

# **Variations In Susceptibility To Inhaled Pollutants Identification Mechanisms And Policy Implications The Johns Hopkins Series In Environmental Toxicology**

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inhaled acid-coated particles. Ohtsuka Y(1), Clarke RW, Mitzner W, Brunson K, Jakab GJ, Kleeberger SR. Author information: (1)Department of Environmental Health Sciences, The Johns Hopkins School of Hygiene and Public Health, Baltimore, Maryland 21205, USA. Interstrain variation in murine susceptibility to inhaled ... This paper provides perspective on the theme, variations in susceptibility to inhaled pollutants, and various subthemes of the symposium. Special attention is given to the need for refining our definitions of susceptible individuals as members of subpopulations in the context of the total population. Reflections on the Symposium: Susceptibility to Inhaled ... Measuring the variations in risk among susceptible individuals is necessary to assess correctly respiratory health risk due to inhaled pollutants at the population level, and subsequently to develop rational public health policy to reduce the incidence of those diseases in a given population. Individual susceptibility to inhaled pollutants ... Researchers have discovered many kinds of genes that were associated with asthma genesis and its therapy. Studies showed that variations of many genes were associated with asthma susceptibility 12, 13, 14, 15, 16, 17, 18, asthma severity , asthma airway hyperreactivity 20, 21, spirometry 22, 23, 24 and therapeutic response 25, 26, 27, 28. GLCCI1 Variation Is Associated with Asthma Susceptibility ... Environmental exposures to inhaled pollutants and genetic factors associated with disease risk likely interact in a complex fashion that varies from one population to another. The relationships between the genetic background and disease risk and severity is

often evaluated through traditional family-based linkage studies and positional cloning techniques. Genetic aspects of pulmonary responses to inhaled pollutants The proportion of amino acid residues that have a nonsynonymous polymorphism among the five target genes was very similar, being 3.1% in TLR1 (24/786 amino acids), 2.9% in TLR2 (23/784), 3.6% in TLR4 (30/839), 3.0% in TLR6 (24/796), and 3.1% in TLR10 (25/811). Twenty-four of the NSPs were present in all three ethnic groups, 22 in two ethnic groups, and 80 NSPs were found in only one ethnic ... Full-Exon Resequencing Reveals Toll-Like Receptor Variants ... The new findings of neuroendocrine activation leading to systemic metabolic and immunological effects of air pollutants, and the potential contribution to allostatic load, emphasize the consideration of these mechanisms into susceptibility. Variations in susceptibility to air pollution health effects are likely to underlie host genetic and physiological conditions in concert with disrupted neuroendocrine circuitry that alters physiological stability under the influence of stressors. Susceptibility Variations in Air Pollution Health Effects ... Benzene is a prototypical human and rodent hematotoxic and genotoxic carcinogen and a ubiquitous environmental pollutant. As a constituent of gasoline and cigarette smoke, benzene poses a potential health threat to a broad spectrum of individuals (Runion and Scott, 1985; Wallace, 1990). Benzene is a lipid-soluble, volatile organic compound that is rapidly absorbed following short-term ... Variations in Prkdc and Susceptibility to Benzene-Induced ... The gene variation was found significantly more frequently in patients with squamous

cell carcinoma (25.0%,  $P=0.016$ , odds ratio=3.2, 95%CI=1.24-8.28) than in the controls. These results indicate an association of the surfactant protein B intron 4 variants and/or its flanking loci with mechanisms that may enhance lung cancer susceptibility ... Surfactant protein B gene variations enhance ... Ozone has been linked to respiratory morbidity in population studies, and it is also apparent that there is marked inter-individual variation in response to ozone exposure in adults and children. Genetic Mechanisms of Susceptibility to Inhaled Pollutants ... Ohtsuka Y, Clarke RW, Mitzner W, Brunson K, Jakab GJ, Kleeberger SR. Interstrain variation in murine susceptibility to inhaled acid-coated particles. American Journal of Physiology. Lung Cellular and Molecular Physiology 2000;278(3):L469-L476. R825815 (Final) not available Final Report | Effect of Inhaled Acid-Coated Particles on ... 2000 Progress Report: Genetic Mechanisms of Susceptibility to Inhaled Pollutants EPA Grant Number: R826724C003 Subproject: this is subproject number 003 , established and managed by the Center Director under grant R826724 (EPA does not fund or establish subprojects; EPA awards and manages the overall grant for this center).

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