

Adrian Peter Bird

List of Publications by Year in descending order

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134
papers

45,958
citations

12330

69
h-index

16183

124
g-index

149
all docs

149
docs citations

149
times ranked

38698
citing authors

#	ARTICLE	IF	CITATIONS
1	DNA methylation patterns and epigenetic memory. <i>Genes and Development</i> , 2002, 16, 6-21.	5.9	5,932
2	Epigenetic regulation of gene expression: how the genome integrates intrinsic and environmental signals. <i>Nature Genetics</i> , 2003, 33, 245-254.	21.4	5,434
3	Transcriptional repression by the methyl-CpG-binding protein MeCP2 involves a histone deacetylase complex. <i>Nature</i> , 1998, 393, 386-389.	27.8	3,102
4	DNA methylation landscapes: provocative insights from epigenomics. <i>Nature Reviews Genetics</i> , 2008, 9, 465-476.	16.3	2,619
5	CpG islands and the regulation of transcription. <i>Genes and Development</i> , 2011, 25, 1010-1022.	5.9	2,555
6	Perceptions of epigenetics. <i>Nature</i> , 2007, 447, 396-398.	27.8	2,465
7	A mouse <i>Mecp2</i> -null mutation causes neurological symptoms that mimic Rett syndrome. <i>Nature Genetics</i> , 2001, 27, 322-326.	21.4	1,401
8	Purification, sequence, and cellular localization of a novel chromosomal protein that binds to Methylated DNA. <i>Cell</i> , 1992, 69, 905-914.	28.9	1,253
9	Identification and Characterization of a Family of Mammalian Methyl-CpG Binding Proteins. <i>Molecular and Cellular Biology</i> , 1998, 18, 6538-6547.	2.3	1,216
10	MeCP2 Is a Transcriptional Repressor with Abundant Binding Sites in Genomic Chromatin. <i>Cell</i> , 1997, 88, 471-481.	28.9	1,165
11	Reversal of Neurological Defects in a Mouse Model of Rett Syndrome. <i>Science</i> , 2007, 315, 1143-1147.	12.6	1,093
12	The essentials of DNA methylation. <i>Cell</i> , 1992, 70, 5-8.	28.9	972
13	MBD2 is a transcriptional repressor belonging to the MeCP1 histone deacetylase complex. <i>Nature Genetics</i> , 1999, 23, 58-61.	21.4	783
14	DNA methylation inhibits transcription indirectly via a methyl-CpG binding protein. <i>Cell</i> , 1991, 64, 1123-1134.	28.9	708
15	High levels of De Novo methylation and altered chromatin structure at CpG islands in cell lines. <i>Cell</i> , 1990, 62, 503-514.	28.9	671
16	A fraction of the mouse genome that is derived from islands of nonmethylated, CpG-rich DNA. <i>Cell</i> , 1985, 40, 91-99.	28.9	661
17	Oxidative damage to methyl-CpG sequences inhibits the binding of the methyl-CpG binding domain (MBD) of methyl-CpG binding protein 2 (MeCP2). <i>Nucleic Acids Research</i> , 2004, 32, 4100-4108.	14.5	660
18	CpG islands influence chromatin structure via the CpG-binding protein Cfp1. <i>Nature</i> , 2010, 464, 1082-1086.	27.8	577

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19	The thymine glycosylase MBD4 can bind to the product of deamination at methylated CpG sites. <i>Nature</i> , 1999, 401, 301-304.	27.8	576
20	Dissection of the methyl-CpG binding domain from the chromosomal protein MeCP2. <i>Nucleic Acids Research</i> , 1993, 21, 4886-4892.	14.5	561
21	A Novel CpG Island Set Identifies Tissue-Specific Methylation at Developmental Gene Loci. <i>PLoS Biology</i> , 2008, 6, e22.	5.6	533
22	Closely related proteins MBD2 and MBD3 play distinctive but interacting roles in mouse development. <i>Genes and Development</i> , 2001, 15, 710-723.	5.9	453
23	The p120 catenin partner Kaiso is a DNA methylation-dependent transcriptional repressor. <i>Genes and Development</i> , 2001, 15, 1613-1618.	5.9	431
24	The International Human Epigenome Consortium: A Blueprint for Scientific Collaboration and Discovery. <i>Cell</i> , 2016, 167, 1145-1149.	28.9	404
25	Histone deacetylases: silencers for hire. <i>Trends in Biochemical Sciences</i> , 2000, 25, 121-126.	7.5	400
26	The Role of MeCP2 in the Brain. <i>Annual Review of Cell and Developmental Biology</i> , 2011, 27, 631-652.	9.4	388
27	Embryonic lethal phenotype reveals a function of TDG in maintaining epigenetic stability. <i>Nature</i> , 2011, 470, 419-423.	27.8	323
28	BLUEPRINT to decode the epigenetic signature written in blood. <i>Nature Biotechnology</i> , 2012, 30, 224-226.	17.5	323
29	Rett syndrome mutations abolish the interaction of MeCP2 with the NCoR/SMRT co-repressor. <i>Nature Neuroscience</i> , 2013, 16, 898-902.	14.8	317
30	Enhanced CpG Mutability and Tumorigenesis in MBD4-Deficient Mice. <i>Science</i> , 2002, 297, 403-405.	12.6	294
31	Rett syndrome: a complex disorder with simple roots. <i>Nature Reviews Genetics</i> , 2015, 16, 261-275.	16.3	277
32	Cell type-specific DNA methylation at intragenic CpG islands in the immune system. <i>Genome Research</i> , 2011, 21, 1074-1086.	5.5	256
33	Cfp1 integrates both CpG content and gene activity for accurate H3K4me3 deposition in embryonic stem cells. <i>Genes and Development</i> , 2012, 26, 1714-1728.	5.9	253
34	Active Repression of Methylated Genes by the Chromosomal Protein MBD1. <i>Molecular and Cellular Biology</i> , 2000, 20, 1394-1406.	2.3	238
35	Interaction between chromatin proteins MECP2 and ATRX is disrupted by mutations that cause inherited mental retardation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 2709-2714.	7.1	231
36	The methyl-CpG binding protein MeCP2 is essential for embryonic development in the mouse. <i>Nature Genetics</i> , 1996, 12, 205-208.	21.4	227

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37	A component of the transcriptional repressor MeCP1 shares a motif with DNA methyltransferase and HRX proteins. <i>Nature Genetics</i> , 1997, 16, 256-259.	21.4	222
38	The major form of MeCP2 has a novel N-terminus generated by alternative splicing. <i>Nucleic Acids Research</i> , 2004, 32, 1818-1823.	14.5	217
39	CpG methylation is targeted to transcription units in an invertebrate genome. <i>Genome Research</i> , 2007, 17, 625-631.	5.5	217
40	CpG islands as genomic footprints of promoters that are associated with replication origins. <i>Current Biology</i> , 1999, 9, R661-R667.	3.9	206
41	Systemic Delivery of MeCP2 Rescues Behavioral and Cellular Deficits in Female Mouse Models of Rett Syndrome. <i>Journal of Neuroscience</i> , 2013, 33, 13612-13620.	3.6	194
42	Gene Expression Analysis Exposes Mitochondrial Abnormalities in a Mouse Model of Rett Syndrome. <i>Molecular and Cellular Biology</i> , 2006, 26, 5033-5042.	2.3	182
43	Deficiency of Mbd2 suppresses intestinal tumorigenesis. <i>Nature Genetics</i> , 2003, 34, 145-147.	21.4	181
44	Up-regulation of glucocorticoid-regulated genes in a mouse model of Rett syndrome. <i>Human Molecular Genetics</i> , 2005, 14, 2247-2256.	2.9	174
45	DNA methylation and chromatin structure. <i>FEBS Letters</i> , 1991, 285, 155-159.	2.8	167
46	Kaiso-Deficient Mice Show Resistance to Intestinal Cancer. <i>Molecular and Cellular Biology</i> , 2006, 26, 199-208.	2.3	146
47	Rett Syndrome: Crossing the Threshold to Clinical Translation. <i>Trends in Neurosciences</i> , 2016, 39, 100-113.	8.6	135
48	Nonmethylated Transposable Elements and Methylated Genes in a Chordate Genome. <i>Science</i> , 1999, 283, 1164-1167.	12.6	134
49	Fas-associated death domain protein interacts with methyl-CpG binding domain protein 4: A potential link between genome surveillance and apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 5211-5216.	7.1	134
50	Morphological and functional reversal of phenotypes in a mouse model of Rett syndrome. <i>Brain</i> , 2012, 135, 2699-2710.	7.6	132
51	Absence of genome-wide changes in DNA methylation during development of the zebrafish. <i>Nature Genetics</i> , 1999, 23, 139-140.	21.4	130
52	Somatic frameshift mutations in the MBD4 gene of sporadic colon cancers with mismatch repair deficiency. <i>Oncogene</i> , 1999, 18, 8044-8047.	5.9	127
53	Vestiges of a DNA methylation system in <i>Drosophila melanogaster</i> ?. <i>Nature Genetics</i> , 1999, 23, 389-390.	21.4	124
54	Radically truncated MeCP2 rescues Rett syndrome-like neurological defects. <i>Nature</i> , 2017, 550, 398-401.	27.8	121

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55	MeCP2 recognizes cytosine methylated tri-nucleotide and di-nucleotide sequences to tune transcription in the mammalian brain. <i>PLoS Genetics</i> , 2017, 13, e1006793.	3.5	117
56	The effect of interspecific oocytes on demethylation of sperm DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 7636-7640.	7.1	112
57	Loss of rDNA methylation accompanies the onset of ribosomal gene activity in early development of <i>X. laevis</i> . <i>Cell</i> , 1981, 26, 381-390.	28.9	111
58	A Temporal Threshold for Formaldehyde Crosslinking and Fixation. <i>PLoS ONE</i> , 2009, 4, e4636.	2.5	110
59	The Role of Epigenetic Mechanisms in the Regulation of Gene Expression in the Nervous System. <i>Journal of Neuroscience</i> , 2016, 36, 11427-11434.	3.6	109
60	Ribosomal RNA gene amplification by rolling circles. <i>Journal of Molecular Biology</i> , 1974, 87, 473-487.	4.2	106
61	Genomic structure and chromosomal mapping of the murine and human Mbd1, Mbd2, Mbd3, and Mbd4 genes. <i>Mammalian Genome</i> , 1999, 10, 906-912.	2.2	100
62	Synthetic CpG islands reveal DNA sequence determinants of chromatin structure. <i>ELife</i> , 2014, 3, e03397.	6.0	95
63	The Molecular Basis of MeCP2 Function in the Brain. <i>Journal of Molecular Biology</i> , 2020, 432, 1602-1623.	4.2	89
64	A dominant role for the methyl-CpG-binding protein Mbd2 in controlling Th2 induction by dendritic cells. <i>Nature Communications</i> , 2015, 6, 6920.	12.8	87
65	MBD4 deficiency reduces the apoptotic response to DNA-damaging agents in the murine small intestine. <i>Oncogene</i> , 2003, 22, 7130-7136.	5.9	85
66	Postnatal inactivation reveals enhanced requirement for MeCP2 at distinct age windows. <i>Human Molecular Genetics</i> , 2012, 21, 3806-3814.	2.9	84
67	Gene Silencing by Methyl-CpG-Binding Proteins. <i>Novartis Foundation Symposium</i> , 1998, 214, 6-21.	1.1	84
68	Disease Modeling Using Embryonic Stem Cells: MeCP2 Regulates Nuclear Size and RNA Synthesis in Neurons. <i>Stem Cells</i> , 2012, 30, 2128-2139.	3.2	79
69	Transcriptional repression by methylation of CpG. <i>Journal of Cell Science</i> , 1992, 1992, 9-14.	2.0	78
70	The molecular basis of variable phenotypic severity among common missense mutations causing Rett syndrome. <i>Human Molecular Genetics</i> , 2016, 25, 558-570.	2.9	76
71	R-Loops Enhance Polycomb Repression at a Subset of Developmental Regulator Genes. <i>Molecular Cell</i> , 2019, 73, 930-945.e4.	9.7	75
72	Densely methylated sequences that are preferentially localized at telomere-proximal regions of human chromosomes. <i>Gene</i> , 1999, 240, 269-277.	2.2	72

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73	Genomic Approaches Reveal Unexpected Genetic Divergence Within <i>Ciona intestinalis</i> . <i>Journal of Molecular Evolution</i> , 2005, 61, 627-635.	1.8	72
74	MOLECULAR BIOLOGY: MeCP2 Repression Goes Nonglobal. <i>Science</i> , 2003, 302, 793-795.	12.6	66
75	An Alternative Promoter in the Mouse Major Histocompatibility Complex Class II I- \hat{A}^2 Gene: Implications for the Origin of CpG Islands. <i>Molecular and Cellular Biology</i> , 1998, 18, 4433-4443.	2.3	65
76	Targeting of De Novo DNA Methylation Throughout the Oct-4 Gene Regulatory Region in Differentiating Embryonic Stem Cells. <i>PLoS ONE</i> , 2010, 5, e9937.	2.5	65
77	dSIR2 and dHDAC6: Two Novel, Inhibitor-Resistant Deacetylases in <i>Drosophila melanogaster</i> . <i>Experimental Cell Research</i> , 2001, 265, 90-103.	2.6	64
78	MeCP2 and other methyl-CpG binding proteins. <i>Mental Retardation and Developmental Disabilities Research Reviews</i> , 2002, 8, 87-93.	3.6	64
79	The methyl-CpG-binding protein MeCP2 and neurological disease. <i>Biochemical Society Transactions</i> , 2008, 36, 575-583.	3.4	63
80	DNAase I sensitivity and methylation of active versus inactive rRNA genes in <i>Xenopus</i> species hybrids. <i>Cell</i> , 1982, 29, 211-218.	28.9	60
81	Reversibility of functional deficits in experimental models of Rett syndrome. <i>Biochemical Society Transactions</i> , 2010, 38, 498-506.	3.4	59
82	Mbd2 Contributes to DNA Methylation-Directed Repression of the Xist Gene. <i>Molecular and Cellular Biology</i> , 2007, 27, 3750-3757.	2.3	57
83	Exclusive expression of MeCP2 in the nervous system distinguishes between brain and peripheral Rett syndrome-like phenotypes. <i>Human Molecular Genetics</i> , 2016, 25, ddw269.	2.9	57
84	DNA methylation reader MECP2: cell type- and differentiation stage-specific protein distribution. <i>Epigenetics and Chromatin</i> , 2014, 7, 17.	3.9	55
85	Transcription in oocytes of highly methylated rDNA from <i>Xenopus laevis</i> sperm. <i>Nature</i> , 1983, 306, 200-203.	27.8	54
86	Studies of DNA methylation in animals. <i>Journal of Cell Science</i> , 1995, 1995, 37-39.	2.0	50
87	The Dinucleotide CG as a Genomic Signalling Module. <i>Journal of Molecular Biology</i> , 2011, 409, 47-53.	4.2	48
88	Binding of Histone H1 to DNA Is Indifferent to Methylation at CpG Sequences. <i>Journal of Biological Chemistry</i> , 1995, 270, 26473-26481.	3.4	44
89	Non-methylated islands in fish genomes are GC-poor. <i>Nucleic Acids Research</i> , 1991, 19, 1469-1474.	14.5	43
90	Sequence Analysis of Transposable Elements in the Sea Squirt, <i>Ciona intestinalis</i> . <i>Molecular Biology and Evolution</i> , 2000, 17, 1685-1694.	8.9	41

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91	Predicting the total number of human genes. <i>Nature Genetics</i> , 1994, 8, 114-114.	21.4	35
92	DNaseI-hypersensitive sites at promoter-like sequences in the spacer of <i>Xenopus laevis</i> and <i>Xenopus borealis</i> ribosomal DNA. <i>Nucleic Acids Research</i> , 1983, 11, 5361-5380.	14.5	33
93	MBD2-Mediated Transcriptional Repression of the <i>p14^{ARF}</i> Tumor Suppressor Gene in Human Colon Cancer Cells. <i>Pathobiology</i> , 2008, 75, 281-287.	3.8	30
94	Do short, frequent DNA sequence motifs mould the epigenome?. <i>Nature Reviews Molecular Cell Biology</i> , 2016, 17, 257-262.	37.0	30
95	MBD2 Is Required for Correct Spatial Gene Expression in the Gut. <i>Molecular and Cellular Biology</i> , 2007, 27, 4049-4057.	2.3	29
96	SALL4 controls cell fate in response to DNA base composition. <i>Molecular Cell</i> , 2021, 81, 845-858.e8.	9.7	29
97	Il2 transcription unleashed by active DNA demethylation. <i>Nature Immunology</i> , 2003, 4, 208-209.	14.5	27
98	Putting the DNA back into DNA methylation. <i>Nature Genetics</i> , 2011, 43, 1050-1051.	21.4	27
99	Is Gene Amplification RNA-directed?. <i>Nature: New Biology</i> , 1973, 242, 226-230.	4.5	26
100	A unique DNA methylation signature defines a population of IFN γ IL β double-positive T cells during helminth infection. <i>European Journal of Immunology</i> , 2014, 44, 1835-1841.	2.9	26
101	Sequence-specific DNA binding by AT-hook motifs in MeCP2. <i>FEBS Letters</i> , 2016, 590, 2927-2933.	2.8	26
102	Neuronal non-CG methylation is an essential target for MeCP2 function. <i>Molecular Cell</i> , 2021, 81, 1260-1275.e12.	9.7	24
103	Toxicity of overexpressed MeCP2 is independent of HDAC3 activity. <i>Genes and Development</i> , 2018, 32, 1514-1524.	5.9	23
104	Affinity for DNA Contributes to NLS Independent Nuclear Localization of MeCP2. <i>Cell Reports</i> , 2018, 24, 2213-2220.	6.4	23
105	A mutation-led search for novel functional domains in MeCP2. <i>Human Molecular Genetics</i> , 2018, 27, 2531-2545.	2.9	22
106	MBD2 deficiency does not accelerate p53 mediated lymphomagenesis. <i>Oncogene</i> , 2005, 24, 2430-2432.	5.9	18
107	MBD4 deficiency does not increase mutation or accelerate tumorigenesis in mice lacking MMR. <i>Oncogene</i> , 2004, 23, 5693-5696.	5.9	16
108	The origin of the rRNA precursor from <i>Xenopus borealis</i> , analysed in vivo and in vitro. <i>Nucleic Acids Research</i> , 1983, 11, 8167-8181.	14.5	15

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109	Genome Biology: Not Drowning but Waving. <i>Cell</i> , 2013, 154, 951-952.	28.9	12
110	The Selfishness of Law-Abiding Genes. <i>Trends in Genetics</i> , 2020, 36, 8-13.	6.7	11
111	Identification and characterization of a family of mammalian methyl CpG-binding proteins. <i>Genetical Research</i> , 1998, 72, 59-72.	0.9	10
112	Quantitative analysis questions the role of MeCP2 as a global regulator of alternative splicing. <i>PLoS Genetics</i> , 2020, 16, e1009087.	3.5	10
113	Absence of MeCP2 binding to non-methylated GT-rich sequences in vivo. <i>Nucleic Acids Research</i> , 2020, 48, 3542-3552.	14.5	10
114	CpG Islands: A Historical Perspective. <i>Methods in Molecular Biology</i> , 2018, 1766, 3-13.	0.9	9
115	Genetic determinants of the epigenome in development and cancer. <i>Swiss Medical Weekly</i> , 2017, 147, w14523.	1.6	8
116	Mutant weed breaks silence. <i>Nature</i> , 2000, 405, 137-138.	27.8	7
117	DNA Methylation: Mega-Year Inheritance with the Help of Darwin. <i>Current Biology</i> , 2020, 30, R319-R321.	3.9	4
118	CDKL5 deficiency disorder: a pathophysiology of neural maintenance. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	4
119	High-throughput sequencing SELEX for the determination of DNA-binding protein specificities in vitro. <i>STAR Protocols</i> , 2022, 3, 101490.	1.2	4
120	Max Birnstiel 1933–2014: Gene pioneer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 302-303.	7.1	3
121	The major transitions in evolution. <i>Trends in Ecology and Evolution</i> , 1995, 10, 385.	8.7	2
122	An Orphan CpG Island Drives Expression of a let-7 miRNA Precursor with an Important Role in Mouse Development. <i>Epigenomes</i> , 2019, 3, 7.	1.8	2
123	Genetic therapies for neurological disorders. <i>Human Genetics</i> , 2022, 141, 1085-1091.	3.8	2
124	Comparative analysis of potential broad-spectrum neuronal Cre drivers. <i>Wellcome Open Research</i> , 0, 7, 185.	1.8	1
125	Human Genome Evolution. Edited by M. Jackson, T. Strachan and G. Dover. BIOS Scientific Publishers, 1996. 306 + x pages. Price £60.00 (\$120). ISBN 1 859960 95 2.. <i>Genetical Research</i> , 1997, 69, 75-78.	0.9	0
126	God and Human Dignity. <i>International Journal of Public Theology</i> , 2009, 3, 503-504.	0.2	0

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127	Francesca Aran Murphy and Christopher Asprey, eds, <i>Ecumenism Today: The Universal Church in the 21st Century</i> (Aldershot: Ashgate Publishing House, 2008), pp. viii + 220, £50.00, ISBN 978-0-7546-5961-7 (hbk).. <i>International Journal of Public Theology</i> , 2011, 5, 499.	0.2	0
128	Christianity as a World Religion. <i>International Journal of Public Theology</i> , 2011, 5, 260-261.	0.2	0
129	Epigenetics: Discovery. <i>New Scientist</i> , 2013, 217, ii-iii.	0.0	0
130	Michael Amaladoss. 2006. <i>The Asian Jesus</i> . New York: Orbis Books, pp. 180, Pb, £11.99.. <i>Studies in World Christianity</i> , 2008, 14, 182-182.	0.2	0
131	Quantitative analysis questions the role of MeCP2 as a global regulator of alternative splicing. , 2020, 16, e1009087.		0
132	Quantitative analysis questions the role of MeCP2 as a global regulator of alternative splicing. , 2020, 16, e1009087.		0
133	Quantitative analysis questions the role of MeCP2 as a global regulator of alternative splicing. , 2020, 16, e1009087.		0
134	Quantitative analysis questions the role of MeCP2 as a global regulator of alternative splicing. , 2020, 16, e1009087.		0