

Table S1. All Search Results.

Author(s)	Journal	Title	Year	Volume	Issue	Database
S. K. Ahluwalia and E. C. Matsui	Curr Opin Allergy Clin Immunol	The indoor environment and its effects on childhood asthma	2011	11	2	PubMed
A. H. Ali, et al.	Mol Carcinog	Aberrant DNA methylation of some tumor suppressor genes in lung cancers from workers with chromate exposure	2011	50	2	PubMed
F. Angelini, et al.	Oxid Med Cell Longev	The Impact of Environmental Factors in Influencing Epigenetics Related to Oxidative States in the Cardiovascular System	2017	2017		PubMed
Y. Bai, et al.	J Med Genet	Gene editing as a promising approach for respiratory diseases	2018	55	3	PubMed
B. F. Bessac and S. E. Jordt	Proc Am Thorac Soc	Sensory detection and responses to toxic gases: mechanisms, health effects, and countermeasures	2010	7	4	PubMed
M. A. Bind, et al.	Epidemiology	Air pollution and markers of coagulation, inflammation, and endothelial function: associations and epigene-environment interactions in an elderly cohort	2012	23	2	PubMed
A. K. Boehme, et al.	Circ Res	Stroke Risk Factors, Genetics, and Prevention	2017	120	3	PubMed
C. V. Breton, et al.	Environ Health Perspect	Prenatal Air Pollution Exposures, DNA Methyl Transferase Genotypes, and Associations with Newborn LINE1 and Alu Methylation and Childhood Blood Pressure and Carotid Intima-Media Thickness in the Children's Health Study	2016	124	12	PubMed
H. Cai and C. Wang	Chest	Surviving With Smog and Smoke: Precision Interventions?	2017	152	5	PubMed
C. Canova, et al.	Epidemiology	PM10-induced hospital admissions for asthma and chronic obstructive pulmonary disease: the modifying effect of individual characteristics	2012	23	4	PubMed
D. Cao, et al.	Am J Respir Cell Mol Biol	COX-2 expression induced by diesel particles involves chromatin modification and degradation of HDAC1	2007	37	2	PubMed
C. Carlsten and E. Melen	Curr Opin Allergy Clin Immunol	Air pollution, genetics, and allergy: an update	2012	12	5	PubMed
M. Cresci, et al.	Am J Cardiol	Maternal and paternal environmental risk factors, metabolizing GSTM1 and GSTT1 polymorphisms, and congenital heart disease	2011	108	11	PubMed
D. Cyranoski, et al.	Nature	Science stars of East Asia	2018	558	7711	PubMed
G. D'Amato, et al.	Monaldi Arch Chest Dis	Environment and development of respiratory allergy: I. Outdoors	1994	49	5	PubMed
N. Dey, et al.	J Biosci	Activated charcoal filter effectively reduces p-benzosemiquinone from the mainstream cigarette smoke and prevents emphysema	2010	35	2	PubMed
N. Ding, et al.	PLoS One	Lead-Related Genetic Loci, Cumulative Lead Exposure and Incident Coronary Heart Disease: The Normative Aging Study	2016	11	9	PubMed
K. Donaldson and C. A. Poland	Swiss Med Wkly	Inhaled nanoparticles and lung cancer - what we can learn from conventional particle toxicology	2012	142		PubMed
R. M. Effros and H. Nagaraj	Curr Opin Pulm Med	Asthma: new developments concerning immune mechanisms, diagnosis and treatment	2007	13	1	PubMed
I. C. Eze, et al.	Int J Environ Res Public Health	Exposure to Night-Time Traffic Noise, Melatonin-Regulating Gene Variants and Change in Glycemia in Adults	2017	14	12	PubMed
I. C. Eze, et al.	Environ Int	Air pollution and diabetes association: Modification by type 2 diabetes genetic risk score	2016	94		PubMed
M. Fathy, et al.	Mol Diagn Ther	Association between environmental tobacco smoke exposure and lung cancer susceptibility: modification by antioxidant enzyme genetic polymorphisms	2014	18	1	PubMed
J. M. Gaffin and W. Phipatanakul	Curr Opin Allergy Clin Immunol	The role of indoor allergens in the development of asthma	2009	9	2	PubMed
L. Gan, et al.	Int J Chron Obstruct Pulmon Dis	Curcumin modulates the effect of histone modification on the expression of chemokines by type II alveolar epithelial cells in a rat COPD model	2016	11		PubMed
S. E. Gomez-Mejiba, et al.	Mutat Res	Inhalation of environmental stressors & chronic inflammation: autoimmunity and neurodegeneration	2009	674	2-Jan	PubMed
L. M. Graham	Paediatr Respir Rev	All I need is the air that I breath: outdoor air quality and asthma	2004	5 Suppl A		PubMed
D. J. Gregory, et al.	Am J Physiol Lung Cell Mol Physiol	Transgenerational transmission of asthma risk after exposure to environmental particles during pregnancy	2017	313	2	PubMed
I. Gupta, et al.	Proc Natl Acad Sci U S A	Ascorbate attenuates pulmonary emphysema by inhibiting tobacco smoke and Rtp801-triggered lung protein modification and proteolysis	2016	113	29	PubMed
N. Hakansson, et al.	Am J Epidemiol	Occupational exposure to extremely low frequency magnetic fields and mortality from cardiovascular disease	2003	158	6	PubMed
S. Han, et al.	Mol Biol Rep	Resveratrol affects histone 3 lysine 27 methylation of vessels and blood biomarkers in DOCA salt-induced hypertension	2015	42	1	PubMed
A. L. Hansell, et al.	Environ Health	Childhood fish oil supplementation modifies associations between traffic related air pollution and allergic sensitisation	2018	17	1	PubMed
A. J. Henderson, et al.	Thorax	Maternal Nrf2 and glutathione-S-transferase polymorphisms do not modify associations of prenatal tobacco smoke exposure with asthma and lung function in school-aged children	2010	65	10	PubMed
B. Hennig, et al.	Nutr Metab Cardiovasc Dis	Environmental toxicity, nutrition, and gene interactions in the development of atherosclerosis	2007	17	2	PubMed
M. Hodjat, et al.	Arch Toxicol	Environmental toxicants, incidence of degenerative diseases, and therapies from the epigenetic point of view	2017	91	7	PubMed
X. Huang, et al.	Bull Cancer	Methylation analysis for multiple gene promoters in non-small cell lung cancers in high indoor air pollution region in China	2018	105	9	PubMed
S. E. Humphries, et al.	Arterioscler Thromb Vasc Biol	Genetic testing for cardiovascular disease susceptibility: a useful clinical management tool or possible misinformation?	2004	24	4	PubMed
B. F. Hwang, et al.	PLoS One	Fine particle, ozone exposure, and asthma/wheezing: effect modification by glutathione S-transferase P1 polymorphisms	2013	8	1	PubMed

J. J. Jaakkola, et al.	Environ Health Perspect	Environmental tobacco smoke, parental atopy, and childhood asthma	2001	109	6	PubMed
D. Jaffuel, et al.	Rev Mal Respir	[The epidemiology and genetics of asthma. I. Descriptive epidemiology and analysis of environmental factors]	1996	13	5	PubMed
A. Jeong, et al.	Int J Environ Res Public Health	DNA Methylation in Inflammatory Pathways Modifies the Association between BMI and Adult-Onset Non-Atopic Asthma	2019	16	4	PubMed
M. A. Jhun, et al.	Environ Health	Effect modification by vitamin D receptor genetic polymorphisms in the association between cumulative lead exposure and pulse pressure: a longitudinal study	2015	14		PubMed
L. G. Johnson, et al.	J Virol	Effect of host modification and age on airway epithelial gene transfer mediated by a murine leukemia virus-derived vector	1998	72	11	PubMed
M. Kabesch	Curr Opin Allergy Clin Immunol	Epigenetics in asthma and allergy	2014	14	1	PubMed
C. Kiyohara, et al.	Int J Cancer	Risk modification by CYP1A1 and GSTM1 polymorphisms in the association of environmental tobacco smoke and lung cancer: a case-control study in Japanese nonsmoking women	2003	107	1	PubMed
E. C. Klingbeil, et al.	Immunol Res	Polycyclic aromatic hydrocarbons, tobacco smoke, and epigenetic remodeling in asthma	2014	58	3-Feb	PubMed
B. Kljaic-Bukvic, et al.	Pediatr Allergy Immunol	Genetic variants in endotoxin signalling pathway, domestic endotoxin exposure and asthma exacerbations	2014	25	6	PubMed
Y. A. Ko, et al.	Epidemiology	Classification and Clustering Methods for Multiple Environmental Factors in Gene-Environment Interaction: Application to the Multi-Ethnic Study of Atherosclerosis	2016	27	6	PubMed
J. K. Kresovich, et al.	Biomarkers	Histone 3 modifications and blood pressure in the Beijing Truck Driver Air Pollution Study	2017	22	6	PubMed
C. C. Kuo, et al.	Curr Diab Rep	Environmental chemicals and type 2 diabetes: an updated systematic review of the epidemiologic evidence	2013	13	6	PubMed
C. H. Kuo, et al.	Asia Pac Allergy	Epigenetic regulation in allergic diseases and related studies	2014	4	1	PubMed
L. I. Landau	Paediatr Respir Rev	Paediatric basis of adult lung disease	2006	7 Suppl 1		PubMed
C. Lau, et al.	Obstet Gynecol	Fetal programming of adult disease: implications for prenatal care	2011	117	4	PubMed
S. Y. Lee, et al.	BMC Pulm Med	Modification of additive effect between vitamins and ETS on childhood asthma risk according to GSTP1 polymorphism: a cross -sectional study	2015	15		PubMed
S. Leng, et al.	Carcinogenesis	Genetic variation in SIRT1 affects susceptibility of lung squamous cell carcinomas in former uranium miners from the Colorado plateau	2013	34	5	PubMed
J. Li, et al.	Clin Respir J	Particulate matter-induced epigenetic changes and lung cancer	2017	11	5	PubMed
X. Li, et al.	Sci Rep	Modification of the association between maternal smoke exposure and congenital heart defects by polymorphisms in glutathione S-transferase genes	2015	5		PubMed
W. Y. Lim and A. Seow	Respirology	Biomass fuels and lung cancer	2012	17	1	PubMed
M. Littorin, et al.	Int Arch Occup Environ Health	Influence of polymorphic metabolic enzymes on biotransformation and effects of diphenylmethane diisocyanate	2008	81	4	PubMed
A. H. Liu, et al.	J Allergy Clin Immunol	Advances in asthma 2015: Across the lifespan	2016	138	2	PubMed
P. Ljungman, et al.	Environ Health Perspect	Modification of the interleukin-6 response to air pollution by interleukin-6 and fibrinogen polymorphisms	2009	117	9	PubMed
J. C. Luo, et al.	J Occup Environ Med	Decreased lung function associated with occupational exposure to epichlorohydrin and the modification effects of glutathione s-transferase polymorphisms	2004	46	3	PubMed
M. E. Lustberg, et al.	J Occup Environ Med	The G(894)-T(894) polymorphism in the gene for endothelial nitric oxide synthase and blood pressure in lead-exposed workers from Korea	2004	46	6	PubMed
D. P. Miller, et al.	Int J Cancer	Association between self-reported environmental tobacco smoke exposure and lung cancer: modification by GSTP1 polymorphism	2003	104	6	PubMed
A. Misra, et al.	J Nutr	Black tea prevents cigarette smoke-induced oxidative damage of proteins in guinea pigs	2003	133	8	PubMed
I. Mordukhovich, et al.	Epidemiology	Association Between Particulate Air Pollution and QT Interval Duration in an Elderly Cohort	2016	27	2	PubMed
I. Mordukhovich, et al.	Environ Health Perspect	Black carbon exposure, oxidative stress genes, and blood pressure in a repeated-measures study	2009	117	11	PubMed
K. Nakachi, et al.	Cancer Res	Polymorphisms of the CYP1A1 and glutathione S-transferase genes associated with susceptibility to lung cancer in relation to cigarette dose in a Japanese population	1993	53	13	PubMed
A. M. Neophytou, et al.	Am J Respir Crit Care Med	Air Pollution and Lung Function in Minority Youth with Asthma in the GALA II (Genes-Environments and Admixture in Latino Americans) and SAGE II (Study of African Americans, Asthma, Genes, and Environments) Studies	2016	193	11	PubMed
J. M. Ordovas and C. E. Smith	Nat Rev Cardiol	Epigenetics and cardiovascular disease	2010	7	9	PubMed
B. Ouyang, et al.	Toxicol Sci	Interferon-gamma promoter is hypermethylated in blood DNA from workers with confirmed diisocyanate asthma	2013	133	2	PubMed
S. E. Ozanne and M. Constancia	Nat Clin Pract Endocrinol Metab	Mechanisms of disease: the developmental origins of disease and the role of the epigenotype	2007	3	7	PubMed
A. Peters, et al.	Inhal Toxicol	Air pollution and inflammatory response in myocardial infarction survivors: gene-environment interactions in a high-risk group	2007	19 Suppl 1		PubMed
P. Pisani, et al.	Cancer Epidemiol Biomarkers Prev	GSTM1 and CYP1A1 polymorphisms, tobacco, air pollution, and lung cancer: a study in rural Thailand	2006	15	4	PubMed
S. M. Reamon-Buettner, et al.	Mutat Res	The next innovation cycle in toxicogenomics: environmental epigenetics	2008	659	2-Jan	PubMed

D. Q. Rich, et al.	Res Rep Health Eff Inst	Ambient and Controlled Particle Exposures as Triggers for Acute ECG Changes	2016		186	PubMed
G. Rico-Rosillo, et al.	Rev Alerg Mex	[Epigenetics, environment and asthma]	2014	61	2	PubMed
A. Safwat, et al.	Int J Radiat Oncol Biol Phys	Deterministic rather than stochastic factors explain most of the variation in the expression of skin telangiectasia after radiotherapy	2002	52	1	PubMed
M. T. Salam, et al.	Epigenomics	Epigenetics and childhood asthma: current evidence and future research directions	2012	4	4	PubMed
A. Scesnaite, et al.	Mutagenesis	Similar DNA methylation pattern in lung tumours from smokers and never-smokers with second-hand tobacco smoke exposure	2012	27	4	PubMed
G. Schmolz	Offentl Gesundheitswes	[The carcinogenic effect of asbestos]	1989	51	10	PubMed
W. Schnass, et al.	Int J Hyg Environ Health	Traffic-related air pollution and eczema in the elderly: Findings from the SALIA cohort	2018	221	6	PubMed
M. Scott, et al.	Thorax	Multifaceted allergen avoidance during infancy reduces asthma during childhood with the effect persisting until age 18 years	2012	67	12	PubMed
H. Skuladottir, et al.	Lung Cancer	Polymorphisms in genes involved in xenobiotic metabolism and lung cancer risk under the age of 60 years. A pooled study of lung cancer patients in Denmark and Norway	2005	48	2	PubMed
P. D. Sly	Curr Opin Allergy Clin Immunol	The early origins of asthma: who is really at risk?	2011	11	1	PubMed
H. K. Somineni, et al.	J Allergy Clin Immunol	Ten-eleven translocation 1 (TET1) methylation is associated with childhood asthma and traffic-related air pollution	2016	137	3	PubMed
A. Sood, et al.	Am J Respir Crit Care Med	Wood smoke exposure and gene promoter methylation are associated with increased risk for COPD in smokers	2010	182	9	PubMed
D. I. Suh, et al.	Allergy Asthma Immunol Res	Prenatal Maternal Distress and Allergic Diseases in Offspring: Review of Evidence and Possible Pathways	2017	9	3	PubMed
I. K. Sundar, et al.	J Proteome Res	Cigarette smoke induces distinct histone modifications in lung cells: implications for the pathogenesis of COPD and lung cancer	2014	13	2	PubMed
I. K. Sundar and I. Rahman	Front Pharmacol	Vitamin d and susceptibility of chronic lung diseases: role of epigenetics	2011	2		PubMed
M. Talikka, et al.	Crit Rev Toxicol	Genomic impact of cigarette smoke, with application to three smoking-related diseases	2012	42	10	PubMed
L. K. Williams, et al.	Ann Allergy Asthma Immunol	Gene-environment interactions between CD14 C-260T and endotoxin exposure on Foxp3+ and Foxp3- CD4+ lymphocyte numbers and total serum IgE levels in early childhood	2008	100	2	PubMed
S. S. Wise, et al.	Rev Environ Health	Hexavalent chromium-induced DNA damage and repair mechanisms	2008	23	1	PubMed
S. Xu, et al.	Int J Cardiol	Targeting hydrogen sulfide as a promising therapeutic strategy for atherosclerosis	2014	172	2	PubMed
H. Zhang, et al.	Occup Environ Med	TNF polymorphisms modify endotoxin exposure-associated longitudinal lung function decline	2007	64	6	PubMed
H. Zheng, et al.	PLoS One	Genome-wide alteration in DNA hydroxymethylation in the sperm from bisphenol A-exposed men	2017	12	6	PubMed