

# Hyang-Min Byun

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97  
papers

4,920  
citations

38  
h-index

69  
g-index

99  
ext. papers

5,562  
ext. citations

5.5  
avg. IF

5.39  
L-index

#	Paper	IF	Citations
97	Changes in DNA methylation patterns in subjects exposed to low-dose benzene. <i>Cancer Research</i> , <b>2007</b> , 67, 876-80	10.1	508
96	Prenatal tobacco smoke exposure affects global and gene-specific DNA methylation. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2009</b> , 180, 462-7	10.2	490
95	Genome-scale analysis of aberrant DNA methylation in colorectal cancer. <i>Genome Research</i> , <b>2012</b> , 22, 271-82	9.7	466
94	Hypomethylation of a LINE-1 promoter activates an alternate transcript of the MET oncogene in bladders with cancer. <i>PLoS Genetics</i> , <b>2010</b> , 6, e1000917	6	210
93	Epigenetic profiling of somatic tissues from human autopsy specimens identifies tissue- and individual-specific DNA methylation patterns. <i>Human Molecular Genetics</i> , <b>2009</b> , 18, 4808-17	5.6	206
92	Effects of airborne pollutants on mitochondrial DNA methylation. <i>Particle and Fibre Toxicology</i> , <b>2013</b> , 10, 18	8.4	136
91	Changes in DNA methylation of tandem DNA repeats are different from interspersed repeats in cancer. <i>International Journal of Cancer</i> , <b>2009</b> , 125, 723-9	7.5	124
90	Placental mitochondrial methylation and exposure to airborne particulate matter in the early life environment: An ENVIRONAGE birth cohort study. <i>Epigenetics</i> , <b>2015</b> , 10, 536-44	5.7	123
89	Examination of IGF2 and H19 loss of imprinting in bladder cancer. <i>Cancer Research</i> , <b>2007</b> , 67, 10753-8	10.1	111
88	Genetic and epigenetic variations in inducible nitric oxide synthase promoter, particulate pollution, and exhaled nitric oxide levels in children. <i>Journal of Allergy and Clinical Immunology</i> , <b>2012</b> , 129, 232-9.e11-7	11.5	97
87	Platelet mitochondrial DNA methylation: a potential new marker of cardiovascular disease. <i>Clinical Epigenetics</i> , <b>2015</b> , 7, 44	7.7	92
86	DNA methylation in the arginase-nitric oxide synthase pathway is associated with exhaled nitric oxide in children with asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2011</b> , 184, 191-7	10.2	85
85	Predicting DNA methylation level across human tissues. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, 3515-28	20.1	81
84	Increased mitochondrial DNA copy number in occupations associated with low-dose benzene exposure. <i>Environmental Health Perspectives</i> , <b>2012</b> , 120, 210-5	8.4	81
83	Particulate matter, DNA methylation in nitric oxide synthase, and childhood respiratory disease. <i>Environmental Health Perspectives</i> , <b>2012</b> , 120, 1320-6	8.4	76
82	Long-term epigenetic therapy with oral zebularine has minimal side effects and prevents intestinal tumors in mice. <i>Cancer Prevention Research</i> , <b>2008</b> , 1, 233-40	3.2	76
81	Particulate Air Pollution and Fasting Blood Glucose in Nondiabetic Individuals: Associations and Epigenetic Mediation in the Normative Aging Study, 2000-2011. <i>Environmental Health Perspectives</i> , <b>2016</b> , 124, 1715-1721	8.4	74

80	Effects of Air Pollution and Blood Mitochondrial DNA Methylation on Markers of Heart Rate Variability. <i>Journal of the American Heart Association</i> , <b>2016</b> , 5,	6	65
79	Association between birth weight and DNA methylation of IGF2, glucocorticoid receptor and repetitive elements LINE-1 and Alu. <i>Epigenomics</i> , <b>2013</b> , 5, 271-81	4.4	63
78	Morphine induces redox-based changes in global DNA methylation and retrotransposon transcription by inhibition of excitatory amino acid transporter type 3-mediated cysteine uptake. <i>Molecular Pharmacology</i> , <b>2014</b> , 85, 747-57	4.3	59
77	Biodistribution and tissue expression kinetics of plasmid DNA complexed with polyethylenimines of different molecular weight and structure. <i>Journal of Controlled Release</i> , <b>2007</b> , 118, 118-25	11.7	58
76	Identification of preferential target sites for human DNA methyltransferases. <i>Nucleic Acids Research</i> , <b>2011</b> , 39, 104-18	20.1	57
75	Effects of particulate matter exposure on blood 5-hydroxymethylation: results from the Beijing truck driver air pollution study. <i>Epigenetics</i> , <b>2015</b> , 10, 633-42	5.7	54
74	Offspring DNA methylation of the aryl-hydrocarbon receptor repressor gene is associated with maternal BMI, gestational age, and birth weight. <i>Epigenetics</i> , <b>2015</b> , 10, 913-21	5.7	54
73	Effects of short-term exposure to inhalable particulate matter on DNA methylation of tandem repeats. <i>Environmental and Molecular Mutagenesis</i> , <b>2014</b> , 55, 322-35	3.2	51
72	Environmental exposure and mitochondrial epigenetics: study design and analytical challenges. <i>Human Genetics</i> , <b>2014</b> , 133, 247-57	6.3	45
71	Enhanced brain targeting efficiency of intranasally administered plasmid DNA: an alternative route for brain gene therapy. <i>Journal of Molecular Medicine</i> , <b>2007</b> , 85, 75-83	5.5	44
70	Evolutionary age of repetitive element subfamilies and sensitivity of DNA methylation to airborne pollutants. <i>Particle and Fibre Toxicology</i> , <b>2013</b> , 10, 28	8.4	43
69	Boswellic acid induces epigenetic alterations by modulating DNA methylation in colorectal cancer cells. <i>Cancer Biology and Therapy</i> , <b>2012</b> , 13, 542-52	4.6	43
68	Impaired E Prostanoid2 Expression and Resistance to Prostaglandin E2 in Nasal Polyp Fibroblasts from Subjects with Aspirin-Exacerbated Respiratory Disease. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2016</b> , 54, 34-40	5.7	42
67	Prenatal exposure to mixtures of xenoestrogens and repetitive element DNA methylation changes in human placenta. <i>Environment International</i> , <b>2014</b> , 71, 81-7	12.9	41
66	2'-Deoxy-N4-[2-(4-nitrophenyl)ethoxycarbonyl]-5-azacytidine: a novel inhibitor of DNA methyltransferase that requires activation by human carboxylesterase 1. <i>Cancer Letters</i> , <b>2008</b> , 266, 238-48	8.9	41
65	Placental mitochondrial DNA and CYP1A1 gene methylation as molecular signatures for tobacco smoke exposure in pregnant women and the relevance for birth weight. <i>Journal of Translational Medicine</i> , <b>2017</b> , 15, 5	8.5	39
64	Exposure to environmental toxicants reduces global N6-methyladenosine RNA methylation and alters expression of RNA methylation modulator genes. <i>Environmental Research</i> , <b>2019</b> , 175, 228-234	7.9	39
63	Epigenetic effects of low perinatal doses of flame retardant BDE-47 on mitochondrial and nuclear genes in rat offspring. <i>Toxicology</i> , <b>2015</b> , 328, 152-9	4.4	39

62	Rapid and quantitative method of allele-specific DNA methylation analysis. <i>BioTechniques</i> , <b>2006</b> , 41, 734-735	3.5	39
61	Temporal stability of epigenetic markers: sequence characteristics and predictors of short-term DNA methylation variations. <i>PLoS ONE</i> , <b>2012</b> , 7, e39220	3.7	39
60	Altered methylation in tandem repeat element and elemental component levels in inhalable air particles. <i>Environmental and Molecular Mutagenesis</i> , <b>2014</b> , 55, 256-65	3.2	38
59	Changes in DNA Methylation in Mouse Lungs after a Single Intra-Tracheal Administration of Nanomaterials. <i>PLoS ONE</i> , <b>2017</b> , 12, e0169886	3.7	38
58	Dietary Intervention Modifies DNA Methylation Age Assessed by the Epigenetic Clock. <i>Molecular Nutrition and Food Research</i> , <b>2018</b> , 62, e1800092	5.9	37
57	High pesticide exposure events and DNA methylation among pesticide applicators in the agricultural health study. <i>Environmental and Molecular Mutagenesis</i> , <b>2017</b> , 58, 19-29	3.2	36
56	Epigenome-wide DNA methylation changes with development of arsenic-induced skin lesions in Bangladesh: a case-control follow-up study. <i>Environmental and Molecular Mutagenesis</i> , <b>2014</b> , 55, 449-56	3.2	36
55	Cardiac autonomic dysfunction: particulate air pollution effects are modulated by epigenetic immunoregulation of Toll-like receptor 2 and dietary flavonoid intake. <i>Journal of the American Heart Association</i> , <b>2015</b> , 4, e001423	6	35
54	Childhood abuse, promoter methylation of leukocyte NR3C1 and the potential modifying effect of emotional support. <i>Epigenomics</i> , <b>2016</b> , 8, 1507-1517	4.4	35
53	Nutrients intake is associated with DNA methylation of candidate inflammatory genes in a population of obese subjects. <i>Nutrients</i> , <b>2014</b> , 6, 4625-39	6.7	35
52	Global DNA methylation and low-level exposure to benzene. <i>Medicina Del Lavoro</i> , <b>2012</b> , 103, 84-95	1.9	33
51	Increased methylation of repetitive elements and DNA repair genes is associated with higher DNA oxidation in children in an urbanized, industrial environment. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , <b>2017</b> , 813, 27-36	3	32
50	Hydroxycarbamide in combination with azacitidine or decitabine is antagonistic on DNA methylation inhibition. <i>British Journal of Haematology</i> , <b>2007</b> , 138, 616-23	4.5	31
49	Mitochondrial Epigenetics and Environmental Exposure. <i>Current Environmental Health Reports</i> , <b>2016</b> , 3, 214-24	6.5	30
48	Effects of environmental noise exposure on DNA methylation in the brain and metabolic health. <i>Environmental Research</i> , <b>2017</b> , 153, 73-82	7.9	29
47	Storage conditions and stability of global DNA methylation in placental tissue. <i>Epigenomics</i> , <b>2013</b> , 5, 341-8	4.4	29
46	Variation of DNA methylation in candidate age-related targets on the mitochondrial-telomere axis in cord blood and placenta. <i>Placenta</i> , <b>2014</b> , 35, 665-72	3.4	27
45	CYP2E1 epigenetic regulation in chronic, low-level toluene exposure: Relationship with oxidative stress and smoking habit. <i>Toxicology and Applied Pharmacology</i> , <b>2015</b> , 286, 207-15	4.6	26

44	Association between length of gestation and cervical DNA methylation of PTGER2 and LINE 1-HS. <i>Epigenetics</i> , <b>2014</b> , 9, 1083-91	5.7	25
43	Erythrocyte ghost-mediated gene delivery for prolonged and blood-targeted expression. <i>Gene Therapy</i> , <b>2004</b> , 11, 492-6	4	25
42	Enhanced immunogenicity of DNA fusion vaccine encoding secreted hepatitis B surface antigen and chemokine RANTES. <i>Virology</i> , <b>2003</b> , 314, 84-91	3.6	25
41	Heart rate variability and DNA methylation levels are altered after short-term metal fume exposure among occupational welders: a repeated-measures panel study. <i>BMC Public Health</i> , <b>2014</b> , 14, 1279	4.1	24
40	Plasmid vectors harboring cellular promoters can induce prolonged gene expression in hematopoietic and mesenchymal progenitor cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2005</b> , 332, 518-23	3.4	23
39	The effect of morphine upon DNA methylation in ten regions of the rat brain. <i>Epigenetics</i> , <b>2017</b> , 12, 1038-1047	5.0	20
38	Aberrant promoter methylation in genes related to hematopoietic malignancy in workers exposed to a VOC mixture. <i>Toxicology and Applied Pharmacology</i> , <b>2018</b> , 339, 65-72	4.6	20
37	Platelet mitochondrial DNA methylation predicts future cardiovascular outcome in adults with overweight and obesity. <i>Clinical Epigenetics</i> , <b>2020</b> , 12, 29	7.7	18
36	Analysis of pollutant-induced changes in mitochondrial DNA methylation. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1265, 271-83	1.4	16
35	Pesticide use and LINE-1 methylation among male private pesticide applicators in the Agricultural Health Study. <i>Environmental Epigenetics</i> , <b>2017</b> , 3, dvx005	2.4	14
34	Associations of adverse pregnancy outcomes with high ambient air pollution exposure: Results from the Project ELEFANT. <i>Science of the Total Environment</i> , <b>2021</b> , 761, 143218	10.2	14
33	Assessment of Changes in Global DNA Methylation Levels by Pyrosequencing of Repetitive Elements. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1315, 201-7	1.4	13
32	Promoter methylation status in genes related with inflammation, nitrosative stress and xenobiotic metabolism in low-level benzene exposure: Searching for biomarkers of oncogenesis. <i>Food and Chemical Toxicology</i> , <b>2017</b> , 109, 669-676	4.7	13
31	Regulating role of fetal thyroid hormones on placental mitochondrial DNA methylation: epidemiological evidence from the ENVIRAGE birth cohort study. <i>Clinical Epigenetics</i> , <b>2017</b> , 9, 66	7.7	13
30	Mono-allelic retrotransposon insertion addresses epigenetic transcriptional repression in human genome. <i>Journal of Biomedical Science</i> , <b>2012</b> , 19, 13	13.3	12
29	Histone 3 modifications and blood pressure in the Beijing Truck Driver Air Pollution Study. <i>Biomarkers</i> , <b>2017</b> , 22, 584-593	2.6	12
28	A phase I biological study of azacitidine (Vidaza) to determine the optimal dose to inhibit DNA methylation. <i>Epigenetics</i> , <b>2010</b> , 5, 750-7	5.7	11
27	Mitochondrial DNA methylation in placental tissue: a proof of concept study by means of prenatal environmental stressors. <i>Epigenetics</i> , <b>2021</b> , 16, 121-131	5.7	11

26	Obesity as an effect modifier of the association between menstrual abnormalities and hypertension in young adult women: Results from Project ELEFANT. <i>PLoS ONE</i> , <b>2018</b> , 13, e0207929	3.7	10
25	Environmental epitranscriptomics. <i>Environmental Research</i> , <b>2020</b> , 189, 109885	7.9	9
24	Increased BCR promoter DNA methylation status strongly correlates with favorable response to imatinib in chronic myeloid leukemia patients. <i>Oncology Letters</i> , <b>2011</b> , 2, 181-187	2.6	8
23	Age at menarche and prevention of hypertension through lifestyle in young Chinese adult women: result from project ELEFANT. <i>BMC Women's Health</i> , <b>2018</b> , 18, 182	2.9	8
22	Analysis of retrotransposon subfamily DNA methylation reveals novel early epigenetic changes in chronic lymphocytic leukemia. <i>Haematologica</i> , <b>2021</b> , 106, 98-110	6.6	6
21	Psychosocial stress is associated with benign breast disease in young Chinese women: results from Project ELEFANT. <i>Breast Cancer Research and Treatment</i> , <b>2019</b> , 173, 217-224	4.4	6
20	Elevated serum mitochondrial DNA in females and lack of altered platelet mitochondrial methylation in patients with Parkinson's disease. <i>International Journal of Neuroscience</i> , <b>2021</b> , 131, 279-282	2.8	6
19	DNA methylation patterns of LINE-1 and Alu for pre-symptomatic dementia in type 2 diabetes. <i>PLoS ONE</i> , <b>2020</b> , 15, e0234578	3.7	5
18	Impact of Chromosomal Rearrangement upon DNA Methylation Patterns in Leukemia. <i>Open Medicine (Poland)</i> , <b>2017</b> , 12, 76-85	2.2	5
17	Single nucleotide polymorphisms on DNA methylation microarrays: precautions against confounding. <i>Epigenomics</i> , <b>2014</b> , 6, 577-9	4.4	5
16	Occupational noise exposure is associated with hypertension in China: Results from project ELEFANT. <i>PLoS ONE</i> , <b>2018</b> , 13, e0209041	3.7	5
15	Mitochondrial DNA methylation is associated with Mediterranean diet adherence in a population of older adults with overweight and obesity.. <i>Proceedings of the Nutrition Society</i> , <b>2020</b> , 79,	2.9	4
14	Abstract LB-173: Genome-scale analysis of aberrant DNA methylation in colorectal cancer <b>2011</b> ,		4
13	Prenatal PM exposure and the risk of adverse births outcomes: Results from Project ELEFANT. <i>Environmental Research</i> , <b>2020</b> , 191, 110232	7.9	4
12	0288 Gene-specific DNA methylation as a valuable tool for risk assessment: the case of occupational exposure to different VOCs in Mexican workers0288 Gene-specific DNA methylation as a valuable tool for risk assessment: the case of occupational exposure to different VOCs in Mexican workers. <i>Occupational and Environmental Medicine</i> , <b>2014</b> , 71, A36.2-A36	2.1	2
11	DNA Methylation profiling of chronic myelogenous leukemia in relationship to genomic translocation <b>2013</b> , 1, 1-9		2
10	The exposure levels and health risk assessment of antibiotics in urine and its association with platelet mitochondrial DNA methylation in adults from Tianjin, China: A preliminary study.. <i>Ecotoxicology and Environmental Safety</i> , <b>2022</b> , 231, 113204	7	1
9	Hydroxyurea with Azacitidine or Decitabine in Combination Is Antagonistic on DNA Methylation Inhibition.. <i>Blood</i> , <b>2006</b> , 108, 4303-4303	2.2	1

8	Genome-Wide DNA Methylation Analysis of Patients with Myelodysplastic Syndrome After Azacitidine Treatment.. <i>Blood</i> , <b>2009</b> , 114, 600-600	2.2	1
7	Platelet mitochondrial DNA methylation: Markers of cardiovascular disease predisposition in overweight and obese individuals. <i>Nutrition Bulletin</i> , <b>2019</b> , 44, 160-164	3.5	0
6	Methylation Profiling of Three Homogenous Cancers: Chronic Myelogenous Leukemia (CML), Acute Promyelocytic Leukemia (APL) and Gastrointestinal Stromal Tumors (GIST).. <i>Blood</i> , <b>2006</b> , 108, 736-736	2.2	
5	Changes in DNA Methylation of Repetitive Elements during the Progression of Chronic Myelogenous Leukemia.. <i>Blood</i> , <b>2006</b> , 108, 4302-4302	2.2	
4	Molecular Predictive Markers in Dose Escalation Treatment for Suboptimal Responders to Standard Dose Imatinib in CML. <i>Blood</i> , <b>2008</b> , 112, 3221-3221	2.2	
3	A Phase I Biological Study of Azacitidine (Vidaza) to Determine the Optimal Biological Dose and Route of Administration.. <i>Blood</i> , <b>2009</b> , 114, 1753-1753	2.2	
2	Nutrition, Epigenetics and Aging <b>2016</b> , 103-131		
1	Cloning of ribosomal protein S6 kinase cDNA and its involvement in meiotic maturation in <i>Rana dybowskii</i> oocytes. <i>Molecules and Cells</i> , <b>2002</b> , 14, 16-23	3.5	