

# Moshe Szyf

## List of Publications by Citations

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281  
papers

29,788  
citations

82  
h-index

168  
g-index

299  
ext. papers

33,018  
ext. citations

6.2  
avg, IF

7.41  
L-index

#	Paper	IF	Citations
281	Epigenetic programming by maternal behavior. <i>Nature Neuroscience</i> , <b>2004</b> , 7, 847-54	25.5	4751
280	Epigenetic regulation of the glucocorticoid receptor in human brain associates with childhood abuse. <i>Nature Neuroscience</i> , <b>2009</b> , 12, 342-8	25.5	2557
279	Reversal of maternal programming of stress responses in adult offspring through methyl supplementation: altering epigenetic marking later in life. <i>Journal of Neuroscience</i> , <b>2005</b> , 25, 11045-54	6.6	738
278	Maternal care effects on the hippocampal transcriptome and anxiety-mediated behaviors in the offspring that are reversible in adulthood. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 3480-5	11.5	641
277	Environmental programming of stress responses through DNA methylation: life at the interface between a dynamic environment and a fixed genome. <i>Dialogues in Clinical Neuroscience</i> , <b>2005</b> , 7, 103-23	5.7	597
276	Alzheimer's disease: early alterations in brain DNA methylation at ANK1, BIN1, RHBDF2 and other loci. <i>Nature Neuroscience</i> , <b>2014</b> , 17, 1156-63	25.5	579
275	Maternal care associated with methylation of the estrogen receptor-alpha1b promoter and estrogen receptor-alpha expression in the medial preoptic area of female offspring. <i>Endocrinology</i> , <b>2006</b> , 147, 2909-15	4.8	568
274	A mammalian protein with specific demethylase activity for mCpG DNA. <i>Nature</i> , <b>1999</b> , 397, 579-83	50.4	554
273	Maternal care as a model for experience-dependent chromatin plasticity?. <i>Trends in Neurosciences</i> , <b>2005</b> , 28, 456-63	13.3	493
272	The transcription factor nerve growth factor-inducible protein a mediates epigenetic programming: altering epigenetic marks by immediate-early genes. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 1756-68	6.6	415
271	Broad epigenetic signature of maternal care in the brain of adult rats. <i>PLoS ONE</i> , <b>2011</b> , 6, e14739	3.7	362
270	Genome-wide epigenetic regulation by early-life trauma. <i>Archives of General Psychiatry</i> , <b>2012</b> , 69, 722-31		352
269	The social environment and the epigenome. <i>Environmental and Molecular Mutagenesis</i> , <b>2008</b> , 49, 46-60	3.2	350
268	Associations with early-life socio-economic position in adult DNA methylation. <i>International Journal of Epidemiology</i> , <b>2012</b> , 41, 62-74	7.8	318
267	Epigenetics, DNA methylation, and chromatin modifying drugs. <i>Annual Review of Pharmacology and Toxicology</i> , <b>2009</b> , 49, 243-63	17.9	305
266	Promoter-wide hypermethylation of the ribosomal RNA gene promoter in the suicide brain. <i>PLoS ONE</i> , <b>2008</b> , 3, e2085	3.7	294
265	The signature of maternal rearing in the methylome in rhesus macaque prefrontal cortex and T cells. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 15626-42	6.6	292

264	Maternal programming of steroid receptor expression and phenotype through DNA methylation in the rat. <i>Frontiers in Neuroendocrinology</i> , <b>2005</b> , 26, 139-62	8.9	278
263	Differential glucocorticoid receptor exon 1(B), 1(C), and 1(H) expression and methylation in suicide completers with a history of childhood abuse. <i>Biological Psychiatry</i> , <b>2012</b> , 72, 41-8	7.9	269
262	DNA methylation patterns. Formation and function. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , <b>1984</b> , 782, 331-42		263
261	Epigenetic programming of stress responses through variations in maternal care. <i>Annals of the New York Academy of Sciences</i> , <b>2004</b> , 1036, 167-80	6.5	259
260	Valproate induces replication-independent active DNA demethylation. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 27586-92	5.4	259
259	Early environmental regulation of hippocampal glucocorticoid receptor gene expression: characterization of intracellular mediators and potential genomic target sites. <i>Annals of the New York Academy of Sciences</i> , <b>2004</b> , 1024, 182-212	6.5	253
258	GABAA receptor promoter hypermethylation in suicide brain: implications for the involvement of epigenetic processes. <i>Biological Psychiatry</i> , <b>2008</b> , 64, 645-652	7.9	246
257	Conserved epigenetic sensitivity to early life experience in the rat and human hippocampus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109 Suppl 2, 17266-72	11.5	242
256	Demethylase activity is directed by histone acetylation. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 40778-87	5.87	239
255	Maternal care, the epigenome and phenotypic differences in behavior. <i>Reproductive Toxicology</i> , <b>2007</b> , 24, 9-19	3.4	219
254	Differential patterns of whole-genome DNA methylation in institutionalized children and children raised by their biological parents. <i>Development and Psychopathology</i> , <b>2012</b> , 24, 143-55	4.3	211
253	The epigenetics of social adversity in early life: implications for mental health outcomes. <i>Neurobiology of Disease</i> , <b>2010</b> , 39, 66-72	7.5	209
252	Valproate induces widespread epigenetic reprogramming which involves demethylation of specific genes. <i>Carcinogenesis</i> , <b>2007</b> , 28, 560-71	4.6	205
251	DNA methylation signatures triggered by prenatal maternal stress exposure to a natural disaster: Project Ice Storm. <i>PLoS ONE</i> , <b>2014</b> , 9, e107653	3.7	193
250	Diet and the epigenetic (re)programming of phenotypic differences in behavior. <i>Brain Research</i> , <b>2008</b> , 1237, 12-24	3.7	180
249	Alternative splicing, methylation state, and expression profile of tropomyosin-related kinase B in the frontal cortex of suicide completers. <i>Archives of General Psychiatry</i> , <b>2009</b> , 66, 22-32		179
248	The early life environment and the epigenome. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2009</b> , 1790, 878-85	4	172
247	Quantum dot-induced epigenetic and genotoxic changes in human breast cancer cells. <i>Journal of Molecular Medicine</i> , <b>2008</b> , 86, 291-302	5.5	169

246	DNA methylation: a mechanism for embedding early life experiences in the genome. <i>Child Development</i> , <b>2013</b> , 84, 49-57	4.9	167
245	Nongenetic inheritance and transgenerational epigenetics. <i>Trends in Molecular Medicine</i> , <b>2015</b> , 21, 134-44	4.5	163
244	The dynamic epigenome and its implications in toxicology. <i>Toxicological Sciences</i> , <b>2007</b> , 100, 7-23	4.4	163
243	Regulation of DNA methylation by the Ras signaling pathway. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 11327-37	5.4	159
242	DNA methylation and breast cancer. <i>Biochemical Pharmacology</i> , <b>2004</b> , 68, 1187-97	6	157
241	Epigenetic side-effects of common pharmaceuticals: a potential new field in medicine and pharmacology. <i>Medical Hypotheses</i> , <b>2009</b> , 73, 770-80	3.8	155
240	Reversal of the hypomethylation status of urokinase (uPA) promoter blocks breast cancer growth and metastasis. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 31735-44	5.4	151
239	Peripheral SLC6A4 DNA methylation is associated with in vivo measures of human brain serotonin synthesis and childhood physical aggression. <i>PLoS ONE</i> , <b>2012</b> , 7, e39501	3.7	148
238	Definition of the landscape of promoter DNA hypomethylation in liver cancer. <i>Cancer Research</i> , <b>2011</b> , 71, 5891-903	10.1	148
237	The oncoprotein Set/TAF-1beta, an inhibitor of histone acetyltransferase, inhibits active demethylation of DNA, integrating DNA methylation and transcriptional silencing. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 25026-31	5.4	147
236	Histone deacetylase inhibitor Trichostatin A induces global and gene-specific DNA demethylation in human cancer cell lines. <i>Biochemical Pharmacology</i> , <b>2007</b> , 73, 1297-307	6	144
235	Genome-wide methylation changes in the brains of suicide completers. <i>American Journal of Psychiatry</i> , <b>2013</b> , 170, 511-20	11.9	142
234	A novel transgenic rat model with a full Alzheimer $\beta$ -like amyloid pathology displays pre-plaque intracellular amyloid-beta-associated cognitive impairment. <i>Journal of Alzheimer's Disease</i> , <b>2010</b> , 20, 113-26	4.3	142
233	Promoter-specific activation and demethylation by MBD2/demethylase. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 35791-4	5.4	142
232	The methyl donor S-Adenosylmethionine inhibits active demethylation of DNA: a candidate novel mechanism for the pharmacological effects of S-Adenosylmethionine. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 20812-20	5.4	137
231	Expression of antisense to DNA methyltransferase mRNA induces DNA demethylation and inhibits tumorigenesis. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 8037-43	5.4	130
230	Alteration of the methylation status of tumor-promoting genes decreases prostate cancer cell invasiveness and tumorigenesis in vitro and in vivo. <i>Cancer Research</i> , <b>2006</b> , 66, 9202-10	10.1	128
229	Methylation pattern of mouse mitochondrial DNA. <i>Nucleic Acids Research</i> , <b>1984</b> , 12, 4811-24	20.1	127

228	Childhood abuse is associated with methylation of multiple loci in adult DNA. <i>BMC Medical Genomics</i> , <b>2014</b> , 7, 13	3.7	125
227	The early life social environment and DNA methylation: DNA methylation mediating the long-term impact of social environments early in life. <i>Epigenetics</i> , <b>2011</b> , 6, 971-8	5.7	124
226	Prenatal synthetic glucocorticoid treatment changes DNA methylation states in male organ systems: multigenerational effects. <i>Endocrinology</i> , <b>2012</b> , 153, 3269-83	4.8	120
225	Interleukin-6 regulation of the human DNA methyltransferase (HDNMT) gene in human erythroleukemia cells. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 39508-11	5.4	119
224	Maternal programming of defensive responses through sustained effects on gene expression. <i>Biological Psychology</i> , <b>2006</b> , 73, 72-89	3.2	116
223	Epigenetic tie-tie: the bilateral relationship between chromatin modifications and DNA methylation. <i>Biochemistry and Cell Biology</i> , <b>2006</b> , 84, 463-76	3.6	116
222	Regulation of the DNA methyltransferase by the Ras-AP-1 signaling pathway. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 1595-601	5.4	113
221	DNA methylation of the serotonin transporter gene in peripheral cells and stress-related changes in hippocampal volume: a study in depressed patients and healthy controls. <i>PLoS ONE</i> , <b>2015</b> , 10, e0119067	3.7	110
220	Transcriptional regulation of the human DNA Methyltransferase (dnmt1) gene. <i>Gene</i> , <b>2000</b> , 242, 407-18	3.8	109
219	DNA methylation, behavior and early life adversity. <i>Journal of Genetics and Genomics</i> , <b>2013</b> , 40, 331-8	4	102
218	Role of DNA methylation in the nucleus accumbens in incubation of cocaine craving. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 8042-58	6.6	102
217	DNA methylation properties: consequences for pharmacology. <i>Trends in Pharmacological Sciences</i> , <b>1994</b> , 15, 233-8	13.2	99
216	Peripheral nerve injury is associated with chronic, reversible changes in global DNA methylation in the mouse prefrontal cortex. <i>PLoS ONE</i> , <b>2013</b> , 8, e55259	3.7	97
215	DNA demethylation and cancer: therapeutic implications. <i>Cancer Letters</i> , <b>2004</b> , 211, 133-43	9.9	96
214	DNA methyltransferase inhibition induces the transcription of the tumor suppressor p21(WAF1/CIP1/sdi1). <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 6353-9	5.4	95
213	Epigenomic stress response. Knockdown of DNA methyltransferase 1 triggers an intra-S-phase arrest of DNA replication and induction of stress response genes. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 14985-95	5.4	94
212	Inflammation-driven reprogramming of CD4+ Foxp3+ regulatory T cells into pathogenic Th1/Th17 T effectors is abrogated by mTOR inhibition in vivo. <i>PLoS ONE</i> , <b>2012</b> , 7, e35572	3.7	92
211	Effects of specific DNMT gene depletion on cancer cell transformation and breast cancer cell invasion; toward selective DNMT inhibitors. <i>Carcinogenesis</i> , <b>2011</b> , 32, 224-32	4.6	91

210	Early environmental regulation of hippocampal glucocorticoid receptor gene expression: characterization of intracellular mediators and potential genomic target sites. <i>Molecular and Cellular Endocrinology</i> , <b>2001</b> , 185, 205-18	4.4	91
209	Regulation of DNA methylation in human breast cancer. Effect on the urokinase-type plasminogen activator gene production and tumor invasion. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 41571-9	5.4	90
208	Towards a pharmacology of DNA methylation. <i>Trends in Pharmacological Sciences</i> , <b>2001</b> , 22, 350-4	13.2	90
207	DNA methylation signatures for breast cancer classification and prognosis. <i>Genome Medicine</i> , <b>2012</b> , 4, 26	14.4	86
206	Pharmacological inhibition of DNA methylation induces proinvasive and prometastatic genes in vitro and in vivo. <i>Neoplasia</i> , <b>2008</b> , 10, 266-78	6.4	86
205	Genome-wide DNA Methylation Changes in a Mouse Model of Infection-Mediated Neurodevelopmental Disorders. <i>Biological Psychiatry</i> , <b>2017</b> , 81, 265-276	7.9	85
204	DNA methylation differences at the glucocorticoid receptor gene in depression are related to functional alterations in hypothalamic-pituitary-adrenal axis activity and to early life emotional abuse. <i>Psychiatry Research</i> , <b>2018</b> , 265, 341-348	9.9	85
203	Proliferating cell nuclear antigen associates with histone deacetylase activity, integrating DNA replication and chromatin modification. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 20974-8	5.4	84
202	DNA methylation of SPARC and chronic low back pain. <i>Molecular Pain</i> , <b>2011</b> , 7, 65	3.4	83
201	Prenatal stress and epigenetics. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2020</b> , 117, 198-210	9	83
200	From maternal care to gene expression: DNA methylation and the maternal programming of stress responses. <i>Endocrine Research</i> , <b>2002</b> , 28, 699	1.9	82
199	Report of the National Heart, Lung, and Blood Institute Working Group on epigenetics and hypertension. <i>Hypertension</i> , <b>2012</b> , 59, 899-905	8.5	81
198	DNA methylation and demethylation as targets for anticancer therapy. <i>Biochemistry (Moscow)</i> , <b>2005</b> , 70, 533-49	2.9	81
197	DNA methyltransferase 1 knock down induces gene expression by a mechanism independent of DNA methylation and histone deacetylation. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 27915-27	5.4	80
196	Genetic and early environmental influences on the serotonin system: consequences for brain development and risk for psychopathology. <i>Journal of Psychiatry and Neuroscience</i> , <b>2015</b> , 40, 5-18	4.5	79
195	Prenatal Glucocorticoid Exposure Modifies Endocrine Function and Behaviour for 3 Generations Following Maternal and Paternal Transmission. <i>Scientific Reports</i> , <b>2017</b> , 7, 11814	4.9	79
194	Epigenetic Programming of the rRNA Promoter by MBD3. <i>Molecular and Cellular Biology</i> , <b>2008</b> , 28, 1195-1195	4.895	78
193	Acetylation-induced transcription is required for active DNA demethylation in methylation-silenced genes. <i>Molecular and Cellular Biology</i> , <b>2007</b> , 27, 7462-74	4.8	78

192	Targeting DNA methylation in cancer. <i>Ageing Research Reviews</i> , <b>2003</b> , 2, 299-328	12	78
191	Glucocorticoid programming of the fetal male hippocampal epigenome. <i>Endocrinology</i> , <b>2013</b> , 154, 1168-1178	4.8	77
190	Looking beyond the DNA sequence: the relevance of DNA methylation processes for the stress-diathesis model of depression. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2013</b> , 368, 20120251	5.8	77
189	DNA methylation mediates the impact of exposure to prenatal maternal stress on BMI and central adiposity in children at age 13 years: Project Ice Storm. <i>Epigenetics</i> , <b>2015</b> , 10, 749-61	5.7	76
188	DNA methyltransferase is a downstream effector of cellular transformation triggered by simian virus 40 large T antigen. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 10105-12	5.4	75
187	Epigenetic Changes of FKBP5 as a Link Connecting Genetic and Environmental Risk Factors with Structural and Functional Brain Changes in Major Depression. <i>Neuropsychopharmacology</i> , <b>2018</b> , 43, 1138-1145	8.7	75
186	Epigenetic variation in the Egrf gene generates quantitative variation in a complex trait in ants. <i>Nature Communications</i> , <b>2015</b> , 6, 6513	17.4	73
185	DNA methylation signature of childhood chronic physical aggression in T cells of both men and women. <i>PLoS ONE</i> , <b>2014</b> , 9, e86822	3.7	71
184	Concurrent replication and methylation at mammalian origins of replication. <i>Molecular and Cellular Biology</i> , <b>1998</b> , 18, 3475-82	4.8	70
183	The DNA methylation machinery as a target for anticancer therapy <b>1996</b> , 70, 1-37		70
182	Epigenetic programming of the rRNA promoter by MBD3. <i>Molecular and Cellular Biology</i> , <b>2007</b> , 27, 4938-48	5.8	68
181	Association of childhood chronic physical aggression with a DNA methylation signature in adult human T cells. <i>PLoS ONE</i> , <b>2014</b> , 9, e89839	3.7	67
180	Prospects for the development of epigenetic drugs for CNS conditions. <i>Nature Reviews Drug Discovery</i> , <b>2015</b> , 14, 461-74	64.1	65
179	Regional-specific global cytosine methylation and DNA methyltransferase expression in the adult rat hippocampus. <i>Neuroscience Letters</i> , <b>2008</b> , 440, 49-53	3.3	65
178	DNA methyltransferase 1 knockdown activates a replication stress checkpoint. <i>Molecular and Cellular Biology</i> , <b>2006</b> , 26, 7575-86	4.8	65
177	Rat transgenic models with a phenotype of intracellular Abeta accumulation in hippocampus and cortex. <i>Journal of Alzheimer's Disease</i> , <b>2004</b> , 6, 209-19	4.3	65
176	Genome-wide study of hypomethylated and induced genes in patients with liver cancer unravels novel anticancer targets. <i>Clinical Cancer Research</i> , <b>2014</b> , 20, 3118-32	12.9	62
175	Peripheral nerve injury is accompanied by chronic transcriptome-wide changes in the mouse prefrontal cortex. <i>Molecular Pain</i> , <b>2013</b> , 9, 21	3.4	62

174	The implications of DNA methylation for toxicology: toward toxicomethylomics, the toxicology of DNA methylation. <i>Toxicological Sciences</i> , <b>2011</b> , 120, 235-55	4.4	61
173	Inhibition of DNA methyltransferase inhibits DNA replication. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 17986-90	5.4	61
172	The effects of pH on DNA methylation state: In vitro and post-mortem brain studies. <i>Journal of Neuroscience Methods</i> , <b>2008</b> , 174, 123-5	3	60
171	Variations in DNA methylation patterns during the cell cycle of HeLa cells. <i>Epigenetics</i> , <b>2007</b> , 2, 54-65	5.7	57
170	DNA methylation of the serotonin transporter gene (SLC6A4) is associated with brain function involved in processing emotional stimuli. <i>Journal of Psychiatry and Neuroscience</i> , <b>2015</b> , 40, 296-305	4.5	56
169	Methylated DNA-binding protein 2 antisense inhibitors suppress tumorigenesis of human cancer cell lines in vitro and in vivo. <i>Carcinogenesis</i> , <b>2004</b> , 25, 499-507	4.6	55
168	DNA methylation and cancer therapy. <i>Drug Resistance Updates</i> , <b>2003</b> , 6, 341-53	23.2	55
167	Effects of antenatal synthetic glucocorticoid on glucocorticoid receptor binding, DNA methylation, and genome-wide mRNA levels in the fetal male hippocampus. <i>Endocrinology</i> , <b>2013</b> , 154, 4170-81	4.8	54
166	On the mechanism of demethylation of 5-methylcytosine in DNA. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2008</b> , 18, 1046-9	2.9	54
165	Overlapping signatures of chronic pain in the DNA methylation landscape of prefrontal cortex and peripheral T cells. <i>Scientific Reports</i> , <b>2016</b> , 6, 19615	4.9	54
164	Antisense MBD2 gene therapy inhibits tumorigenesis. <i>Journal of Gene Medicine</i> , <b>2002</b> , 4, 381-9	3.5	53
163	cis modification of the steroid 21-hydroxylase gene prevents its expression in the Y1 mouse adrenocortical tumor cell line. <i>Molecular Endocrinology</i> , <b>1990</b> , 4, 1144-52		53
162	Differential DNA methylation regions in cytokine and transcription factor genomic loci associate with childhood physical aggression. <i>PLoS ONE</i> , <b>2013</b> , 8, e71691	3.7	52
161	Light at night and melatonin have opposite effects on breast cancer tumors in mice assessed by growth rates and global DNA methylation. <i>Chronobiology International</i> , <b>2014</b> , 31, 144-50	3.6	50
160	Genome-wide DNA methylation variability in adolescent monozygotic twins followed since birth. <i>Epigenetics</i> , <b>2014</b> , 9, 1410-21	5.7	50
159	Adult glucocorticoid exposure leads to transcriptional and DNA methylation changes in nuclear steroid receptors in the hippocampus and kidney of mouse male offspring. <i>Biology of Reproduction</i> , <b>2014</b> , 90, 43	3.9	49
158	How do environments talk to genes?. <i>Nature Neuroscience</i> , <b>2013</b> , 16, 2-4	25.5	48
157	Synergistic anti-breast cancer effect of a combined treatment with the methyl donor S-adenosyl methionine and the DNA methylation inhibitor 5-aza-2Pdeoxycytidine. <i>Carcinogenesis</i> , <b>2014</b> , 35, 138-44	4.6	47



156	Hydroxymethylation and DNA methylation profiles in the prefrontal cortex of the non-human primate rhesus macaque and the impact of maternal deprivation on hydroxymethylation. <i>Neuroscience</i> , <b>2014</b> , 268, 139-48	3.9	46
155	Abeta immunoreactive material is present in several intracellular compartments in transfected, neuronally differentiated, P19 cells expressing the human amyloid beta-protein precursor. <i>Journal of Alzheimer's Disease</i> , <b>2000</b> , 2, 207-22	4.3	46
154	DNA methylation patterns: an additional level of information?. <i>Biochemistry and Cell Biology</i> , <b>1991</b> , 69, 764-7	3.6	46
153	The dynamic epigenome and its implications for behavioral interventions: a role for epigenetics to inform disorder prevention and health promotion. <i>Translational Behavioral Medicine</i> , <b>2016</b> , 6, 55-62	3.2	45
152	DNA demethylation and invasive cancer: implications for therapeutics. <i>British Journal of Pharmacology</i> , <b>2015</b> , 172, 2705-15	8.6	44
151	The methylated-DNA binding protein MBD2 enhances NGFI-A (egr-1)-mediated transcriptional activation of the glucocorticoid receptor. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2014</b> , 369,	5.8	44
150	Feedback regulation of DNA methyltransferase gene expression by methylation. <i>FEBS Journal</i> , <b>1999</b> , 264, 191-9		44
149	Ras induces a general DNA demethylation activity in mouse embryonal P19 cells. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 12690-6	5.4	44
148	The dynamic nature of DNA methylation: a role in response to social and seasonal variation. <i>Integrative and Comparative Biology</i> , <b>2014</b> , 54, 68-76	2.8	43
147	DNA methylation in individuals with anorexia nervosa and in matched normal-eater controls: A genome-wide study. <i>International Journal of Eating Disorders</i> , <b>2015</b> , 48, 874-82	6.3	43
146	DNA demethylase is a processive enzyme. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 8363-6	5.4	43
145	Dynamic changes in global and gene-specific DNA methylation during hibernation in adult thirteen-lined ground squirrels, <i>Ictidomys tridecemlineatus</i> . <i>Journal of Experimental Biology</i> , <b>2015</b> , 218, 1787-95	3	42
144	Role of epigenetics in cancer initiation and progression. <i>Advances in Experimental Medicine and Biology</i> , <b>2011</b> , 720, 91-104	3.6	42
143	DNA methylation, the early-life social environment and behavioral disorders. <i>Journal of Neurodevelopmental Disorders</i> , <b>2011</b> , 3, 238-49	4.6	42
142	Mitochondrial abnormalities in neuroectodermal cells stably expressing human amyloid precursor protein (hAPP751). <i>NeuroReport</i> , <b>1999</b> , 10, 41-6	1.7	41
141	DNA methylation mediates the effect of exposure to prenatal maternal stress on cytokine production in children at age 13 years: Project Ice Storm. <i>Clinical Epigenetics</i> , <b>2016</b> , 8, 54	7.7	41
140	Human DNA methyltransferase gene DNMT1 is regulated by the APC pathway. <i>Carcinogenesis</i> , <b>2003</b> , 24, 17-24	4.6	40
139	The DNMT1 target recognition domain resides in the N terminus. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 6930-6	5.4	40

138	Epigenetics, a key for unlocking complex CNS disorders? Therapeutic implications. <i>European Neuropsychopharmacology</i> , <b>2015</b> , 25, 682-702	1.2	39
137	The emerging field of pain epigenetics. <i>Pain</i> , <b>2013</b> , 154, 1-2	8	39
136	DNA methylation mediates persistent epileptiform activity in vitro and in vivo. <i>PLoS ONE</i> , <b>2013</b> , 8, e76299	9.7	38
135	AUF1 cell cycle variations define genomic DNA methylation by regulation of DNMT1 mRNA stability. <i>Molecular and Cellular Biology</i> , <b>2007</b> , 27, 395-410	4.8	38
134	Early life, the epigenome and human health. <i>Acta Paediatrica, International Journal of Paediatrics</i> , <b>2009</b> , 98, 1082-4	3.1	37
133	The role of DNA hypermethylation and demethylation in cancer and cancer therapy. <i>Current Oncology</i> , <b>2008</b> , 15, 72-5	2.8	37
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