

- Alessandrini, F., Schulz, H., Takenaka, S., Lentner, B., Karg, E., Behrendt, H. & Jakob, T. (2006). Effects of ultrafine carbon particle inhalation on allergic inflammation of the lung. *Journal of Allergy and Clinical Immunology*, 117, 824-830.
- Bouthillier, L., Vincent, R., Goegan, P., Adamson, I.Y., Bjarnason, S., Stewart, M., Guénette, J., Potvin, M. & Kumarathasan, P. (1998). Acute effects of inhaled urban particles and ozone: lung morphology, macrophage activity, and plasma endothelin-1. *American Journal of Pathology*, 153, 1873-1884.
- Campbell, K.I., George, E.L. & Washington, I.S. (1981). Enhanced susceptibility to infection in mice after exposure to diluted exhaust from light duty diesel engines. *Environment International*, 5, 377-382.
- Campen, M.J., Nolan, J.P., Schladweiler, M.C., Kodavanti, U.P., Evansky, P.A., Costa, D.L. & Watkinson, W.P. (2001). Cardiovascular and thermoregulatory effects of inhaled PM-associated transition metals: a potential interaction between nickel and vanadium sulfate. *Toxicological Sciences*, 64, 243-252.
- Clarke, R.W., Catalano, P., Coull, B., Koutrakis, P., Krishna Murthy, G., Rice, T. & Godleski, J.J. (2000a). Age-related responses in rats to concentrated urban air particles (CAPs). *Inhalation Toxicology*, 12, 73-84.
- Clarke, R.W., Catalano, P.J., Koutrakis, P., Murthy, G.G., Sioutas, C., Paulauskis, J., Coull, B., Ferguson, S. & Godleski, J.J. (1999). Urban air particulate inhalation alters pulmonary function and induces pulmonary inflammation in a rodent model of chronic bronchitis. *Inhalation Toxicology*, 11, 637-656.
- Clarke, R.W., Coull, B., Reinisch, U., Catalano, P., Killingsworth, C.R., Koutrakis, P., Kavouras, I., Murthy, G.G., Lawrence, J., Lovett, E., Wolfson, J.M., Verrier, R.L. & Godleski, J.J. (2000b). Inhaled concentrated ambient particles are associated with hematologic and bronchoalveolar lavage changes in canines. *Environmental Health Perspectives*, 108, 1179-1187.
- Diaz-Sanchez, D., Dotson, A.R., Takenaka, H. & Saxon, A. (1994). Diesel exhaust particles induce local IgE production in vivo and alter the pattern of IgE messenger RNA isoforms. *Journal of Clinical Investigation*, 94, 1417-1425.
- Diaz-Sanchez, D., Jyrälä, M., Ng, D., Nel, A. & Saxon, A. (2000a). In vivo nasal challenge with diesel exhaust particles enhances expression of the CC chemokines rantes, MIP-1alpha, and MCP-3 in humans. *Clinical Immunology*, 97, 140-145.

- Diaz-Sanchez, D., Penichet-Garcia, M. & Saxon, A. (2000b). Diesel exhaust particles directly induce activated mast cells to degranulate and increase histamine levels and symptom severity. *Journal of Allergy and Clinical Immunology*, 106, 1140-1146.
- Diaz-Sanchez, D., Tsien, A., Casillas, A., Dotson, A.R. & Saxon, A. (1996). Enhanced nasal cytokine production in human beings after in vivo challenge with diesel exhaust particles. *Journal of Allergy and Clinical Immunology*, 98, 114-123.
- Diaz-Sanchez, D., Tsien, A., Fleming, J. & Saxon, A. (1997). Combined diesel exhaust particulate and ragweed allergen challenge markedly enhances human in vivo nasal ragweed-specific IgE and skews cytokine production to a T helper cell 2-type pattern. *Journal of Immunology*, 158, 2406-2413.
- Elder, A.C.P., Gelein, R., Finkelstein, J.N., Cox, C. & Oberdorster, G. (2000a). Endotoxin priming affects the lung response to ultrafine particles and ozone in young and old rats. *Inhalation Toxicology*, 12, 85-98.
- Elder, A.C.P., Gelein, R., Finkelstein, J.N., Cox, C. & Oberdorster, G. (2000b). Pulmonary inflammatory response to inhaled ultrafine particles is modified by age, ozone exposure, and bacterial toxin. *Inhalation Toxicology*, 12, 227-246.
- Fujieda, S., Diaz-Sanchez, D. & Saxon, A. (1998). Combined nasal challenge with diesel exhaust particles and allergen induces In vivo IgE isotype switching. *American Journal of Respiratory Cell and Molecular Biology*, 19, 507-512.
- Ghio, A.J. & Devlin, R.B. (2001). Inflammatory lung injury after bronchial instillation of air pollution particles. *American Journal of Respiratory and Critical Care Medicine*, 164, 704-708.
- Ghio, A.J., Kim, C. & Devlin, R.B. (2000). Concentrated ambient air particles induce mild pulmonary inflammation in healthy human volunteers. *American Journal of Respiratory and Critical Care Medicine*, 162, 981-988.
- Gilmour, M.I., O'Connor, S., Dick, C.A., Miller, C.A. & Linak, W.P. (2004). Differential pulmonary inflammation and in vitro cytotoxicity of size-fractionated fly ash particles from pulverized coal combustion. *Journal of the Air and Waste Management Association*, 54, 286-295.
- Goldsmith, C.A., Ning, Y., Qin, G., Imrich, A., Lawrence, J., Murthy, G.G., Catalano, P.J. & Kobzik, L. (2002). Combined air pollution particle and ozone exposure increases airway responsiveness in mice. *Inhalation Toxicology*, 14, 325-347.
- Gordon, T., Nadziejko, C., Schlesinger, R. & Chen, L.C. (1998). Pulmonary and

- cardiovascular effects of acute exposure to concentrated ambient particulate matter in rats. *Toxicology Letters*, 96-97, 285-288.
- Gurgueira, S.A., Lawrence, J., Coull, B., Murthy, G.G. & Gonzalez-Flecha, B. (2002). Rapid increases in the steady-state concentration of reactive oxygen species in the lungs and heart after particulate air pollution inhalation. *Environmental Health Perspectives*, 110, 749-755.
- Hamada, K., Goldsmith, C.A. & Kobzik, L. (1999). Increased airway hyperresponsiveness and inflammation in a juvenile mouse model of asthma exposed to air-pollutant aerosol. *J Toxicol Environ Health A*, 58, 129-143.
- Harder, S.D., Soukup, J.M., Ghio, A.J., Devlin, R.B. & Becker, S. (2001). Inhalation of PM_{2.5} does not modulate host defense or immune parameters in blood or lung of normal human subjects. *Environmental Health Perspectives*, 109 Suppl 4, 599-604.
- Harkema, J.R., Keeler, G., Wagner, J., Morishita, M., Timm, B., Hotchkiss, J., Marsik, F., Dvonch, T., Kaminski, N. & Barr, E. (2004). Effects of concentrated ambient particles on normal and hypersecretory airways in rats. *Research Report / Health Effects Institute*, 1-68; discussion 69-79.
- Hashimoto, K., Ishii, Y., Uchida, Y., Kimura, T., Masuyama, K., Morishima, Y., Hirano, K., Nomura, A., Sakamoto, T., Takano, H., Sagai, M. & Sekizawa, K. (2001). Exposure to diesel exhaust exacerbates allergen-induced airway responses in guinea pigs. *American Journal of Respiratory and Critical Care Medicine*, 164, 1957-1963.
- Hauser, R., Rice, T.M., Krishna Murthy, G.G., Wand, M.P., Lewis, D., Bledsoe, T. & Paulauskis, J. (2003). The upper airway response to pollen is enhanced by exposure to combustion particulates: a pilot human experimental challenge study. *Environmental Health Perspectives*, 111, 472-477.
- Hiramatsu, K., Saito, Y., Sakakibara, K., Azuma, A., Takizawa, H. & Sugawara, I. (2005). The effects of inhalation of diesel exhaust on murine mycobacterial infection. *Experimental Lung Research*, 31, 405-415.
- Holgate, S.T., Devlin, R.B., Wilson, S.J. & Frew, A.J. (2003a). Health effects of acute exposure to air pollution. Part II: Healthy subjects exposed to concentrated ambient particles. *Research Report / Health Effects Institute*, 31-50; discussion 51-67.
- Holgate, S.T., Sandstrom, T., Frew, A.J., Stenfors, N., Nordenhäll, C., Salvi, S.,

- Blomberg, A., Helleday, R. & Soderberg, M. (2003b). Health effects of acute exposure to air pollution. Part I: Healthy and asthmatic subjects exposed to diesel exhaust. Research Report / Health Effects Institute, 1-30; discussion 51-67.
- Huang, Y.C., Ghio, A.J., Stonehuerner, J., McGee, J., Carter, J.D., Grambow, S.C. & Devlin, R.B. (2003). The role of soluble components in ambient fine particles-induced changes in human lungs and blood. *Inhalation Toxicology*, 15, 327-342.
- Ichinose, T., Takano, H., Miyabara, Y. & Sagai, M. (1998). Long-term exposure to diesel exhaust enhances antigen-induced eosinophilic inflammation and epithelial damage in the murine airway. *Toxicological Sciences*, 44, 70-79.
- Ichinose, T., Takano, H., Miyabara, Y., Yanagisawa, R. & Sagai, M. (1997). Murine strain differences in allergic airway inflammation and immunoglobulin production by a combination of antigen and diesel exhaust particles. *Toxicology*, 122, 183-192.
- Ichinose, T., Takano, H., Sadakane, K., Yanagisawa, R., Yoshikawa, T., Sagai, M. & Shibamoto, T. (2004). Mouse strain differences in eosinophilic airway inflammation caused by intratracheal instillation of mite allergen and diesel exhaust particles. *Journal of Applied Toxicology*, 24, 69-76.
- Kleinman, M. & Phalen, R. (2006). Toxicological interactions in the respiratory system after inhalation of ozone and sulfuric acid aerosol mixtures. *Inhalation Toxicology*, 18, 295-303.
- Kleinman, M.T., Hyde, D.M., Bufalino, C., Basbaum, C., Bhalla, D.K. & Mautz, W.J. (2003). Toxicity of chemical components of fine particles inhaled by aged rats: effects of concentration. *Journal of the Air and Waste Management Association*, 53, 1080-1087.
- Kobayashi, T. & Ito, T. (1995). Diesel exhaust particulates induce nasal mucosal hyperresponsiveness to inhaled histamine aerosol. *Fundamental and Applied Toxicology*, 27, 195-202.
- Kobzik, L., Goldsmith, C.A., Ning, Y.Y., Qin, G., Morgan, B., Imrich, A., Lawrence, J., Murthy, G.G. & Catalano, P.J. (2001). Effects of combined ozone and air pollution particle exposure in mice. Research Report / Health Effects Institute, 5-29; discussion 31-28.
- Kodavanti, U.P., Hauser, R., Christiani, D.C., Meng, Z.H., McGee, J., Ledbetter, A.,

- Richards, J. & Costa, D.L. (1998). Pulmonary responses to oil fly ash particles in the rat differ by virtue of their specific soluble metals. *Toxicological Sciences*, 43, 204-212.
- Kodavanti, U.P., Jackson, M.C., Ledbetter, A.D., Richards, J.R., Gardner, S.Y., Watkinson, W.P., Campen, M.J. & Costa, D.L. (1999). Lung injury from intratracheal and inhalation exposures to residual oil fly ash in a rat model of monocrotaline-induced pulmonary hypertension. *J Toxicol Environ Health A*, 57, 543-563.
- Kodavanti, U.P., Jaskot, R.H., Costa, D.L. & Dreher, K.L. (1997). Pulmonary proinflammatory gene induction following acute exposure to residual oil fly ash: roles of particle-associated metals. *Inhalation Toxicology*, 9, 679-701.
- Kodavanti, U.P., Mebane, R., Ledbetter, A., Krantz, T., McGee, J., Jackson, M.C., Walsh, L., Hilliard, H., Chen, B.Y., Richards, J. & Costa, D.L. (2000a). Variable pulmonary responses from exposure to concentrated ambient air particles in a rat model of bronchitis. *Toxicological Sciences*, 54, 441-451.
- Kodavanti, U.P., Schladweiler, M.C., Ledbetter, A.D., Hauser, R., Christiani, D.C., McGee, J., Richards, J.R. & Costa, D.L. (2002). Temporal association between pulmonary and systemic effects of particulate matter in healthy and cardiovascular compromised rats. *J Toxicol Environ Health A*, 65, 1545-1569.
- Kodavanti, U.P., Schladweiler, M.C., Ledbetter, A.D., Watkinson, W.P., Campen, M.J., Winsett, D.W., Richards, J.R., Crissman, K.M., Hatch, G.E. & Costa, D.L. (2000b). The spontaneously hypertensive rat as a model of human cardiovascular disease: evidence of exacerbated cardiopulmonary injury and oxidative stress from inhaled emission particulate matter. *Toxicology and Applied Pharmacology*, 164, 250-263.
- Kuschner, W.G., D'Alessandro, A., Wong, H. & Blanc, P.D. (1997). Early pulmonary cytokine responses to zinc oxide fume inhalation. *Environmental Research*, 75, 7-11.
- Lambert, A.L., Dong, W., Selgrade, M.K. & Gilmour, M.I. (2000). Enhanced allergic sensitization by residual oil fly ash particles is mediated by soluble metal constituents. *Toxicology and Applied Pharmacology*, 165, 84-93.
- Lambert, A.L., Trasti, F.S., Mangum, J.B. & Everitt, J.I. (2003). Effect of preexposure to ultrafine carbon black on respiratory syncytial virus infection in mice. *Toxicological Sciences*, 72, 331-338.

- Lay, J.C., Bennett, W.D., Ghio, A.J., Bromberg, P.A., Costa, D.L., Kim, C.S., Koren, H.S. & Devlin, R.B. (1999). Cellular and biochemical response of the human lung after intrapulmonary instillation of ferric oxide particles. *American Journal of Respiratory Cell and Molecular Biology*, 20, 631-642.
- Lei, Y.C., Chan, C.C., Wang, P.Y., Lee, C.T. & Cheng, T.J. (2004a). Effects of Asian dust event particles on inflammation markers in peripheral blood and bronchoalveolar lavage in pulmonary hypertensive rats. *Environmental Research*, 95, 71-76.
- Lei, Y.C., Chen, M.C., Chan, C.C., Wang, P.Y., Lee, C.T. & Cheng, T.J. (2004b). Effects of concentrated ambient particles on airway responsiveness and pulmonary inflammation in pulmonary hypertensive rats. *Inhalation Toxicology*, 16, 785-792.
- Li, X.Y., Gilmour, P.S., Donaldson, K. & MacNee, W. (1996). Free radical activity and pro-inflammatory effects of particulate air pollution (PM10) in vivo and in vitro. *Thorax*, 51, 1216-1222.
- Lim, H.B., Ichinose, T., Miyabara, Y., Takano, H., Kumagai, Y., Shimojyo, N., Devalia, J.L. & Sagai, M. (1998). Involvement of superoxide and nitric oxide on airway inflammation and hyperresponsiveness induced by diesel exhaust particles in mice. *Free Radical Biology and Medicine*, 25, 635-644.
- Madden, M.C., Richards, J.H., Dailey, L.A., Hatch, G.E. & Ghio, A.J. (2000). Effect of ozone on diesel exhaust particle toxicity in rat lung. *Toxicology and Applied Pharmacology*, 168, 140-148.
- Madden, M.C., Thomas, M.J. & Ghio, A.J. (1999). Acetaldehyde (CH₃CHO) production in rodent lung after exposure to metal-rich particles. *Free Radical Biology and Medicine*, 26, 1569-1577.
- Miyabara, Y., Ichinose, T., Takano, H. & Sagai, M. (1998a). Diesel exhaust inhalation enhances airway hyperresponsiveness in mice. *International Archives of Allergy and Immunology*, 116, 124-131.
- Miyabara, Y., Takano, H., Ichinose, T., Lim, H.B. & Sagai, M. (1998b). Diesel exhaust enhances allergic airway inflammation and hyperresponsiveness in mice. *American Journal of Respiratory and Critical Care Medicine*, 157, 1138-1144.
- Miyabara, Y., Yanagisawa, R., Shimojo, N., Takano, H., Lim, H.B., Ichinose, T. & Sagai, M. (1998c). Murine strain differences in airway inflammation caused by diesel exhaust particles. *European Respiratory Journal*, 11, 291-298.

- Molhave, L., Kjaergaard, S.K., Sigsgaard, T. & Lebowitz, M. (2005). Interaction between ozone and airborne particulate matter in office air. *Indoor Air*, 15, 383-392.
- Molinelli, A.R., Madden, M.C., McGee, J.K., Stonehuerner, J.G. & Ghio, A.J. (2002). Effect of metal removal on the toxicity of airborne particulate matter from the Utah Valley. *Inhalation Toxicology*, 14, 1069-1086.
- Muranaka, M., Suzuki, S., Koizumi, K., Takafuji, S., Miyamoto, T., Ikemori, R. & Tokiwa, H. (1986). Adjuvant activity of diesel-exhaust particulates for the production of IgE antibody in mice. *Journal of Allergy and Clinical Immunology*, 77, 616-623.
- Nightingale, J.A., Maggs, R., Cullinan, P., Donnelly, L.E., Rogers, D.F., Kinnersley, R., Chung, K.F., Barnes, P.J., Ashmore, M. & Newman-Taylor, A. (2000). Airway inflammation after controlled exposure to diesel exhaust particulates. *American Journal of Respiratory and Critical Care Medicine*, 162, 161-166.
- Nordenhäll, C., Pourazar, J., Blomberg, A., Levin, J.O., Sandstrom, T. & Adelroth, E. (2000). Airway inflammation following exposure to diesel exhaust: a study of time kinetics using induced sputum. *European Respiratory Journal*, 15, 1046-1051.
- Nordenhäll, C., Pourazar, J., Ledin, M.C., Levin, J.O., Sandstrom, T. & Adelroth, E. (2001). Diesel exhaust enhances airway responsiveness in asthmatic subjects. *European Respiratory Journal*, 17, 909-915.
- Ohta, K., Yamashita, N., Tajima, M., Miyasaka, T., Nakano, J., Nakajima, M., Ishii, A., Horiuchi, T., Mano, K. & Miyamoto, T. (1999). Diesel exhaust particulate induces airway hyperresponsiveness in a murine model: essential role of GM-CSF. *Journal of Allergy and Clinical Immunology*, 104, 1024-1030.
- Ohyama, K., Taguchi, K. & T.Suzuki. (1998). Adjuvant activity of diesel exhaust particles in production of specific antibodies to fungi allergen in mice. *東京都立衛生研究所研究年報*, 49, 232-236.
- Pourazar, J., Mudway, I.S., Samet, J.M., Helleday, R., Blomberg, A., Wilson, S.J., Frew, A.J., Kelly, F.J. & Sandstrom, T. (2005). Diesel exhaust activates redox-sensitive transcription factors and kinases in human airways. *Am J Physiol Lung Cell Mol Physiol*, 289, L724-730.
- Rhoden, C.R., Lawrence, J., Godleski, J.J. & Gonzalez-Flecha, B. (2004). N-acetylcysteine prevents lung inflammation after short-term inhalation exposure to concentrated ambient particles. *Toxicological Sciences*, 79, 296-303.

- Rudell, B., Blomberg, A., Helleday, R., Ledin, M.C., Lundback, B., Stjernberg, N., Horstedt, P. & Sandstrom, T. (1999). Bronchoalveolar inflammation after exposure to diesel exhaust: comparison between unfiltered and particle trap filtered exhaust. *Occupational and Environmental Medicine*, 56, 527-534.
- Rudell, B., Ledin, M.C., Hammarstrom, U., Stjernberg, N., Lundback, B. & Sandstrom, T. (1996). Effects on symptoms and lung function in humans experimentally exposed to diesel exhaust. *Occupational and Environmental Medicine*, 53, 658-662.
- Rudell, B., Sandström, T., Stjernberg, N. & Kolmodin-Hedman, B. (1990). Controlled diesel exhaust exposure in an exposure chamber: pulmonary effects investigated with bronchoalveolar lavage *Journal of Aerosol Science*, 21, S411-S414
- Sagai, M., Furuyama, A. & Ichinose, T. (1996). Biological effects of diesel exhaust particles (DEP). III. Pathogenesis of asthma-like symptoms in mice. *Free Radical Biology and Medicine*, 21, 199-209.
- Sagai, M., Saito, H., Ichinose, T., Kodama, M. & Mori, Y. (1993). Biological effects of diesel exhaust particles. I. In vitro production of superoxide and in vivo toxicity in mouse. *Free Radical Biology and Medicine*, 14, 37-47.
- Saito, Y., Azuma, A., Kudo, S., Takizawa, H. & Sugawara, I. (2002). Long-term inhalation of diesel exhaust affects cytokine expression in murine lung tissues: comparison between low and high-dose diesel exhaust exposure. *Experimental Lung Research*, 28, 493-506.
- Saldiva, P.H., Clarke, R.W., Coull, B.A., Stearns, R.C., Lawrence, J., Murthy, G.G., Diaz, E., Koutrakis, P., Suh, H., Tsuda, A. & Godleski, J.J. (2002). Lung inflammation induced by concentrated ambient air particles is related to particle composition. *American Journal of Respiratory and Critical Care Medicine*, 165, 1610-1617.
- Salvi, S., Blomberg, A., Rudell, B., Kelly, F., Sandstrom, T., Holgate, S.T. & Frew, A. (1999). Acute inflammatory responses in the airways and peripheral blood after short-term exposure to diesel exhaust in healthy human volunteers. *American Journal of Respiratory and Critical Care Medicine*, 159, 702-709.
- Schins, R.P., Lightbody, J.H., 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. *Toxicology and Applied Pharmacology*, 195, 1-11.
- Silbajoris, R., Ghio, A.J., Samet, J.M., Jaskot, R., Dreher, K.L. & Brighton, L.E. (2000).

- In vivo and in vitro correlation of pulmonary MAP kinase activation following metallic exposure. *Inhalation Toxicology*, 12, 453-468.
- Soukup, J.M., Ghio, A.J. & Becker, S. (2000). Soluble components of Utah Valley particulate pollution alter alveolar macrophage function in vivo and in vitro. *Inhalation Toxicology*, 12, 401-414.
- Steenbergen, P.A., Withagen, C.E., van Dalen, W.J., Dormans, J.A., Heisterkamp, S.H., van Loveren, H. & Cassee, F.R. (2005). Dose dependency of adjuvant activity of particulate matter from five European sites in three seasons in an ovalbumin-mouse model. *Inhalation Toxicology*, 17, 133-145.
- Stenfors, N., Nordenhäll, C., Salvi, S.S., Mudway, I., Soderberg, M., Blomberg, A., Helleday, R., Levin, J.O., Holgate, S.T., Kelly, F.J., Frew, A.J. & Sandstrom, T. (2004). Different airway inflammatory responses in asthmatic and healthy humans exposed to diesel. *European Respiratory Journal*, 23, 82-86.
- Takafuji, S., Suzuki, S., Koizumi, K., Tadokoro, K., Miyamoto, T., Ikemori, R. & Muranaka, M. (1987). Diesel-exhaust particulates inoculated by the intranasal route have an adjuvant activity for IgE production in mice. *Journal of Allergy and Clinical Immunology*, 79, 639-645.
- Takano, H., Ichinose, T., Miyabara, Y., Shibuya, T., Lim, H.B., Yoshikawa, T. & Sagai, M. (1998a). Inhalation of diesel exhaust enhances allergen-related eosinophil recruitment and airway hyperresponsiveness in mice. *Toxicology and Applied Pharmacology*, 150, 328-337.
- Takano, H., Ichinose, T., Miyabara, Y., Yoshikawa, T. & Sagai, M. (1998b). Diesel exhaust particles enhance airway responsiveness following allergen exposure in mice. *Immunopharmacology and Immunotoxicology*, 20, 329-336.
- Takano, H., Yoshikawa, T., Ichinose, T., Miyabara, Y., Imaoka, K. & Sagai, M. (1997). Diesel exhaust particles enhance antigen-induced airway inflammation and local cytokine expression in mice. *American Journal of Respiratory and Critical Care Medicine*, 156, 36-42.
- Tunnicliffe, W.S., Evans, D.E., Mark, D., Harrison, R.M. & Ayres, J.G. (2001). The effect of exposure to sulphuric acid on the early asthmatic response to inhaled grass pollen allergen. *European Respiratory Journal*, 18, 640-646.
- Vincent, R., Bjarnason, S.G., Adamson, I.Y., Hedgecock, C., Kumarathasan, P., Guénette, J., Potvin, M., Goegan, P. & Bouthillier, L. (1997). Acute pulmonary toxicity of urban particulate matter and ozone. *American Journal of Pathology*, 151,

1563-1570.

- Win-Shwe, T.T., Yamamoto, S., Kakeyama, M., Kobayashi, T. & Fujimaki, H. (2005). Effect of intratracheal instillation of ultrafine carbon black on proinflammatory cytokine and chemokine release and mRNA expression in lung and lymph nodes of mice. *Toxicology and Applied Pharmacology*, 209, 51-61.
- Yang, H.M., Antonini, J.M., Barger, M.W., Butterworth, L., Roberts, B.R., Ma, J.K., Castranova, V. & Ma, J.Y. (2001). Diesel exhaust particles suppress macrophage function and slow the pulmonary clearance of *Listeria monocytogenes* in rats. *Environmental Health Perspectives*, 109, 515-521.
- Yin, X.J., Dong, C.C., Ma, J.Y., Antonini, J.M., Roberts, J.R., Barger, M.W. & Ma, J.K. (2005). Sustained effect of inhaled diesel exhaust particles on T-lymphocyte-mediated immune responses against *Listeria monocytogenes*. *Toxicological Sciences*, 88, 73-81.
- Zelikoff, J.T., Chen, L.C., Cohen, M.D., Fang, K., Gordon, T., Li, Y., Nadziejko, C. & Schlesinger, R.B. (2003). Effects of inhaled ambient particulate matter on pulmonary antimicrobial immune defense. *Inhalation Toxicology*, 15, 131-150.
- Zelikoff, J.T., Schermerhorn, K.R., Fang, K., Cohen, M.D. & Schlesinger, R.B. (2002). A role for associated transition metals in the immunotoxicity of inhaled ambient particulate matter. *Environmental Health Perspectives*, 110 Suppl 5, 871-875.
- 環境省. (2007a). (4) CAPs 曝露がマウスの細菌毒素に関連する肺傷害に与える影響とメカニズム解明に関する研究. 微小粒子状物質曝露影響調査報告書.
- 環境省. (2007b). (6) CAPs 曝露が老齢ラットの心機能に与える影響に関する研究. 微小粒子状物質曝露影響調査報告書.