Timothy H Bestor

List of Publications by Year
in descending order

38 papers	18,317 citations	185998 28 h-index	360668 35 g-index
38 all docs	38 docs citations	38 times ranked	14828 citing authors

#	Article	IF	Citations
1	Targeted mutation of the DNA methyltransferase gene results in embryonic lethality. Cell, 1992, 69, 915-926.	13.5	3,677
2	EUKARYOTIC CYTOSINE METHYLTRANSFERASES. Annual Review of Biochemistry, 2005, 74, 481-514.	5.0	1,846
3	The DNA methyltransferases of mammals. Human Molecular Genetics, 2000, 9, 2395-2402.	1.4	1,710
4	DNMT3L connects unmethylated lysine 4 of histone H3 to de novo methylation of DNA. Nature, 2007, 448, 714-717.	13.7	1,369
5	Dnmt3L and the Establishment of Maternal Genomic Imprints. Science, 2001, 294, 2536-2539.	6.0	1,257
6	Chromosome instability and immunodeficiency syndrome caused by mutations in a DNA methyltransferase gene. Nature, 1999, 402, 187-191.	13.7	1,056
7	Meiotic catastrophe and retrotransposon reactivation in male germ cells lacking Dnmt3L. Nature, 2004, 431, 96-99.	13.7	1,043
8	A piRNA Pathway Primed by Individual Transposons Is Linked to De Novo DNA Methylation in Mice. Molecular Cell, 2008, 31, 785-799.	4.5	1,029
9	Transcription of IAP endogenous retroviruses is constrained by cytosine methylation. Nature Genetics, 1998, 20, 116-117.	9.4	1,012
10	A targeting sequence directs DNA methyltransferase to sites of DNA replication in mammalian nuclei. Cell, 1992, 71, 865-873.	13.5	946
11	Cloning and sequencing of a cDNA encoding DNA methyltransferase of mouse cells. Journal of Molecular Biology, 1988, 203, 971-983.	2.0	840
12	Structure of DNMT1-DNA Complex Reveals a Role for Autoinhibition in Maintenance DNA Methylation. Science, 2011, 331, 1036-1040.	6.0	363
13	DNA methylation and DNA methyltransferases. Epigenetics and Chromatin, 2017, 10, 23.	1.8	360
14	Creation of genomic methylation patterns. Nature Genetics, 1996, 12, 363-367.	9.4	301
15	Notes on the role of dynamic DNA methylation in mammalian development. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6796-6799.	3.3	200
16	Chromatin and sequence features that define the fine and gross structure of genomic methylation patterns. Genome Research, 2010, 20, 972-980.	2.4	160
17	Methylation meets acetylation. Nature, 1998, 393, 311-312.	13.7	148
18	Cytosine methylation targetted to pre-determined sequences. Nature Genetics, 1997, 17, 376-378.	9.4	146

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19	FBXL10 protects Polycomb-bound genes from hypermethylation. Nature Genetics, 2015, 47, 479-485.	9.4	136
20	Cytosine methylation mediates sexual conflict. Trends in Genetics, 2003, 19, 185-190.	2.9	115
21	The Host Defence Function of Genomic Methylation Patterns. Novartis Foundation Symposium, 1998, 214, 187-199.	1.2	70
22	DNA methyltransferase in normal andDnmtn/Dnmtn mouse embryos. Developmental Dynamics, 1996, 206, 239-247.	0.8	65
23	Transposons Reanimated in Mice. Cell, 2005, 122, 322-325.	13.5	61
24	Biological Functions of DNA Methyltransferase 1 Require Its Methyltransferase Activity. Molecular and Cellular Biology, 2007, 27, 3891-3899.	1.1	61
25	Sex brings transposons and genomes into conflict. , 1999, 107, 289-295.		58
26	Imprinting errors and developmental asymmetry. Philosophical Transactions of the Royal Society B: Biological Sciences, 2003, 358, 1411-1415.	1.8	58
27	Unanswered Questions about the Role of Promoter Methylation in Carcinogenesis. Annals of the New York Academy of Sciences, 2003, 983, 22-27.	1.8	51
28	BAH domains and a histone-like motif in DNA methyltransferase 1 (DNMT1) regulate de novo and maintenance methylation in vivo. Journal of Biological Chemistry, 2018, 293, 19466-19475.	1.6	45
29	Protein O-Glucosyltransferase 1 (POGLUT1) Promotes Mouse Gastrulation through Modification of the Apical Polarity Protein CRUMBS2. PLoS Genetics, 2015, 11, e1005551.	1.5	34
30	Methylation-directed glycosylation of chromatin factors represses retrotransposon promoters. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14292-14298.	3.3	28
31	Ectopic DNMT3L Triggers Assembly of a Repressive Complex for Retroviral Silencing in Somatic Cells. Journal of Virology, 2014, 88, 10680-10695.	1.5	26
32	Abnormal X chromosome inactivation and sex-specific gene dysregulation after ablation of FBXL10. Epigenetics and Chromatin, 2016, 9, 22.	1.8	19
33	Independent functions of DNMT1 and USP7 at replication foci. Epigenetics and Chromatin, 2018, 11, 9.	1.8	17
34	Methylation Abnormalities in Mammary Carcinoma: The Methylation Suicide Hypothesis. Journal of Cancer Therapy, 2014, 05, 1311-1324.	0.1	5
35	Photochemical conversion of a cytidine derivative to a thymidine analogvia[2+2]-cycloaddition. Photochemical and Photobiological Sciences, 2018, 17, 1049-1055.	1.6	3
36	Reply to Wilkinson: Minor role of programmed methylation and demethylation in mammalian development. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2117-E2117.	3.3	1

#	Article	IF	Citations
37	DNA methyltransferase in normal and Dnmtn/Dnmtn mouse embryos. , 1996, 206, 239.		1
38	Specific Methylation of tRNAAsp by a DNA Methyltransferase Homologue. FASEB Journal, 2007, 21, A206.	0.2	0