

# Andrea Rossnerova

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

1,299  
citations

304368

22  
h-index

395343

33  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1894  
citing authors

#	ARTICLE	IF	CITATIONS
1	Health impact of air pollution to children. International Journal of Hygiene and Environmental Health, 2013, 216, 533-540.	2.1	82
2	Factors affecting the 27K DNA methylation pattern in asthmatic and healthy children from locations with various environments. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2013, 741-742, 18-26.	0.4	73
3	Automated scoring of lymphocyte micronuclei by the MetaSystems Metafer image cytometry system and its application in studies of human mutagen sensitivity and biodosimetry of genotoxin exposure. Mutagenesis, 2011, 26, 169-175.	1.0	67
4	Impact of air pollution on oxidative DNA damage and lipid peroxidation in mothers and their newborns. International Journal of Hygiene and Environmental Health, 2016, 219, 545-556.	2.1	63
5	HUMN project initiative and review of validation, quality control and prospects for further development of automated micronucleus assays using image cytometry systems. International Journal of Hygiene and Environmental Health, 2013, 216, 541-552.	2.1	62
6	Evaluation of 11 polycyclic aromatic hydrocarbon metabolites in urine of Czech mothers and newborns. Science of the Total Environment, 2017, 577, 212-219.	3.9	52
7	Relationship between atmospheric pollution in the residential area and concentrations of polycyclic aromatic hydrocarbons (PAHs) in human breast milk. Science of the Total Environment, 2016, 562, 640-647.	3.9	50
8	The impact of air pollution on the levels of micronuclei measured by automated image analysis. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2009, 669, 42-47.	0.4	47
9	Analysis of biomarkers in a Czech population exposed to heavy air pollution. Part II: chromosomal aberrations and oxidative stress. Mutagenesis, 2013, 28, 97-106.	1.0	44
10	Environmental exposure to carcinogenic polycyclic aromatic hydrocarbons – The interpretation of cytogenetic analysis by FISH. Toxicology Letters, 2007, 172, 12-20.	0.4	43
11	The Molecular Mechanisms of Adaptive Response Related to Environmental Stress. International Journal of Molecular Sciences, 2020, 21, 7053.	1.8	41
12	Kinetics of ROS generation induced by polycyclic aromatic hydrocarbons and organic extracts from ambient air particulate matter in model human lung cell lines. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2018, 827, 50-58.	0.9	34
13	Oxidative stress and chromosomal aberrations in an environmentally exposed population. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2011, 707, 34-41.	0.4	33
14	Factors affecting the frequency of micronuclei in asthmatic and healthy children from Ostrava. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2011, 708, 44-49.	0.4	31
15	Reduced gene expression levels after chronic exposure to high concentrations of air pollutants. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2015, 780, 60-70.	0.4	27
16	DNA Methylation Profiles in a Group of Workers Occupationally Exposed to Nanoparticles. International Journal of Molecular Sciences, 2020, 21, 2420.	1.8	27
17	Expression of XRCC5 in peripheral blood lymphocytes is upregulated in subjects from a heavily polluted region in the Czech Republic. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2011, 713, 76-82.	0.4	26
18	DNA Damage Potential of Engine Emissions Measured <i>In Vitro</i> by Micronucleus Test in Human Bronchial Epithelial Cells. Basic and Clinical Pharmacology and Toxicology, 2017, 121, 102-108.	1.2	26

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19	Day-to-day variability of toxic events induced by organic compounds bound to size segregated atmospheric aerosol. <i>Environmental Pollution</i> , 2015, 202, 135-145.	3.7	25
20	Systematic review of the use of the lymphocyte cytokinesis-block micronucleus assay to measure DNA damage induced by exposure to polycyclic aromatic hydrocarbons. <i>Mutation Research - Reviews in Mutation Research</i> , 2016, 770, 162-169.	2.4	25
21	Urinary 8-oxo-7,8-dihydro-2- $\epsilon$ -deoxyguanosine analysis by an improved ELISA: An inter-laboratory comparison study. <i>Free Radical Biology and Medicine</i> , 2016, 95, 169-179.	1.3	24
22	Inhalation of ZnO Nanoparticles: Splice Junction Expression and Alternative Splicing in Mice. <i>Toxicological Sciences</i> , 2019, 168, 190-200.	1.4	24
23	Gene Expression and Epigenetic Changes in Mice Following Inhalation of Copper(II) Oxide Nanoparticles. <i>Nanomaterials</i> , 2020, 10, 550.	1.9	24
24	The European Hot Spot of B[a]P and PM <sub>2.5</sub> Exposure—The Ostrava Region, Czech Republic: Health Research Results. , 2013, 2013, 1-12.		23
25	Micronuclei levels in mothers and their newborns from regions with different types of air pollution. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2011, 715, 72-78.	0.4	22
26	Biomarkers of exposure and effect—interpretation in human risk assessment. <i>Air Quality, Atmosphere and Health</i> , 2011, 4, 161-167.	1.5	22
27	Adaptation of the human population to the environment: Current knowledge, clues from Czech cytogenetic and "omics" biomonitoring studies and possible mechanisms. <i>Mutation Research - Reviews in Mutation Research</i> , 2017, 773, 188-203.	2.4	19
28	Short-term and Long-term Exposure of the MucilAir <sub>2</sub> Model to Polycyclic Aromatic Hydrocarbons. <i>ATLA Alternatives To Laboratory Animals</i> , 2019, 47, 9-18.	0.7	19
29	Three-Year Study of Markers of Oxidative Stress in Exhaled Breath Condensate in Workers Producing Nanocomposites, Extended by Plasma and Urine Analysis in Last Two Years. <i>Nanomaterials</i> , 2020, 10, 2440.	1.9	18
30	The Differential Effect of Carbon Dots on Gene Expression and DNA Methylation of Human Embryonic Lung Fibroblasts as a Function of Surface Charge and Dose. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4763.	1.8	18
31	The Impact of Air Pollution Exposure on the MicroRNA Machinery and Lung Cancer Development. <i>Journal of Personalized Medicine</i> , 2021, 11, 60.	1.1	17
32	Genome-Wide DNA Methylation in Policemen Working in Cities Differing by Major Sources of Air Pollution. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1666.	1.8	16
33	Mapping the factors affecting the frequency and types of micronuclei in an elderly population from Southern Bohemia. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2016, 793-794, 32-40.	0.4	14
34	Analysis of Genetic Damage in Lymphocytes of Former Uranium Processing Workers. <i>Cytogenetic and Genome Research</i> , 2015, 147, 17-23.	0.6	13
35	The Biological Effects of Complete Gasoline Engine Emissions Exposure in a 3D Human Airway Model (MucilAir <sup>TM</sup> ) and in Human Bronchial Epithelial Cells (BEAS-2B). <i>International Journal of Molecular Sciences</i> , 2019, 20, 5710.	1.8	13
36	Telomere length in peripheral blood lymphocytes related to genetic variation in telomerase, prognosis and clinicopathological features in breast cancer patients. <i>Mutagenesis</i> , 2020, 35, 491-497.	1.0	11

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37	Nucleotide Excision Repair Is Not Induced in Human Embryonic Lung Fibroblasts Treated with Environmental Pollutants. <i>PLoS ONE</i> , 2013, 8, e69197.	1.1	10
38	Nonhomologous DNA end joining and chromosome aberrations in human embryonic lung fibroblasts treated with environmental pollutants. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2014, 763-764, 28-38.	0.4	10
39	The repeated cytogenetic analysis of subjects occupationally exposed to nanoparticles: a pilot study. <i>Mutagenesis</i> , 2019, 34, 253-263.	1.0	10
40	Genotoxicant exposure, activation of the aryl hydrocarbon receptor, and lipid peroxidation in cultured human alveolar type II A549 cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2020, 853, 503173.	0.9	9
41	Gene expression profiling in healthy newborns from diverse localities of the Czech Republic. <i>Environmental and Molecular Mutagenesis</i> , 2018, 59, 401-415.	0.9	8
42	The processes associated with lipid peroxidation in human embryonic lung fibroblasts, treated with polycyclic aromatic hydrocarbons and organic extract from particulate matter. <i>Mutagenesis</i> , 2019, 34, 153-164.	1.0	8
43	Frequency of chromosomal aberrations in Prague mothers and their newborns. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2010, 699, 29-34.	0.9	7
44	Newborns health in the Danube Region: Environment, biomonitoring, interventions and economic benefits in a large prospective birth cohort study. <i>Environment International</i> , 2016, 88, 112-122.	4.8	7
45	The genotoxic effects in the leukocytes of workers handling nanocomposite materials. <i>Mutagenesis</i> , 2020, 35, 331-340.	1.0	7
46	Markers of lipid oxidation and inflammation in bronchial cells exposed to complete gasoline emissions and their organic extracts. <i>Chemosphere</i> , 2021, 281, 130833.	4.2	7
47	Impact of Air Pollution to Genome of Newborns. <i>Central European Journal of Public Health</i> , 2016, 24, S40-S44.	0.4	7
48	Ordinary Gasoline Emissions Induce a Toxic Response in Bronchial Cells Grown at Air-Liquid Interface. <i>International Journal of Molecular Sciences</i> , 2021, 22, 79.	1.8	7
49	Testing Strategies of the In Vitro Micronucleus Assay for the Genotoxicity Assessment of Nanomaterials in BEAS-2B Cells. <i>Nanomaterials</i> , 2021, 11, 1929.	1.9	6
50	Individual DNA Methylation Pattern Shifts in Nanoparticles-Exposed Workers Analyzed in Four Consecutive Years. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7834.	1.8	6
51	Micronucleus frequency and content in healthy relatives of cancer patients. <i>Biomarkers</i> , 2017, 22, 1-7.	0.9	4
52	Oxidative Stress and Antioxidant Response in Populations of the Czech Republic Exposed to Various Levels of Environmental Pollutants. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 3609.	1.2	4
53	The Impact of Cesarean and Vaginal Delivery on Results of Psychological Cognitive Test in 5 Year Old Children. <i>Medicina (Lithuania)</i> , 2020, 56, 554.	0.8	3
54	Perinatal health in the Danube region – new birth cohort justified. <i>Reviews on Environmental Health</i> , 2017, 32, 9-14.	1.1	2

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55	Molecular Epidemiology and Air Pollution. , 0, , .		1
56	Oxidative stress in newborns by different modes of delivery. Neuroendocrinology Letters, 2016, 37, 445-451.	0.2	1
57	The MetaSystems Metafer System â€™ Applications in Biomonitoring Studies and Measurement of Baseline Frequencies in Human Populations. Qscience Proceedings, 2012, 2012, 7.	0.0	0
58	Molecular Epidemiology Focused on Airborne Carcinogens. Molecular and Integrative Toxicology, 2015, , 185-212.	0.5	0