Brian Hendrich

List of Publications by Year
in descending order

46 papers	9,981 citations	117625 34 h-index	214800 47 g-index
65 all docs	65 docs citations	65 times ranked	10238 citing authors

#	Article	IF	Citations
1	A mouse Mecp2-null mutation causes neurological symptoms that mimic Rett syndrome. Nature Genetics, 2001, 27, 322-326.	21.4	1,401
2	Identification and Characterization of a Family of Mammalian Methyl-CpG Binding Proteins. Molecular and Cellular Biology, 1998, 18, 6538-6547.	2.3	1,216
3	Dynamic Reprogramming of DNA Methylation in the Early Mouse Embryo. Developmental Biology, 2002, 241, 172-182.	2.0	1,099
4	MBD2 is a transcriptional repressor belonging to the MeCP1 histone deacetylase complex. Nature Genetics, 1999, 23, 58-61.	21.4	783
5	3D structures of individual mammalian genomes studied by single-cell Hi-C. Nature, 2017, 544, 59-64.	27.8	691
6	The thymine glycosylase MBD4 can bind to the product of deamination at methylated CpG sites. Nature, 1999, 401, 301-304.	27.8	576
7	The p120 catenin partner Kaiso is a DNA methylation-dependent transcriptional repressor. Genes and Development, 2001, 15, 1613-1618.	5.9	431
8	The methyl-CpG binding domain and the evolving role of DNA methylation in animals. Trends in Genetics, 2003, 19, 269-277.	6.7	348
9	The NuRD component Mbd3 is required for pluripotency of embryonic stem cells. Nature Cell Biology, 2006, 8, 285-292.	10.3	337
10	Enhanced CpG Mutability and Tumorigenesis in MBD4-Deficient Mice. Science, 2002, 297, 403-405.	12.6	294
11	NuRD-mediated deacetylation of H3K27 facilitates recruitment of Polycomb Repressive Complex 2 to direct gene repression. EMBO Journal, 2012, 31, 593-605.	7.8	224
12	NuRD Suppresses Pluripotency Gene Expression to Promote Transcriptional Heterogeneity and Lineage Commitment. Cell Stem Cell, 2012, 10, 583-594.	11.1	207
13	Deficiency of Mbd2 suppresses intestinal tumorigenesis. Nature Genetics, 2003, 34, 145-147.	21.4	181
14	Mbd3, a component of the NuRD co-repressor complex, is required for development of pluripotent cells. Development (Cambridge), 2007, 134, 1123-1132.	2.5	153
15	MBD3/NuRD Facilitates Induction of Pluripotency in a Context-Dependent Manner. Cell Stem Cell, 2014, 15, 102-110.	11.1	152
16	Kaiso-Deficient Mice Show Resistance to Intestinal Cancer. Molecular and Cellular Biology, 2006, 26, 199-208.	2.3	146
17	The Nucleosome Remodeling and Deacetylation Complex Modulates Chromatin Structure at Sites of Active Transcription to Fine-Tune Gene Expression. Molecular Cell, 2018, 71, 56-72.e4.	9.7	132
18	Somatic frameshift mutations in the MBD4 gene of sporadic colon cancers with mismatch repair deficiency. Oncogene, 1999, 18, 8044-8047.	5.9	127

#	Article	IF	Citations
19	Vestiges of a DNA methylation system in Drosophila melanogaster?. Nature Genetics, 1999, 23, 389-390.	21.4	124
20	c-Jun N-terminal phosphorylation antagonises recruitment of the Mbd3/NuRD repressor complex. Nature, 2011, 469, 231-235.	27.8	114
21	Keeping things quiet: Roles of NuRD and Sin3 co-repressor complexes during mammalian development. International Journal of Biochemistry and Cell Biology, 2009, 41, 108-116.	2.8	111
22	Transcriptional repressors: multifaceted regulators of gene expression. Development (Cambridge), 2013, 140, 505-512.	2.5	109
23	Genomic structure and chromosomal mapping of the murine and human Mbd1, Mbd2, Mbd3, and Mbd4 genes. Mammalian Genome, 1999, 10, 906-912.	2.2	100
24	CHD4 in the DNA-damage response and cell cycle progression: not so NuRDy now. Biochemical Society Transactions, 2013, 41, 777-782.	3.4	84
25	Sin3a is essential for the genome integrity and viability of pluripotent cells. Developmental Biology, 2012, 363, 62-73.	2.0	62
26	Constraint of gene expression by chromatin remodelling protein CHD4 facilitates lineage specification. Development (Cambridge), 2015, 142, 2586-97.	2.5	61
27	Mbd2 Contributes to DNA Methylation-Directed Repression of the Xist Gene. Molecular and Cellular Biology, 2007, 27, 3750-3757.	2.3	57
28	The opposing transcriptional functions of Sin3a and c-Myc are required to maintain tissue homeostasis. Nature Cell Biology, 2011, 13, 1395-1405.	10.3	57
29	The Methyl-CpG Binding Proteins Mecp2, Mbd2 and Kaiso Are Dispensable for Mouse Embryogenesis, but Play a Redundant Function in Neural Differentiation. PLoS ONE, 2009, 4, e4315.	2.5	56
30	The methyl binding domain 3/nucleosome remodelling and deacetylase complex regulates neural cell fate determination and terminal differentiation in the cerebral cortex. Neural Development, 2015, 10, 13.	2.4	53
31	Sall4 controls differentiation of pluripotent cells independently of the Nucleosome Remodelling and Deacetylation (NuRD) complex. Development (Cambridge), 2016, 143, 3074-84.	2.5	53
32	A high-resolution map of transcriptional repression. ELife, 2017, 6, .	6.0	47
33	PWWP2A binds distinct chromatin moieties and interacts with an MTA1-specific core NuRD complex. Nature Communications, 2018, 9, 4300.	12.8	46
34	The Nucleosome Remodelling and Deacetylation complex suppresses transcriptional noise during lineage commitment. EMBO Journal, 2019, 38, .	7.8	45
35	Methyl-CpG binding proteins and cancer: are MeCpGs more important than MBDs?. Oncogene, 2002, 21, 5394-5399.	5.9	44
36	MeCP2 in neurons: closing in on the causes of Rett syndrome. Human Molecular Genetics, 2005, 14, R19-R26.	2.9	36

#	Article	IF	Citations
37	The function of chromatin modifiers in lineage commitment and cell fate specification. FEBS Journal, 2015, 282, 1692-1702.	4.7	36
38	MeCP2 Dependent Heterochromatin Reorganization during Neural Differentiation of a Novel Mecp2-Deficient Embryonic Stem Cell Reporter Line. PLoS ONE, 2012, 7, e47848.	2.5	34
39	FRET-enhanced photostability allows improved single-molecule tracking of proteins and protein complexes in live mammalian cells. Nature Communications, 2018, 9, 2520.	12.8	31
40	NuRD-dependent DNA methylation prevents ES cells from accessing a trophectoderm fate. Biology Open, 2012, 1, 341-352.	1.2	21
41	Mbd3/NuRD controls lymphoid cell fate and inhibits tumorigenesis by repressing a B cell transcriptional program. Journal of Experimental Medicine, 2017, 214, 3085-3104.	8.5	21
42	Human genetics: Methylation moves into medicine. Current Biology, 2000, 10, R60-R63.	3.9	20
43	Combining fluorescence imaging with Hi-C to study 3D genome architecture of the same single cell. Nature Protocols, 2018, 13, 1034-1061.	12.0	14
44	Differential regulation of lineage commitment in human and mouse primed pluripotent stem cells by the nucleosome remodelling and deacetylation complex. Stem Cell Research, 2020, 46, 101867.	0.7	11
45	Identification and characterization of a family of mammalian methyl CpG-binding proteins. Genetical Research, 1998, 72, 59-72.	0.9	10
46	Chromatin Remodelling Proteins and Cell Fate Decisions in Mammalian Preimplantation Development. Advances in Anatomy, Embryology and Cell Biology, 2018, 229, 3-14.	1.6	5