposure and markers of oxidative stress in blood. *Environ Health Perspect* 111:161-106.

Sorensen M, Skov H, Autrup H, Hertel D, Loft S. 2003d. Urban benzene exposure and oxidative DNA damage. *Sci Total Environ* 309:69-80.

von Klot S, Wolke G, Tuch T, Heinrich J, Dockery DW, Schwartz J, et al. 2002. Increased asthma medication use in association with ambient fine and ultrafine particles. *Eur Respir J* 20:691-702.

Wichmann HE, Spix C, Tuch T, Wolke G, Peters A, Heinrich J, et al. 2000. Daily mortality and fine and ultrafine particles in Erfurt, Germany. Part I: Role of particle number and particle mass. *Res Rep Health Eff Inst* 98:5-86.

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