

# Andrew Feinberg

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6397923/andrew-feinberg-publications-by-citations.pdf>  
**Version:** 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.  
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

241 papers	70,981 citations	98 h-index	266 g-index
270 ext. papers	76,526 ext. citations	15.4 avg, IF	7.99 L-index

#	Paper	IF	Citations
241	A technique for radiolabeling DNA restriction endonuclease fragments to high specific activity. <i>Analytical Biochemistry</i> , <b>1983</b> , 132, 6-13	3.1	20314
240	"A technique for radiolabeling DNA restriction endonuclease fragments to high specific activity". Addendum. <i>Analytical Biochemistry</i> , <b>1984</b> , 137, 266-7	3.1	6032
239	Minfi: a flexible and comprehensive Bioconductor package for the analysis of Infinium DNA methylation microarrays. <i>Bioinformatics</i> , <b>2014</b> , 30, 1363-9	7.2	1941
238	Hypomethylation distinguishes genes of some human cancers from their normal counterparts. <i>Nature</i> , <b>1983</b> , 301, 89-92	50.4	1906
237	The history of cancer epigenetics. <i>Nature Reviews Cancer</i> , <b>2004</b> , 4, 143-53	31.3	1803
236	Epigenetic memory in induced pluripotent stem cells. <i>Nature</i> , <b>2010</b> , 467, 285-90	50.4	1729
235	The human colon cancer methylome shows similar hypo- and hypermethylation at conserved tissue-specific CpG island shores. <i>Nature Genetics</i> , <b>2009</b> , 41, 178-186	36.3	1681
234	The epigenetic progenitor origin of human cancer. <i>Nature Reviews Genetics</i> , <b>2006</b> , 7, 21-33	30.1	1417
233	Phenotypic plasticity and the epigenetics of human disease. <i>Nature</i> , <b>2007</b> , 447, 433-40	50.4	1288
232	DNMT1 and DNMT3b cooperate to silence genes in human cancer cells. <i>Nature</i> , <b>2002</b> , 416, 552-6	50.4	1008
231	Differential methylation of tissue- and cancer-specific CpG island shores distinguishes human induced pluripotent stem cells, embryonic stem cells and fibroblasts. <i>Nature Genetics</i> , <b>2009</b> , 41, 1350-3	36.3	936
230	Increased methylation variation in epigenetic domains across cancer types. <i>Nature Genetics</i> , <b>2011</b> , 43, 768-75	36.3	825
229	Association of in vitro fertilization with Beckwith-Wiedemann syndrome and epigenetic alterations of LIT1 and H19. <i>American Journal of Human Genetics</i> , <b>2003</b> , 72, 156-60	11	762
228	Hypomethylation of DNA from benign and malignant human colon neoplasms. <i>Science</i> , <b>1985</b> , 228, 187-90	33.3	724
227	Epigenetic silencing of tumour suppressor gene p15 by its antisense RNA. <i>Nature</i> , <b>2008</b> , 451, 202-6	50.4	710
226	Relaxation of imprinted genes in human cancer. <i>Nature</i> , <b>1993</b> , 362, 747-9	50.4	708
225	Epigenome-wide association data implicate DNA methylation as an intermediary of genetic risk in rheumatoid arthritis. <i>Nature Biotechnology</i> , <b>2013</b> , 31, 142-7	44.5	691

224	DNA methylation age of blood predicts all-cause mortality in later life. <i>Genome Biology</i> , <b>2015</b> , 16, 25	18.3	670
223	Loss of IGF2 imprinting: a potential marker of colorectal cancer risk. <i>Science</i> , <b>2003</b> , 299, 1753-5	33.3	634
222	Intra-individual change over time in DNA methylation with familial clustering. <i>JAMA - Journal of the American Medical Association</i> , <b>2008</b> , 299, 2877-83	27.4	533
221	DNA methylation-based measures of biological age: meta-analysis predicting time to death. <i>Aging</i> , <b>2016</b> , 8, 1844-1865	5.6	531
220	Epigenetic modulators, modifiers and mediators in cancer aetiology and progression. <i>Nature Reviews Genetics</i> , <b>2016</b> , 17, 284-99	30.1	490
219	DNA Methylation in Newborns and Maternal Smoking in Pregnancy: Genome-wide Consortium Meta-analysis. <i>American Journal of Human Genetics</i> , <b>2016</b> , 98, 680-96	11	489
218	Comprehensive methylome map of lineage commitment from haematopoietic progenitors. <i>Nature</i> , <b>2010</b> , 467, 338-42	50.4	484
217	Large histone H3 lysine 9 dimethylated chromatin blocks distinguish differentiated from embryonic stem cells. <i>Nature Genetics</i> , <b>2009</b> , 41, 246-50	36.3	469
216	Donor cell type can influence the epigenome and differentiation potential of human induced pluripotent stem cells. <i>Nature Biotechnology</i> , <b>2011</b> , 29, 1117-9	44.5	443
215	Bump hunting to identify differentially methylated regions in epigenetic epidemiology studies. <i>International Journal of Epidemiology</i> , <b>2012</b> , 41, 200-9	7.8	430
214	Hypomethylation of ras oncogenes in primary human cancers. <i>Biochemical and Biophysical Research Communications</i> , <b>1983</b> , 111, 47-54	3.4	426
213	Cancer as a dysregulated epigenome allowing cellular growth advantage at the expense of the host. <i>Nature Reviews Cancer</i> , <b>2013</b> , 13, 497-510	31.3	421
212	SIRT3, a human SIR2 homologue, is an NAD-dependent deacetylase localized to mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 13653-8	11.5	420
211	Loss of imprinting of IGF2 is linked to reduced expression and abnormal methylation of H19 in Wilms' tumour. <i>Nature Genetics</i> , <b>1994</b> , 7, 433-9	36.3	418
210	Fusion of the nucleoporin gene NUP98 to HOXA9 by the chromosome translocation t(7;11)(p15;p15) in human myeloid leukaemia. <i>Nature Genetics</i> , <b>1996</b> , 12, 154-8	36.3	412
209	Evolution in health and medicine Sackler colloquium: Stochastic epigenetic variation as a driving force of development, evolutionary adaptation, and disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107 Suppl 1, 1757-64	11.5	398
208	Somatic deletion and duplication of genes on chromosome 11 in Wilms' tumours. <i>Nature</i> , <b>1984</b> , 309, 176-8	50.4	385
207	An integrated epigenetic and genetic approach to common human disease. <i>Trends in Genetics</i> , <b>2004</b> , 20, 350-8	8.5	367

206	Reduced genomic 5-methylcytosine content in human colonic neoplasia. <i>Cancer Research</i> , <b>1988</b> , 48, 1159-61	61.1	358
205	Comprehensive high-throughput arrays for relative methylation (CHARM). <i>Genome Research</i> , <b>2008</b> , 18, 780-90	9.7	350
204	Use of restriction fragment length polymorphisms to determine the clonal origin of human tumors. <i>Science</i> , <b>1985</b> , 227, 642-5	33.3	337
203	Human KVLQT1 gene shows tissue-specific imprinting and encompasses Beckwith-Wiedemann syndrome chromosomal rearrangements. <i>Nature Genetics</i> , <b>1997</b> , 15, 181-5	36.3	335
202	A comparison of non-integrating reprogramming methods. <i>Nature Biotechnology</i> , <b>2015</b> , 33, 58-63	44.5	326
201	Loss of imprinting of a paternally expressed transcript, with antisense orientation to KVLQT1, occurs frequently in Beckwith-Wiedemann syndrome and is independent of insulin-like growth factor II imprinting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1999</b> , 96, 5203-8	11.5	315
200	Loss of genes on the short arm of chromosome 11 in bladder cancer. <i>Nature</i> , <b>1985</b> , 318, 377-80	50.4	312
199	The NASA Twins Study: A multidimensional analysis of a year-long human spaceflight. <i>Science</i> , <b>2019</b> , 364,	33.3	300
198	Genome-scale epigenetic reprogramming during epithelial-to-mesenchymal transition. <i>Nature Structural and Molecular Biology</i> , <b>2011</b> , 18, 867-74	17.6	297
197	The Key Role of Epigenetics in Human Disease Prevention and Mitigation. <i>New England Journal of Medicine</i> , <b>2018</b> , 378, 1323-1334	59.2	290
196	An X chromosome gene, WTX, is commonly inactivated in Wilms tumor. <i>Science</i> , <b>2007</b> , 315, 642-5	33.3	288
195	Loss of imprinting in colorectal cancer linked to hypomethylation of H19 and IGF2. <i>Cancer Research</i> , <b>2002</b> , 62, 6442-6	10.1	282
194	BORIS, a novel male germ-line-specific protein associated with epigenetic reprogramming events, shares the same 11-zinc-finger domain with CTCF, the insulator protein involved in reading imprinting marks in the soma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 6806-11	11.5	279
193	Epigenetics at the epicenter of modern medicine. <i>JAMA - Journal of the American Medical Association</i> , <b>2008</b> , 299, 1345-50	27.4	275
192	Loss of imprinting of Igf2 alters intestinal maturation and tumorigenesis in mice. <i>Science</i> , <b>2005</b> , 307, 1976-8	63.3	272
191	The epigenetics of cancer etiology. <i>Seminars in Cancer Biology</i> , <b>2004</b> , 14, 427-32	12.7	272
190	Epigenetics and assisted reproductive technology: a call for investigation. <i>American Journal of Human Genetics</i> , <b>2004</b> , 74, 599-609	11	269
189	Imprinting of the gene encoding a human cyclin-dependent kinase inhibitor, p57KIP2, on chromosome 11p15. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1996</b> , 93, 3026-30	11.5	266

188	Poly(ADP-ribosyl)ation regulates CTCF-dependent chromatin insulation. <i>Nature Genetics</i> , <b>2004</b> , 36, 1105-1103	261
187	Personalized epigenomic signatures that are stable over time and covary with body mass index. <i>Science Translational Medicine</i> , <b>2010</b> , 2, 49ra67	17.5 254
186	Epigenomic reprogramming during pancreatic cancer progression links anabolic glucose metabolism to distant metastasis. <i>Nature Genetics</i> , <b>2017</b> , 49, 367-376	36.3 250
185	Loss of imprinting in normal tissue of colorectal cancer patients with microsatellite instability. <i>Nature Medicine</i> , <b>1998</b> , 4, 1276-80	50.5 249
184	Genetic linkage of Beckwith-Wiedemann syndrome to 11p15. <i>American Journal of Human Genetics</i> , <b>1989</b> , 44, 720-3	11 239
183	The emerging science of epigenomics. <i>Human Molecular Genetics</i> , <b>2006</b> , 15 Spec No 1, R95-101	5.6 238
182	Reversible switching between epigenetic states in honeybee behavioral subcastes. <i>Nature Neuroscience</i> , <b>2012</b> , 15, 1371-3	25.5 237
181	Epigenetic alterations of H19 and LIT1 distinguish patients with Beckwith-Wiedemann syndrome with cancer and birth defects. <i>American Journal of Human Genetics</i> , <b>2002</b> , 70, 604-11	11 236
180	Targeted disruption of the Kvlqt1 gene causes deafness and gastric hyperplasia in mice. <i>Journal of Clinical Investigation</i> , <b>2000</b> , 106, 1447-55	15.9 234
179	Multiple genetic alterations in distal and proximal colorectal cancer. <i>Lancet, The</i> , <b>1989</b> , 2, 353-6	40 230
178	DNA methylation signatures within the human brain. <i>American Journal of Human Genetics</i> , <b>2007</b> , 81, 1304-15	228
177	Common DNA methylation alterations in multiple brain regions in autism. <i>Molecular Psychiatry</i> , <b>2014</b> , 19, 862-71	15.1 219
176	DNA methylation of cord blood cell types: Applications for mixed cell birth studies. <i>Epigenetics</i> , <b>2016</b> , 11, 354-62	5.7 196
175	Loss of allelic heterozygosity at a second locus on chromosome 11 in sporadic Wilms' tumor cells. <i>Molecular and Cellular Biology</i> , <b>1989</b> , 9, 1799-803	4.8 193
174	Association between Beckwith-Wiedemann syndrome and assisted reproductive technology: a case series of 19 patients. <i>Fertility and Sterility</i> , <b>2005</b> , 83, 349-54	4.8 191
173	Microallelotyping defines the sequence and tempo of allelic losses at tumour suppressor gene loci during colorectal cancer progression. <i>Nature Medicine</i> , <b>1995</b> , 1, 902-9	50.5 184
172	Tumor cell growth arrest caused by subchromosomal transferable DNA fragments from chromosome 11. <i>Science</i> , <b>1993</b> , 260, 361-4	33.3 174
171	LIT1, an imprinted antisense RNA in the human KvLQT1 locus identified by screening for differentially expressed transcripts using monochromosomal hybrids. <i>Human Molecular Genetics</i> , <b>1999</b> , 8, 1209-17	5.6 172

170	DNA methylation and genomic imprinting: insights from cancer into epigenetic mechanisms. <i>Seminars in Cancer Biology</i> , <b>2002</b> , 12, 389-98	12.7	171
169	DNA methylation signatures of chronic low-grade inflammation are associated with complex diseases. <i>Genome Biology</i> , <b>2016</b> , 17, 255	18.3	171
168	Regulated noise in the epigenetic landscape of development and disease. <i>Cell</i> , <b>2012</b> , 148, 1123-31	56.2	166
167	Association of Body Mass Index with DNA Methylation and Gene Expression in Blood Cells and Relations to Cardiometabolic Disease: A Mendelian Randomization Approach. <i>PLoS Medicine</i> , <b>2017</b> , 14, e1002215	11.6	162
166	Moving AHEAD with an international human epigenome project. <i>Nature</i> , <b>2008</b> , 454, 711-5	50.4	158
165	Distinct effects on gene expression of chemical and genetic manipulation of the cancer epigenome revealed by a multimodality approach. <i>Cancer Cell</i> , <b>2004</b> , 6, 361-71	24.3	157
164	Tissue, developmental, and tumor-specific expression of divergent transcripts in Wilms tumor. <i>Science</i> , <b>1990</b> , 250, 991-4	33.3	150
163	Mutation affecting the 12th amino acid of the c-Ha-ras oncogene product occurs infrequently in human cancer. <i>Science</i> , <b>1983</b> , 220, 1175-7	33.3	148
162	Loss of imprinting of insulin-like growth factor-II (IGF2) gene in distinguishing specific biologic subtypes of Wilms tumor. <i>Journal of the National Cancer Institute</i> , <b>2001</b> , 93, 1698-703	9.7	142
161	Low frequency of p57KIP2 mutation in Beckwith-Wiedemann syndrome. <i>American Journal of Human Genetics</i> , <b>1997</b> , 61, 304-9	11	138
160	Concerted nonsyntenic allelic loss in human colorectal carcinoma. <i>Science</i> , <b>1988</b> , 241, 961-5	33.3	134
159	Cancer epigenetics takes center stage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 392-4	11.5	130
158	Tumor-associated zinc finger mutations in the CTCF transcription factor selectively alter tts DNA-binding specificity. <i>Cancer Research</i> , <b>2002</b> , 62, 48-52	10.1	130
157	Redefining CpG islands using hidden Markov models. <i>Biostatistics</i> , <b>2010</b> , 11, 499-514	3.7	122
156	Large hypomethylated blocks as a universal defining epigenetic alteration in human solid tumors. <i>Genome Medicine</i> , <b>2014</b> , 6, 61	14.4	120
155	Limited up-regulation of DNA methyltransferase in human colon cancer reflecting increased cell proliferation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1996</b> , 93, 10366-70	11.5	118
154	Microdeletion of LIT1 in familial Beckwith-Wiedemann syndrome. <i>American Journal of Human Genetics</i> , <b>2004</b> , 75, 844-9	11	113
153	Genome-wide DNA methylation scan in major depressive disorder. <i>PLoS ONE</i> , <b>2012</b> , 7, e34451	3.7	113

152	Loss of imprinting of IGF2: a common epigenetic modifier of intestinal tumor risk. <i>Cancer Research</i> , <b>2005</b> , 65, 11236-40	10.1	111
151	Loss of imprinting of insulin growth factor II gene: a potential heritable biomarker for colon neoplasia predisposition. <i>Gastroenterology</i> , <b>2004</b> , 126, 964-70	13.3	110
150	Association of DNA Methylation Differences With Schizophrenia in an Epigenome-Wide Association Study. <i>JAMA Psychiatry</i> , <b>2016</b> , 73, 506-14	14.5	108
149	A genome-wide screen for normally methylated human CpG islands that can identify novel imprinted genes. <i>Genome Research</i> , <b>2002</b> , 12, 543-54	9.7	104
148	Genome-scale approaches to the epigenetics of common human disease. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , <b>2010</b> , 456, 13-21	5.1	102
147	Loss of imprinting in hepatoblastoma. <i>Cancer Research</i> , <b>1995</b> , 55, 1836-8	10.1	100
146	Large-scale hypomethylated blocks associated with Epstein-Barr virus-induced B-cell immortalization. <i>Genome Research</i> , <b>2014</b> , 24, 177-84	9.7	99
145	Hot-stop PCR: a simple and general assay for linear quantitation of allele ratios. <i>Nature Genetics</i> , <b>2000</b> , 25, 375-6	36.3	99
144	Sequence and comparative analysis of the mouse 1-megabase region orthologous to the human 11p15 imprinted domain. <i>Genome Research</i> , <b>2000</b> , 10, 1697-710	9.7	94
143	Multiple genetic loci within 11p15 defined by Beckwith-Wiedemann syndrome rearrangement breakpoints and subchromosomal transferable fragments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1995</b> , 92, 12456-60	11.5	93
142	Epigenomics reveals a functional genome anatomy and a new approach to common disease. <i>Nature Biotechnology</i> , <b>2010</b> , 28, 1049-52	44.5	92
141	Paternal sperm DNA methylation associated with early signs of autism risk in an autism-enriched cohort. <i>International Journal of Epidemiology</i> , <b>2015</b> , 44, 1199-210	7.8	91
140	Loss of imprinting of insulin-like growth factor-II in Wilms' tumor commonly involves altered methylation but not mutations of CTCF or its binding site. <i>Cancer Research</i> , <b>2001</b> , 61, 4947-50	10.1	91
139	Enhanced sensitivity to IGF-II signaling links loss of imprinting of IGF2 to increased cell proliferation and tumor risk. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 20926-31	11.5	90
138	Epigenetic specificity of loss of imprinting of the IGF2 gene in Wilms tumors. <i>Journal of the National Cancer Institute</i> , <b>2007</b> , 99, 1270-3	9.7	89
137	Imprinting of a genomic domain of 11p15 and loss of imprinting in cancer: an introduction. <i>Cancer Research</i> , <b>1999</b> , 59, 1743s-1746s	10.1	87
136	Parental imprinting of human chromosome region 11p15.3-pter involved in the Beckwith-Wiedemann syndrome and various human neoplasia. <i>European Journal of Human Genetics</i> , <b>1994</b> , 2, 3-23	5.3	85
135	Age and sun exposure-related widespread genomic blocks of hypomethylation in nonmalignant skin. <i>Genome Biology</i> , <b>2015</b> , 16, 80	18.3	83



134	DNA methylation as a mediator of HLA-DRB1*15:01 and a protective variant in multiple sclerosis. <i>Nature Communications</i> , <b>2018</b> , 9, 2397	17.4	81
133	Syntenic organization of the mouse distal chromosome 7 imprinting cluster and the Beckwith-Wiedemann syndrome region in chromosome 11p15.5. <i>Human Molecular Genetics</i> , <b>1998</b> , 7, 1149-59	5.6	81
132	Butyrophenone influences on the opiate receptor. <i>European Journal of Pharmacology</i> , <b>1976</b> , 36, 231-5	5.3	80
131	Meta-analysis of epigenome-wide association studies in neonates reveals widespread differential DNA methylation associated with birthweight. <i>Nature Communications</i> , <b>2019</b> , 10, 1893	17.4	79
130	An LSC epigenetic signature is largely mutation independent and implicates the HOXA cluster in AML pathogenesis. <i>Nature Communications</i> , <b>2015</b> , 6, 8489	17.4	79
129	A 2.5-Mb transcript map of a tumor-suppressing subchromosomal transferable fragment from 11p15.5, and isolation and sequence analysis of three novel genes. <i>Genomics</i> , <b>1997</b> , 46, 9-17	4.3	79
128	Measuring cell-type specific differential methylation in human brain tissue. <i>Genome Biology</i> , <b>2013</b> , 14, R94	18.3	78
127	A nucleolar protein, H19 opposite tumor suppressor (HOTS), is a tumor growth inhibitor encoded by a human imprinted H19 antisense transcript. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 16759-64	11.5	78
126	DIPG-12. TARGETING EPIGENETIC MODIFIERS TO INDUCE IMMUNE SIGNALING IN DIPG. <i>Neuro-Oncology</i> , <b>2020</b> , 22, iii289-iii289	1	78
125	GeMes, clusters of DNA methylation under genetic control, can inform genetic and epigenetic analysis of disease. <i>American Journal of Human Genetics</i> , <b>2014</b> , 94, 485-95	11	76
124	Mouse-human experimental epigenetic analysis unmask dietary targets and genetic liability for diabetic phenotypes. <i>Cell Metabolism</i> , <b>2015</b> , 21, 138-49	24.6	76
123	Presence of an epigenetic signature of prenatal cigarette smoke exposure in childhood. <i>Environmental Research</i> , <b>2016</b> , 144, 139-148	7.9	75
122	Significance analysis and statistical dissection of variably methylated regions. <i>Biostatistics</i> , <b>2012</b> , 13, 166-78	3.7	75
121	Loss of Imprinting in Disease Progression in Chronic Myelogenous Leukemia. <i>Blood</i> , <b>1998</b> , 91, 3144-3147	2.2	71
120	BAT3 and SET1A form a complex with CTCFL/BORIS to modulate H3K4 histone dimethylation and gene expression. <i>Molecular and Cellular Biology</i> , <b>2008</b> , 28, 6720-9	4.8	68
119	Neuronal brain-region-specific DNA methylation and chromatin accessibility are associated with neuropsychiatric trait heritability. <i>Nature Neuroscience</i> , <b>2019</b> , 22, 307-316	25.5	68
118	A selective phenelzine analogue inhibitor of histone demethylase LSD1. <i>ACS Chemical Biology</i> , <b>2014</b> , 9, 1284-93	4.9	66
117	Blood Leukocyte DNA Methylation Predicts Risk of Future Myocardial Infarction and Coronary Heart Disease. <i>Circulation</i> , <b>2019</b> , 140, 645-657	16.7	65



116	Higher order chromatin organization in cancer. <i>Seminars in Cancer Biology</i> , <b>2013</b> , 23, 109-15	12.7	65
115	Potential energy landscapes identify the information-theoretic nature of the epigenome. <i>Nature Genetics</i> , <b>2017</b> , 49, 719-729	36.3	64
114	Interferon-alpha restores the deficient expression of the cytoadhesion molecule lymphocyte function antigen-3 by chronic myelogenous leukemia progenitor cells. <i>Journal of Clinical Investigation</i> , <b>1991</b> , 88, 2131-6	15.9	63
113	Epigenetics at the Crossroads of Genes and the Environment. <i>JAMA - Journal of the American Medical Association</i> , <b>2015</b> , 314, 1129-30	27.4	62
112	Accurate genome-scale percentage DNA methylation estimates from microarray data. <i>Biostatistics</i> , <b>2011</b> , 12, 197-210	3.7	62
111	Two novel genes in the center of the 11p15 imprinted domain escape genomic imprinting. <i>Human Molecular Genetics</i> , <b>1999</b> , 8, 683-90	5.6	62
110	Whole-genome analysis of the methylome and hydroxymethylome in normal and malignant lung and liver. <i>Genome Research</i> , <b>2016</b> , 26, 1730-1741	9.7	61
109	DNA methylation shows genome-wide association of NFIX, RAPGEF2 and MSRB3 with gestational age at birth. <i>International Journal of Epidemiology</i> , <b>2012</b> , 41, 188-99	7.8	60
108	Genetics and epigenetics--nature's pen-and-pencil set. <i>New England Journal of Medicine</i> , <b>2007</b> , 356, 731-3	39.2	60
107	Monoallelic expression and methylation of imprinted genes in human and mouse embryonic germ cell lineages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 10599-604	11.5	59
106	SNP-specific array-based allele-specific expression analysis. <i>Genome Research</i> , <b>2008</b> , 18, 771-9	9.7	56
105	Nanoelectromechanics of methylated DNA in a synthetic nanopore. <i>Biophysical Journal</i> , <b>2009</b> , 96, L32-4	2.9	54
104	The commonality of plasticity underlying multipotent tumor cells and embryonic stem cells. <i>Journal of Cellular Biochemistry</i> , <b>2007</b> , 101, 908-17	4.7	51
103	Nanopore sequencing in microgravity. <i>Npj Microgravity</i> , <b>2016</b> , 2, 16035	5.3	50
102	Prenatal mercury concentration is associated with changes in DNA methylation at TCEANC2 in newborns. <i>International Journal of Epidemiology</i> , <b>2015</b> , 44, 1249-62	7.8	48
101	Case-control meta-analysis of blood DNA methylation and autism spectrum disorder. <i>Molecular Autism</i> , <b>2018</b> , 9, 40	6.5	48
100	A species-generalized probabilistic model-based definition of CpG islands. <i>Mammalian Genome</i> , <b>2009</b> , 20, 674-80	3.2	47
99	Targeted regulation of imprinted genes by synthetic zinc-finger transcription factors. <i>Gene Therapy</i> , <b>2003</b> , 10, 513-22	4	47

98	Alterations in DNA methylation in human colon neoplasia. <i>Journal of Surgical Oncology</i> , <b>1987</b> , 3, 149-51		47
97	Detailed DNA methylation profiles of the E-cadherin promoter in the NCI-60 cancer cells. <i>Molecular Cancer Therapeutics</i> , <b>2007</b> , 6, 391-403	6.1	46
96	Genomic imprinting of a human apoptosis gene homologue, TSSC3. <i>Cancer Research</i> , <b>1998</b> , 58, 1052-6	10.1	46
95	Loss of allelic heterozygosity at a second locus on chromosome 11 in sporadic Wilms' tumor cells. <i>Molecular and Cellular Biology</i> , <b>1989</b> , 9, 1799-1803	4.8	45
94	Reduced expression of the cyclin-dependent kinase inhibitor gene p57KIP2 in Wilms' tumor. <i>Cancer Research</i> , <b>1996</b> , 56, 5723-7	10.1	45
93	Cross-tissue integration of genetic and epigenetic data offers insight into autism spectrum disorder. <i>Nature Communications</i> , <b>2017</b> , 8, 1011	17.4	44
92	Genomic imprinting, DNA methylation, and cancer. <i>Journal of the National Cancer Institute</i> , <b>1994</b> , 86, 753-9	9.7	44
91	DNA methylation, genomic imprinting and cancer. <i>Current Topics in Microbiology and Immunology</i> , <b>2000</b> , 249, 87-99	3.3	43
90	An epigenetic approach to cancer etiology. <i>Cancer Journal (Sudbury, Mass)</i> , <b>2007</b> , 13, 70-4	2.2	42
89	Smoking induces DNA methylation changes in Multiple Sclerosis patients with exposure-response relationship. <i>Scientific Reports</i> , <b>2017</b> , 7, 14589	4.9	41
88	Epigenetic stochasticity, nuclear structure and cancer: the implications for medicine. <i>Journal of Internal Medicine</i> , <b>2014</b> , 276, 5-11	10.8	40
87	A novel human homologue of yeast nucleosome assembly protein, 65 kb centromeric to the p57KIP2 gene, is biallelically expressed in fetal and adult tissues. <i>Human Molecular Genetics</i> , <b>1996</b> , 5, 1743-8	5.6	38
86	Cancer epigenetics is no Mickey Mouse. <i>Cancer Cell</i> , <b>2005</b> , 8, 267-8	24.3	37
85	Association of chromosome arm 16q loss with loss of imprinting of insulin-like growth factor-II in Wilms tumor. <i>Genes Chromosomes and Cancer</i> , <b>2005</b> , 43, 155-61	5	37
84	Disruption of a novel imprinted zinc-finger gene, ZNF215, in Beckwith-Wiedemann syndrome. <i>American Journal of Human Genetics</i> , <b>2000</b> , 66, 1473-84	11	37
83	DNA methylation mediates genotype and smoking interaction in the development of anti-citrullinated peptide antibody-positive rheumatoid arthritis. <i>Arthritis Research and Therapy</i> , <b>2017</b> , 19, 71	5.7	36
82	Mutant WT1 is associated with DNA hypermethylation of PRC2 targets in AML and responds to EZH2 inhibition. <i>Blood</i> , <b>2015</b> , 125, 316-26	2.2	35
81	"Gap hunting" to characterize clustered probe signals in Illumina methylation array data. <i>Epigenetics and Chromatin</i> , <b>2016</b> , 9, 56	5.8	34

80	CTCF/BORIS is a methylation-independent DNA-binding protein that preferentially binds to the paternal H19 differentially methylated region. <i>Cancer Research</i> , <b>2008</b> , 68, 5546-51	10.1	34
79	Factors associated with preterm delivery in mothers of children with Beckwith-Wiedemann syndrome: a case cohort study from the BWS registry. <i>American Journal of Medical Genetics, Part A</i> , <b>2005</b> , 134A, 187-91	2.5	34
78	Euchromatin islands in large heterochromatin domains are enriched for CTCF binding and differentially DNA-methylated regions. <i>BMC Genomics</i> , <b>2012</b> , 13, 566	4.5	33
77	DNA methyltransferase 1 and 3B activate BAG-1 expression via recruitment of CTCFL/BORIS and modulation of promoter histone methylation. <i>Cancer Research</i> , <b>2008</b> , 68, 2726-35	10.1	33
76	DNA methylation is stable during replication and cell cycle arrest. <i>Scientific Reports</i> , <b>2015</b> , 5, 17911	4.9	32
75	Epigenetic effects in eukaryotic gene expression. <i>Genesis</i> , <b>1994</b> , 15, 458-62		32
74	Epigenetic marks of prenatal air pollution exposure found in multiple tissues relevant for child health. <i>Environment International</i> , <b>2019</b> , 126, 363-376	12.9	31
73	A new link between epigenetic progenitor lesions in cancer and the dynamics of signal transduction. <i>Cell Cycle</i> , <b>2009</b> , 8, 383-90	4.7	31
72	Strain-dependent developmental relaxation of imprinting of an endogenous mouse gene, Kvlqt1. <i>Genomics</i> , <b>1998</b> , 53, 395-9	4.3	31
71	Children with idiopathic hemihypertrophy and beckwith-wiedemann syndrome have different constitutional epigenotypes associated with wilms tumor. <i>American Journal of Human Genetics</i> , <b>2005</b> , 77, 887-91	11	29
70	Parent-of-origin effects in autism identified through genome-wide linkage analysis of 16,000 SNPs. <i>PLoS ONE</i> , <b>2010</b> , 5, e12513	3.7	28
69	An integrated physical map of 210 markers assigned to the short arm of human chromosome 11. <i>Genomics</i> , <b>1994</b> , 21, 538-50	4.3	28
68	Somatic mutation of TSSC5, a novel imprinted gene from human chromosome 11p15.5. <i>Cancer Research</i> , <b>1998</b> , 58, 4155-9	10.1	28
67	Overlapping euchromatin/heterochromatin- associated marks are enriched in imprinted gene regions and predict allele-specific modification. <i>Genome Research</i> , <b>2008</b> , 18, 1806-13	9.7	27
66	Reversal of loss of imprinting in tumor cells by 5-aza-2'-deoxycytidine. <i>Cancer Research</i> , <b>1997</b> , 57, 48-50	10.1	25
65	Epigenetic variability and the evolution of human cancer. <i>Advances in Cancer Research</i> , <b>2003</b> , 88, 145-68	5.9	24
64	Comprehensive high-throughput arrays for relative methylation (CHARM). <i>Current Protocols in Human Genetics</i> , <b>2010</b> , Chapter 20, Unit 20.1.1-19	3.2	23
63	A genetic approach to cancer epigenetics. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , <b>2005</b> , 70, 335-41	3.9	23

62	Mosaic allelic insulin-like growth factor 2 expression patterns reveal a link between Wilms' tumorigenesis and epigenetic heterogeneity. <i>Cancer Research</i> , <b>1999</b> , 59, 3889-92	10.1	23
61	Reply to Reassessing the abundance of H3K9me2 chromatin domains in embryonic stem cells. <i>Nature Genetics</i> , <b>2010</b> , 42, 5-6	36.3	22
60	Cloning and chromosomal localization of the human BARX2 homeobox protein gene. <i>Gene</i> , <b>2000</b> , 250, 171-80	3.8	21
59	The new field of epigenomics: implications for cancer and other common disease research. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , <b>2004</b> , 69, 447-56	3.9	21
58	The two-domain hypothesis in Beckwith-Wiedemann syndrome. <i>Journal of Clinical Investigation</i> , <b>2000</b> , 106, 739-40	15.9	20
57	High-specificity bioinformatics framework for epigenomic profiling of discordant twins reveals specific and shared markers for ACPA and ACPA-positive rheumatoid arthritis. <i>Genome Medicine</i> , <b>2016</b> , 8, 124	14.4	20
56	Temporal stability and age-related prevalence of loss of imprinting of the insulin-like growth factor-2 gene. <i>Epigenetics</i> , <b>2009</b> , 4, 114-8	5.7	19
55	Adaptation of the CHARM DNA methylation platform for the rat genome reveals novel brain region-specific differences. <i>Epigenetics</i> , <b>2011</b> , 6, 1378-90	5.7	17
54	Multiple genetic abnormalities of 11p15 in Wilms' tumor. <i>Medical and Pediatric Oncology</i> , <b>1996</b> , 27, 484-9		17
53	Loss of imprinting in human cancer. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , <b>1994</b> , 59, 357-64	3.9	17
52	Identification and mapping of human histone acetylation modifier gene homologues. <i>Genomics</i> , <b>1998</b> , 51, 262-9	4.3	16
51	Construction of chicken x human microcell hybrids for human gene targeting. <i>Cytogenetic and Genome Research</i> , <b>1997</b> , 76, 72-6	1.9	15
50	Gene-based SNP mapping of a psychotic bipolar affective disorder linkage region on 22q12.3: association with HMG2L1 and TOM1. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , <b>2008</b> , 147B, 59-67	3.5	15
49	A developmental context for multiple genetic alterations in Wilms' tumor. <i>Journal of Cell Science</i> , <b>1994</b> , 18, 7-12	5.3	15
48	An information-theoretic approach to the modeling and analysis of whole-genome bisulfite sequencing data. <i>BMC Bioinformatics</i> , <b>2018</b> , 19, 87	3.6	14
47	DNA methylation in cancer: three decades of discovery. <i>Genome Medicine</i> , <b>2014</b> , 6, 36	14.4	12
46	Increase in Science Research Commitment in a Didactic and Laboratory-Based Program Targeted to Gifted Minority High-School Students. <i>Roeper Review</i> , <b>2013</b> , 35, 18-26	1.4	12
45	Arioc: GPU-accelerated alignment of short bisulfite-treated reads. <i>Bioinformatics</i> , <b>2018</b> , 34, 2673-2675	7.2	11

44	Statistical mechanics meets single-cell biology. <i>Nature Reviews Genetics</i> , <b>2021</b> , 22, 459-476	30.1	11
43	Capture and characterization of 5-aza-2'-deoxycytidine-treated C3H/10T1/2 cells prior to transformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1988</b> , 85, 6384-8	11.5	10
42	The epigenetic basis of common human disease. <i>Transactions of the American Clinical and Climatological Association</i> , <b>2013</b> , 124, 84-93	0.9	10
41	Addition of H19 'loss of methylation testing' for Beckwith-Wiedemann syndrome (BWS) increases the diagnostic yield. <i>Journal of Molecular Diagnostics</i> , <b>2010</b> , 12, 576-88	5.1	9
40	Simple purification of human chromosomes to homogeneity using muntjac hybrid cells. <i>Nature Genetics</i> , <b>1994</b> , 7, 29-33	36.3	9
39	Molecular analysis of retroviral transduction in chronic myelogenous leukemia. <i>Human Gene Therapy</i> , <b>1991</b> , 2, 317-21	4.8	9
38	Analyzing whole genome bisulfite sequencing data from highly divergent genotypes. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, e117	20.1	8
37	Inheritance pattern of Beckwith-Wiedemann syndrome is heterogeneous in 291 families with an affected proband. <i>American Journal of Medical Genetics, Part A</i> , <b>2005</b> , 137, 16-21	2.5	8
36	Alterations in DNA methylation in colorectal polyps and cancer. <i>Progress in Clinical and Biological Research</i> , <b>1988</b> , 279, 309-17		8
35	Overlapping euchromatin/heterochromatin-associated marks are enriched in imprinted gene regions and predict allele-specific modification. <i>Genome Research</i> ,	9.7	8
34	Ranking genomic features using an information-theoretic measure of epigenetic discordance. <i>BMC Bioinformatics</i> , <b>2019</b> , 20, 175	3.6	7
33	A Dysregulated DNA Methylation Landscape Linked to Gene Expression in MLL-Rearranged AML. <i>Epigenetics</i> , <b>2020</b> , 15, 841-858	5.7	7
32	Evaluation of techniques for performing cellular isolation and preservation during microgravity conditions. <i>Npj Microgravity</i> , <b>2016</b> , 2, 16025	5.3	7
31	Wilms' tumor as a model for cancer biology. <i>Methods in Molecular Biology</i> , <b>2003</b> , 222, 239-48	1.4	7
30	A Loss of Epigenetic Control Can Promote Cell Death through Reversing the Balance of Pathways in a Signaling Network. <i>Molecular Cell</i> , <b>2018</b> , 72, 60-70.e3	17.6	7
29	Multiple tumor suppressor genes in multistep carcinogenesis. <i>Tohoku Journal of Experimental Medicine</i> , <b>1992</b> , 168, 149-52	2.4	6
28	Loss of Imprinting in Disease Progression in Chronic Myelogenous Leukemia. <i>Blood</i> , <b>1998</b> , 91, 3144-3147	2.2	6
27	Detection of haplotype-dependent allele-specific DNA methylation in WGBS data. <i>Nature Communications</i> , <b>2020</b> , 11, 5238	17.4	6

26	The nucleolus gets the silent treatment. <i>Cell Stem Cell</i> , <b>2014</b> , 15, 675-6	18	5
25	Transcribed dinucleotide repeat polymorphism in the IGF2 gene. <i>Human Molecular Genetics</i> , <b>1994</b> , 3, 386	5.6	5
24	Lack of parental origin specificity of altered alleles at 11p15 in testicular germ cell tumors. <i>Cancer Genetics and Cytogenetics</i> , <b>2003</b> , 147, 1-8		4
23	Genomic imprinting, DNA methylation, and cancer. <i>Journal of the National Cancer Institute Monographs</i> , <b>1995</b> , 21-6	4.8	4
22	Independent Methylome-Wide Association Studies of Schizophrenia Detect Consistent Case-Control Differences. <i>Schizophrenia Bulletin</i> , <b>2020</b> , 46, 319-327	1.3	3
21	A Genome-Wide Screen for Normally Methylated Human CpG Islands That Can Identify Novel Imprinted Genes. <i>Genome Research</i> , <b>2002</b> , 12, 543-554	9.7	3
20	Cross-tissue integration of genetic and epigenetic data offers insight into autism spectrum disorder		3
19	Converging genetic and epigenetic drivers of paediatric acute lymphoblastic leukaemia identified by an information-theoretic analysis. <i>Nature Biomedical Engineering</i> , <b>2021</b> , 5, 360-376	19	3
18	Whole genome analysis of the methylome and hydroxymethylome in normal and malignant lung and liver		2
17	Neuronal brain region-specific DNA methylation and chromatin accessibility are associated with neuropsychiatric disease heritability		2
16	Placenta DNA methylation at ZNF300 is associated with fetal sex and placental morphology		2
15	A third-generation method reveals cell lineage ancestry. <i>Nature Methods</i> , <b>2013</b> , 10, 117-8	21.6	1
14	Estimating DNA methylation potential energy landscapes from nanopore sequencing data. <i>Scientific Reports</i> , <b>2021</b> , 11, 21619	4.9	1
13	Autism-Associated DNA Methylation at Birth From Multiple Tissues Is Enriched for Autism Genes in the Early Autism Risk Longitudinal Investigation.. <i>Frontiers in Molecular Neuroscience</i> , <b>2021</b> , 14, 775390	6.1	1
12	Peripheral blood DNA methylation and autism spectrum disorder		1
11	Beckwith-Wiedemann Syndrome <b>1998</b> , 1047-1052		1
10	Analyzing whole genome bisulfite sequencing data from highly divergent genotypes		1
9	Imprinting Disorders		1

8	Human brain region-specific variably methylated regions are enriched for heritability of distinct neuropsychiatric traits. <i>Genome Biology</i> , <b>2021</b> , 22, 116	18.3	1
7	Cancer Epigenomics <b>2009</b> , 385-395		1
6	Stem cell differentiation as a renewal-reward process: predictions and validation in the colonic crypt. <i>Advances in Experimental Medicine and Biology</i> , <b>2012</b> , 736, 199-209	3.6	
5	A novel general strategy for cloning tumor suppressor genes using radiation-reduced chromosomal superfragments. <i>Tohoku Journal of Experimental Medicine</i> , <b>1992</b> , 168, 167-8	2.4	
4	A Subset of Genetic Alterations Distinguish Distal from Proximal Colorectal Cancer <b>1990</b> , 519-527		
3	Mutation in Wilms' Tumor 1 Induces DNA Hypermethylation of PRC2 Targets, Blocks Myelomonocytic Differentiation, and Defines a Novel Subtype of AML Responsive to EZH2 Inhibition. <i>Blood</i> , <b>2014</b> , 124, 780-780	2.2	
2	Epigenetic Signature of Leukemia Stem Cells Defines Subgroups Associated with Clinical Outcome and Cell of Origin in AML. <i>Blood</i> , <b>2014</b> , 124, 2147-2147	2.2	
1	Abstract IA009: Cancer is a disease of epigenetic stochasticity. <i>Cancer Research</i> , <b>2022</b> , 82, IA009-IA009	10.1	