

Mario F Fraga

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.

250
papers

28,624
citations

81
h-index

166
g-index

269
ext. papers

31,854
ext. citations

8.9
avg, IF

6.72
L-index

#	Paper	IF	Citations
250	Epigenetic differences arise during the lifetime of monozygotic twins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 10604-9	11.5	2645
249	The Polycomb group protein EZH2 directly controls DNA methylation. <i>Nature</i> , 2006 , 439, 871-4	50.4	1721
248	Glypican-1 identifies cancer exosomes and detects early pancreatic cancer. <i>Nature</i> , 2015 , 523, 177-82	50.4	1678
247	Loss of acetylation at Lys16 and trimethylation at Lys20 of histone H4 is a common hallmark of human cancer. <i>Nature Genetics</i> , 2005 , 37, 391-400	36.3	1492
246	Epigenetics and the environment: emerging patterns and implications. <i>Nature Reviews Genetics</i> , 2012 , 13, 97-109	30.1	1233
245	The transcription factor Slug represses E-cadherin expression and induces epithelial to mesenchymal transitions: a comparison with Snail and E47 repressors. <i>Journal of Cell Science</i> , 2003 , 116, 499-511	5.3	912
244	Genetic unmasking of an epigenetically silenced microRNA in human cancer cells. <i>Cancer Research</i> , 2007 , 67, 1424-9	10.1	795
243	Distinct DNA methylomes of newborns and centenarians. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 10522-7	11.5	563
242	Epigenetics and aging: the targets and the marks. <i>Trends in Genetics</i> , 2007 , 23, 413-8	8.5	518
241	Changes in the pattern of DNA methylation associate with twin discordance in systemic lupus erythematosus. <i>Genome Research</i> , 2010 , 20, 170-9	9.7	486
240	DNA methyltransferases control telomere length and telomere recombination in mammalian cells. <i>Nature Cell Biology</i> , 2006 , 8, 416-24	23.4	471
239	Child health, developmental plasticity, and epigenetic programming. <i>Endocrine Reviews</i> , 2011 , 32, 159-224	24.2	436
238	DNA methylation patterns in hereditary human cancers mimic sporadic tumorigenesis. <i>Human Molecular Genetics</i> , 2001 , 10, 3001-7	5.6	328
237	DNA methylation: a profile of methods and applications. <i>BioTechniques</i> , 2002 , 33, 632, 634, 636-49	2.5	312
236	A role for RNAi in the selective correction of DNA methylation defects. <i>Science</i> , 2009 , 323, 1600-4	33.3	302
235	Epigenetic inactivation of the Wnt antagonist DICKKOPF-1 (DKK-1) gene in human colorectal cancer. <i>Oncogene</i> , 2006 , 25, 4116-21	9.2	294
234	Role of the RB1 family in stabilizing histone methylation at constitutive heterochromatin. <i>Nature Cell Biology</i> , 2005 , 7, 420-8	23.4	279

233	A DNA methylation fingerprint of 1628 human samples. <i>Genome Research</i> , 2012 , 22, 407-19	9.7	273
232	The role of epigenetics in aging and age-related diseases. <i>Ageing Research Reviews</i> , 2009 , 8, 268-76	12	270
231	Methyl-CpG binding proteins identify novel sites of epigenetic inactivation in human cancer. <i>EMBO Journal</i> , 2003 , 22, 6335-45	13	255
230	Chromosomal instability correlates with genome-wide DNA demethylation in human primary colorectal cancers. <i>Cancer Research</i> , 2006 , 66, 8462-9468	10.1	250
229	A systematic profile of DNA methylation in human cancer cell lines. <i>Cancer Research</i> , 2003 , 63, 1114-21	10.1	248
228	DNA methylation polymorphisms precede any histological sign of atherosclerosis in mice lacking apolipoprotein E. <i>Journal of Biological Chemistry</i> , 2004 , 279, 29147-54	5.4	233
227	A truncating mutation of HDAC2 in human cancers confers resistance to histone deacetylase inhibition. <i>Nature Genetics</i> , 2006 , 38, 566-9	36.3	228
226	Salermide, a Sirtuin inhibitor with a strong cancer-specific proapoptotic effect. <i>Oncogene</i> , 2009 , 28, 781-91	9.1	221
225	Loss of the glycine N-methyltransferase gene leads to steatosis and hepatocellular carcinoma in mice. <i>Hepatology</i> , 2008 , 47, 1191-9	11.2	220
224	Epigenetic regulation of adaptive responses of forest tree species to the environment. <i>Ecology and Evolution</i> , 2013 , 3, 399-415	2.8	217
223	Epigenetic inactivation of the premature aging Werner syndrome gene in human cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 8822-7	11.5	213
222	Procaine is a DNA-demethylating agent with growth-inhibitory effects in human cancer cells. <i>Cancer Research</i> , 2003 , 63, 4984-9	10.1	211
221	Quantitative comparison of DNA methylation assays for biomarker development and clinical applications. <i>Nature Biotechnology</i> , 2016 , 34, 726-37	44.5	204
220	The dynamic DNA methylomes of double-stranded DNA viruses associated with human cancer. <i>Genome Research</i> , 2009 , 19, 438-51	9.7	201
219	Genomic DNA hypomethylation as a biomarker for bladder cancer susceptibility in the Spanish Bladder Cancer Study: a case-control study. <i>Lancet Oncology</i> , 2008 , 9, 359-66	21.7	193
218	Evolutionary routes and KRAS dosage define pancreatic cancer phenotypes. <i>Nature</i> , 2018 , 554, 62-68	50.4	192
217	Cross-talk between aging and cancer: the epigenetic language. <i>Annals of the New York Academy of Sciences</i> , 2007 , 1100, 60-74	6.5	189
216	The affinity of different MBD proteins for a specific methylated locus depends on their intrinsic binding properties. <i>Nucleic Acids Research</i> , 2003 , 31, 1765-74	20.1	184

215	A mouse skin multistage carcinogenesis model reflects the aberrant DNA methylation patterns of human tumors. <i>Cancer Research</i> , 2004 , 64, 5527-34	10.1	180
214	Epigenetic inactivation of the Sotos overgrowth syndrome gene histone methyltransferase NSD1 in human neuroblastoma and glioma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 21830-5	11.5	162
213	Research resource: Transcriptional profiling reveals different pseudohypoxic signatures in SDHB and VHL-related pheochromocytomas. <i>Molecular Endocrinology</i> , 2010 , 24, 2382-91		155
212	The epigenetic basis of twin discordance in age-related diseases. <i>Pediatric Research</i> , 2007 , 61, 38R-42R	3.2	155
211	Effects of short-term high-fat overfeeding on genome-wide DNA methylation in the skeletal muscle of healthy young men. <i>Diabetologia</i> , 2012 , 55, 3341-9	10.3	154
210	Epigenetics and environment: a complex relationship. <i>Journal of Applied Physiology</i> , 2010 , 109, 243-51	3.7	150
209	Genome-wide analysis of DNA methylation differences in muscle and fat from monozygotic twins discordant for type 2 diabetes. <i>PLoS ONE</i> , 2012 , 7, e51302	3.7	148
208	Human DNA methyltransferase 1 is required for maintenance of the histone H3 modification pattern. <i>Journal of Biological Chemistry</i> , 2004 , 279, 37175-84	5.4	148
207	A genetic progression model of Braf(V600E)-induced intestinal tumorigenesis reveals targets for therapeutic intervention. <i>Cancer Cell</i> , 2013 , 24, 15-29	24.3	146
206	The Wnt antagonist DICKKOPF-1 gene is induced by 1alpha,25-dihydroxyvitamin D3 associated to the differentiation of human colon cancer cells. <i>Carcinogenesis</i> , 2007 , 28, 1877-84	4.6	145
205	Reconstructing the DNA methylation maps of the Neandertal and the Denisovan. <i>Science</i> , 2014 , 344, 523-7	33.3	142
204	DNA methylation epigenotypes in breast cancer molecular subtypes. <i>Breast Cancer Research</i> , 2010 , 12, R77	8.3	141
203	Towards the human cancer epigenome: a first draft of histone modifications. <i>Cell Cycle</i> , 2005 , 4, 1377-81	4.7	139
202	Sirtuin 1 regulation of developmental genes during differentiation of stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 13736-41	11.5	134
201	High-performance capillary electrophoretic method for the quantification of 5-methyl 2-deoxycytidine in genomic DNA: application to plant, animal and human cancer tissues. <i>Electrophoresis</i> , 2002 , 23, 1677-81	3.6	134
200	EMP3, a myelin-related gene located in the critical 19q13.3 region, is epigenetically silenced and exhibits features of a candidate tumor suppressor in glioma and neuroblastoma. <i>Cancer Research</i> , 2005 , 65, 2565-71	10.1	124
199	New insights into the biology and origin of mature aggressive B-cell lymphomas by combined epigenomic, genomic, and transcriptional profiling. <i>Blood</i> , 2009 , 113, 2488-97	2.2	121
198	Genome-wide analysis of epigenetic silencing identifies BEX1 and BEX2 as candidate tumor suppressor genes in malignant glioma. <i>Cancer Research</i> , 2006 , 66, 6665-74	10.1	120

197	Epigenetic disruption of ribosomal RNA genes and nucleolar architecture in DNA methyltransferase 1 (Dnmt1) deficient cells. <i>Nucleic Acids Research</i> , 2007 , 35, 2191-8	20.1	113
196	Genome-wide profiling of bone reveals differentially methylated regions in osteoporosis and osteoarthritis. <i>Arthritis and Rheumatism</i> , 2013 , 65, 197-205		110
195	Genome-wide DNA methylation changes with age in disease-free human skeletal muscle. <i>Aging Cell</i> , 2014 , 13, 360-6	9.9	110
194	Inactivation of the lamin A/C gene by CpG island promoter hypermethylation in hematologic malignancies, and its association with poor survival in nodal diffuse large B-cell lymphoma. <i>Journal of Clinical Oncology</i> , 2005 , 23, 3940-7	2.2	110
193	Genomic DNA methylation-demethylation during aging and reinvigoration of <i>Pinus radiata</i> . <i>Tree Physiology</i> , 2002 , 22, 813-6	4.2	108
192	Epigenetic prediction of response to anti-PD-1 treatment in non-small-cell lung cancer: a multicentre, retrospective analysis. <i>Lancet Respiratory Medicine</i> , 2018 , 6, 771-781	35.1	107
191	Cancer epigenetics and methylation. <i>Science</i> , 2002 , 297, 1807-8; discussion 1807-8	33.3	107
190	Aberrant DNA methylation patterns of spermatozoa in men with unexplained infertility. <i>Human Reproduction</i> , 2015 , 30, 1014-28	5.7	106
189	A profile of methyl-CpG binding domain protein occupancy of hypermethylated promoter CpG islands of tumor suppressor genes in human cancer. <i>Cancer Research</i> , 2006 , 66, 8342-6	10.1	105
188	DNA methylation map of mouse and human brain identifies target genes in Alzheimer's disease. <i>Brain</i> , 2013 , 136, 3018-27	11.2	104
187	Involvement of DNA methylation in tree development and micropropagation. <i>Plant Cell, Tissue and Organ Culture</i> , 2007 , 91, 75-86	2.7	102
186	Allele-Specific Reprogramming of Cancer Metabolism by the Long Non-coding RNA CCAT2. <i>Molecular Cell</i> , 2016 , 61, 520-534	17.6	101
185	DNA methylation contributes to the regulation of sclerostin expression in human osteocytes. <i>Journal of Bone and Mineral Research</i> , 2012 , 27, 926-37	6.3	100
184	Rapid quantification of DNA methylation by high performance capillary electrophoresis. <i>Electrophoresis</i> , 2000 , 21, 2990-4	3.6	98
183	Multiple markers for melanoma progression regulated by DNA methylation: insights from transcriptomic studies. <i>Carcinogenesis</i> , 2005 , 26, 1856-67	4.6	96
182	DNA methylation biomarkers for noninvasive diagnosis of colorectal cancer. <i>Cancer Prevention Research</i> , 2013 , 6, 656-65	3.2	95
181	Epigenetic regulation of telomeres in human cancer. <i>Oncogene</i> , 2008 , 27, 6817-33	9.2	95
180	Promoter DNA hypermethylation and gene repression in undifferentiated <i>Arabidopsis</i> cells. <i>PLoS ONE</i> , 2008 , 3, e3306	3.7	92

179	Genetic and epigenetic screening for gene alterations of the chromatin-remodeling factor, SMARCA4/BRG1, in lung tumors. <i>Genes Chromosomes and Cancer</i> , 2004 , 41, 170-7	5	92
178	H3K4me1 marks DNA regions hypomethylated during aging in human stem and differentiated cells. <i>Genome Research</i> , 2015 , 25, 27-40	9.7	89
177	DNA methylation signatures identify biologically distinct thyroid cancer subtypes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013 , 98, 2811-21	5.6	88
176	Genetic and epigenetic regulation of aging. <i>Current Opinion in Immunology</i> , 2009 , 21, 446-53	7.8	88
175	Epigenetics in cancer therapy and nanomedicine. <i>Clinical Epigenetics</i> , 2019 , 11, 81	7.7	86
174	A promoter DNA demethylation landscape of human hematopoietic differentiation. <i>Nucleic Acids Research</i> , 2012 , 40, 116-31	20.1	86
173	DNA methylation: a promising landscape for immune system-related diseases. <i>Trends in Genetics</i> , 2012 , 28, 506-14	8.5	85
172	Role of DNA methylation in the regulation of the RANKL-OPG system in human bone. <i>Epigenetics</i> , 2012 , 7, 83-91	5.7	84
171	The dioxin receptor is silenced by promoter hypermethylation in human acute lymphoblastic leukemia through inhibition of Sp1 binding. <i>Carcinogenesis</i> , 2006 , 27, 1099-104	4.6	82
170	Angiostatic activity of DNA methyltransferase inhibitors. <i>Molecular Cancer Therapeutics</i> , 2006 , 5, 467-75	6.1	82
169	Molecular analysis of a multistep lung cancer model induced by chronic inflammation reveals epigenetic regulation of p16 and activation of the DNA damage response pathway. <i>Neoplasia</i> , 2007 , 9, 840-52	6.4	77
168	Genetic variants in epigenetic genes and breast cancer risk. <i>Carcinogenesis</i> , 2006 , 27, 1661-9	4.6	77
167	Epigenetic loss of the familial tumor-suppressor gene exostosin-1 (EXT1) disrupts heparan sulfate synthesis in cancer cells. <i>Human Molecular Genetics</i> , 2004 , 13, 2753-65	5.6	76
166	Epigenetic mechanisms regulate MHC and antigen processing molecules in human embryonic and induced pluripotent stem cells. <i>PLoS ONE</i> , 2010 , 5, e10192	3.7	76
165	DNMT1 Inhibition Reprograms Pancreatic Cancer Stem Cells via Upregulation of the miR-17-92 Cluster. <i>Cancer Research</i> , 2016 , 76, 4546-58	10.1	74
164	Global DNA hypomethylation in cancer: review of validated methods and clinical significance. <i>Clinical Chemistry and Laboratory Medicine</i> , 2012 , 50, 1733-42	5.9	74
163	Phase-change related epigenetic and physiological changes in <i>Pinus radiata</i> D. Don. <i>Planta</i> , 2002 , 215, 672-8	4.7	74
162	Aging epigenetics: causes and consequences. <i>Molecular Aspects of Medicine</i> , 2013 , 34, 765-81	16.7	71

161	Discovery of salermide-related sirtuin inhibitors: binding mode studies and antiproliferative effects in cancer cells including cancer stem cells. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 10937-47	8.3	70
160	Novel epigenetically deregulated genes in testicular cancer include homeobox genes and SCGB3A1 (HIN-1). <i>Journal of Pathology</i> , 2006 , 210, 441-9	9.4	70
159	Identification of a DNA methylation signature in blood cells from persons with Down Syndrome. <i>Aging</i> , 2015 , 7, 82-96	5.6	68
158	TERRA recruitment of polycomb to telomeres is essential for histone trimethylation marks at telomeric heterochromatin. <i>Nature Communications</i> , 2018 , 9, 1548	17.4	67
157	The ADAMTS12 metalloprotease gene is epigenetically silenced in tumor cells and transcriptionally activated in the stroma during progression of colon cancer. <i>Journal of Cell Science</i> , 2009 , 122, 2906-13	5.3	67
156	Genetic and non-genetic predictors of LINE-1 methylation in leukocyte DNA. <i>Environmental Health Perspectives</i> , 2013 , 121, 650-6	8.4	66
155	The absence of p53 is critical for the induction of apoptosis by 5-aza-2-deoxycytidine. <i>Oncogene</i> , 2004 , 23, 735-43	9.2	65
154	DNA methylation patterns in newborns exposed to tobacco in utero. <i>Journal of Translational Medicine</i> , 2015 , 13, 25	8.5	64
153	Fatty liver and fibrosis in glycine N-methyltransferase knockout mice is prevented by nicotinamide. <i>Hepatology</i> , 2010 , 52, 105-14	11.2	64
152	Altered expression of adhesion molecules and epithelial-mesenchymal transition in silica-induced rat lung carcinogenesis. <i>Laboratory Investigation</i> , 2004 , 84, 999-1012	5.9	64
151	The impact of MECP2 mutations in the expression patterns of Rett syndrome patients. <i>Human Genetics</i> , 2005 , 116, 91-104	6.3	63
150	Cancer genes hypermethylated in human embryonic stem cells. <i>PLoS ONE</i> , 2008 , 3, e3294	3.7	63
149	Young men with low birthweight exhibit decreased plasticity of genome-wide muscle DNA methylation by high-fat overfeeding. <i>Diabetologia</i> , 2014 , 57, 1154-8	10.3	62
148	The effect of exposure to nanoparticles and nanomaterials on the mammalian epigenome. <i>International Journal of Nanomedicine</i> , 2016 , 11, 6297-6306	7.3	58
147	Variations in DNA methylation patterns during the cell cycle of HeLa cells. <i>Epigenetics</i> , 2007 , 2, 54-65	5.7	57
146	S-adenosylmethionine levels regulate the schwann cell DNA methylome. <i>Neuron</i> , 2014 , 81, 1024-1039	13.9	56
145	iPSCs from cancer cells: challenges and opportunities. <i>Trends in Molecular Medicine</i> , 2012 , 18, 245-7	11.5	56
144	The novel DNA methylation inhibitor zebularine is effective against the development of murine T-cell lymphoma. <i>Blood</i> , 2006 , 107, 1174-7	2.2	56

143	Abnormal PcG protein expression in Hodgkin lymphoma. Relation with E2F6 and NFkappaB transcription factors. <i>Journal of Pathology</i> , 2004 , 204, 528-37	9.4	56
142	Epigenetic loss of RNA-methyltransferase NSUN5 in glioma targets ribosomes to drive a stress adaptive translational program. <i>Acta Neuropathologica</i> , 2019 , 138, 1053-1074	14.3	55
141	Regulation of DNA methylation patterns by CK2-mediated phosphorylation of Dnmt3a. <i>Cell Reports</i> , 2014 , 8, 743-53	10.6	55
140	Prelamin A causes progeria through cell-extrinsic mechanisms and prevents cancer invasion. <i>Nature Communications</i> , 2013 , 4, 2268	17.4	55
139	Immune-dependent and independent antitumor activity of GM-CSF aberrantly expressed by mouse and human colorectal tumors. <i>Cancer Research</i> , 2013 , 73, 395-405	10.1	55
138	Epigenetic repression of ROR2 has a Wnt-mediated, pro-tumourigenic role in colon cancer. <i>Molecular Cancer</i> , 2010 , 9, 170	42.1	52
137	Unmasking of epigenetically silenced candidate tumor suppressor genes by removal of methyl-CpG-binding domain proteins. <i>Oncogene</i> , 2008 , 27, 3556-66	9.2	52
136	The effects of the dietary polyphenol resveratrol on human healthy aging and lifespan. <i>Epigenetics</i> , 2011 , 6, 870-4	5.7	51
135	The RNA-binding protein HuR regulates DNA methylation through stabilization of DNMT3b mRNA. <i>Nucleic Acids Research</i> , 2009 , 37, 2658-71	20.1	50
134	Methylation of NKG2D ligands contributes to immune system evasion in acute myeloid leukemia. <i>Genes and Immunity</i> , 2015 , 16, 71-82	4.4	49
133	Distinct chromatin signatures of DNA hypomethylation in aging and cancer. <i>Aging Cell</i> , 2018 , 17, e127449.9		48
132	Vitamin C uncouples the Warburg metabolic switch in KRAS mutant colon cancer. <i>Oncotarget</i> , 2016 , 7, 47954-47965	3.3	48
131	The role of genetics in the establishment and maintenance of the epigenome. <i>Cellular and Molecular Life Sciences</i> , 2013 , 70, 1543-73	10.3	47
130	CpG island promoter hypermethylation of the Ras-effector gene NORE1A occurs in the context of a wild-type K-ras in lung cancer. <i>Oncogene</i> , 2004 , 23, 8695-9	9.2	47
129	Epigenetic inactivation of the Groucho homologue gene TLE1 in hematologic malignancies. <i>Cancer Research</i> , 2008 , 68, 4116-22	10.1	46
128	Differential analysis of genome-wide methylation and gene expression in mesenchymal stem cells of patients with fractures and osteoarthritis. <i>Epigenetics</i> , 2017 , 12, 113-122	5.7	45
127	A human ESC model for MLL-AF4 leukemic fusion gene reveals an impaired early hematopoietic-endothelial specification. <i>Cell Research</i> , 2012 , 22, 986-1002	24.7	45
126	Epigenetic regulation of the immune system in health and disease. <i>Tissue Antigens</i> , 2010 , 76, 431-9		45

125	DNA Methylation Profiling in Pheochromocytoma and Paraganglioma Reveals Diagnostic and Prognostic Markers. <i>Clinical Cancer Research</i> , 2015 , 21, 3020-30	12.9	44
124	Nuclear envelope alterations generate an aging-like epigenetic pattern in mice deficient in Zmpste24 metalloprotease. <i>Aging Cell</i> , 2010 , 9, 947-57	9.9	44
123	The B cell transcription program mediates hypomethylation and overexpression of key genes in Epstein-Barr virus-associated proliferative conversion. <i>Genome Biology</i> , 2013 , 14, R3	18.3	42
122	Aberrant epigenetic regulation of bromodomain BRD4 in human colon cancer. <i>Journal of Molecular Medicine</i> , 2012 , 90, 587-95	5.5	42
121	The role of 5-hydroxymethylcytosine in development, aging and age-related diseases. <i>Ageing Research Reviews</i> , 2017 , 37, 28-38	12	41
120	Beckwith-Wiedemann syndrome and uniparental disomy 11p: fine mapping of the recombination breakpoints and evaluation of several techniques. <i>European Journal of Human Genetics</i> , 2011 , 19, 416-21	5.3	40
119	Combinatorial effects of splice variants modulate function of Aiolos. <i>Journal of Cell Science</i> , 2007 , 120, 2619-30	5.3	40
118	Metallothionein 1E is methylated in malignant melanoma and increases sensitivity to cisplatin-induced apoptosis. <i>Melanoma Research</i> , 2010 , 20, 392-400	3.3	39
117	Identification of tri- and tetracyclic pyrimidinediones as sirtuin inhibitors. <i>ChemMedChem</i> , 2010 , 5, 674-73	7.7	38
116	Specific hypermethylation of LINE-1 elements during abnormal overgrowth and differentiation of human placenta. <i>Oncogene</i> , 2007 , 26, 2518-24	9.2	38
115	Genetic and epigenetic profile of sporadic pheochromocytomas. <i>Journal of Medical Genetics</i> , 2004 , 41, e30	5.8	38
114	Checkpoint kinase 1 (CHK1) protein and mRNA expression is downregulated in aggressive variants of human lymphoid neoplasms. <i>Leukemia</i> , 2005 , 19, 112-7	10.7	37
113	Lineage-restricted function of the pluripotency factor NANOG in stratified epithelia. <i>Nature Communications</i> , 2014 , 5, 4226	17.4	36
112	Epigenetic alterations of the Wnt/beta-catenin pathway in human disease. <i>Endocrine, Metabolic and Immune Disorders - Drug Targets</i> , 2007 , 7, 13-21	2.2	35
111	Autoregulatory loop of nuclear corepressor 1 expression controls invasion, tumor growth, and metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E328-37	11.5	34
110	Contribution of genetic and epigenetic mechanisms to Wnt pathway activity in prevalent skeletal disorders. <i>Gene</i> , 2013 , 532, 165-72	3.8	32
109	Epigenetics of Aging. <i>Current Genomics</i> , 2015 , 16, 435-40	2.6	32
108	DNA methylation changes in human lung epithelia cells exposed to multi-walled carbon nanotubes. <i>Nanotoxicology</i> , 2017 , 11, 857-870	5.3	31

107	The growing role of gene methylation on endocrine function. <i>Journal of Molecular Endocrinology</i> , 2011 , 47, R75-89	4.5	31
106	Global DNA hypomethylation in liver cancer cases and controls: a phase I preclinical biomarker development study. <i>Epigenetics</i> , 2007 , 2, 223-6	5.7	31
105	Aging genetics and aging 2011 , 2, 186-95		31
104	Hypomethylation of LINE-1, and not centromeric SAT- α is associated with centromeric instability in head and neck squamous cell carcinoma. <i>Cellular Oncology (Dordrecht)</i> , 2012 , 35, 259-67	7.2	30
103	Constitutional mosaic genome-wide uniparental disomy due to diploidisation: an unusual cancer-predisposing mechanism. <i>Journal of Medical Genetics</i> , 2011 , 48, 212-6	5.8	30
102	Development Refractoriness of MLL-Rearranged Human B Cell Acute Leukemias to Reprogramming into Pluripotency. <i>Stem Cell Reports</i> , 2016 , 7, 602-618	8	29
101	Reprogramming human B cells into induced pluripotent stem cells and its enhancement by C/EBP β <i>Leukemia</i> , 2016 , 30, 674-82	10.7	29
100	De novo DNA methyltransferases: oncogenes, tumor suppressors, or both?. <i>Trends in Genetics</i> , 2012 , 28, 474-9	8.5	29
99	Quantification of global DNA methylation by capillary electrophoresis and mass spectrometry. <i>Methods in Molecular Biology</i> , 2009 , 507, 23-34	1.4	29
98	Sirt1 brings stemness closer to cancer and aging. <i>Aging</i> , 2011 , 3, 162-7	5.6	29
97	Oncometabolic Nuclear Reprogramming of Cancer Stemness. <i>Stem Cell Reports</i> , 2016 , 6, 273-83	8	28
96	Lack of methylthioadenosine phosphorylase expression in mantle cell lymphoma is associated with shorter survival: implications for a potential targeted therapy. <i>Clinical Cancer Research</i> , 2006 , 12, 3754-61 ^{12.9}		28
95	Age-associated hydroxymethylation in human bone-marrow mesenchymal stem cells. <i>Journal of Translational Medicine</i> , 2016 , 14, 207	8.5	28
94	MiR-873-5p acts as an epigenetic regulator in early stages of liver fibrosis and cirrhosis. <i>Cell Death and Disease</i> , 2018 , 9, 958	9.8	28
93	Release of hypoacetylated and trimethylated histone H4 is an epigenetic marker of early apoptosis. <i>Journal of Biological Chemistry</i> , 2006 , 281, 13540-13547	5.4	27
92	Discovery of Reversible DNA Methyltransferase and Lysine Methyltransferase G9a Inhibitors with Antitumoral in Vivo Efficacy. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 6518-6545	8.3	27
91	Liver X Receptor Agonist Modifies the DNA Methylation Profile of Synapse and Neurogenesis-Related Genes in the Triple Transgenic Mouse Model of Alzheimer's Disease. <i>Journal of Molecular Neuroscience</i> , 2016 , 58, 243-53	3.3	26
90	A DNA methylation signature associated with the epigenetic repression of glycine N-methyltransferase in human hepatocellular carcinoma. <i>Journal of Molecular Medicine</i> , 2013 , 91, 939-50 ^{5.5}		26

89	Nuclear DICKKOPF-1 as a biomarker of chemoresistance and poor clinical outcome in colorectal cancer. <i>Oncotarget</i> , 2015 , 6, 5903-17	3.3	26
88	Role of sirtuins in stem cell differentiation. <i>Genes and Cancer</i> , 2013 , 4, 105-11	2.9	25
87	Frequent aberrant expression of the human ether α go-go (hEAG1) potassium channel in head and neck cancer: pathobiological mechanisms and clinical implications. <i>Journal of Molecular Medicine</i> , 2012 , 90, 1173-84	5.5	25
86	Maintenance of human embryonic stem cells in mesenchymal stem cell-conditioned media augments hematopoietic specification. <i>Stem Cells and Development</i> , 2012 , 21, 1549-58	4.4	25
85	Changes in polyamine concentration associated with aging in <i>Pinus radiata</i> and <i>Prunus persica</i> . <i>Tree Physiology</i> , 2004 , 24, 1221-6	4.2	25
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