Albert Jeltsch

List of Publications by Year
in descending order

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280	19,010	13827 67	15683 125
papers	citations	h-index	g-index

298	298	298	16946
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cyclical DNA methylation of a transcriptionally active promoter. Nature, 2008, 452, 45-50.	13.7	830
2	Structure of Dnmt3a bound to Dnmt3L suggests a model for de novo DNA methylation. Nature, 2007, 449, 248-251.	13.7	717
3	A nomenclature for restriction enzymes, DNA methyltransferases, homing endonucleases and their genes. Nucleic Acids Research, 2003, 31, 1805-1812.	6.5	634
4	Structure and Function of Mammalian DNA Methyltransferases. ChemBioChem, 2011, 12, 206-222.	1.3	561
5	Beyond Watson and Crick: DNA Methylation and Molecular Enzymology of DNA Methyltransferases. ChemBioChem, 2002, 3, 274-293.	1.3	559
6	Structure and function of type II restriction endonucleases. Nucleic Acids Research, 2001, 29, 3705-3727.	6.5	533
7	Biochemistry and biology of mammalian DNA methyltransferases. Cellular and Molecular Life Sciences, 2004, 61, 2571-2587.	2.4	462
8	The Dnmt1 DNA-(cytosine-C5)-methyltransferase Methylates DNA Processively with High Preference for Hemimethylated Target Sites. Journal of Biological Chemistry, 2004, 279, 48350-48359.	1.6	452
9	The Dnmt3a PWWP Domain Reads Histone 3 Lysine 36 Trimethylation and Guides DNA Methylation. Journal of Biological Chemistry, 2010, 285, 26114-26120.	1.6	445
10	New concepts in DNA methylation. Trends in Biochemical Sciences, 2014, 39, 310-318.	3.7	361
11	Chromatin methylation activity of Dnmt3a and Dnmt3a/3L is guided by interaction of the ADD domain with the histone H3 tail. Nucleic Acids Research, 2010, 38, 4246-4253.	6.5	330
12	Recognition and Cleavage of DNA by Type-II Restriction Endonucleases. FEBS Journal, 1997, 246, 1-22.	0.2	311
13	Protein lysine methyltransferase G9a acts on non-histone targets. Nature Chemical Biology, 2008, 4, 344-346.	3.9	309
14	Mechanism of Stimulation of Catalytic Activity of Dnmt3A and Dnmt3B DNA-(cytosine-C5)-methyltransferases by Dnmt3L. Journal of Biological Chemistry, 2005, 280, 13341-13348.	1.6	250
15	The activity of the murine DNA methyltransferase Dnmt1 is controlled by interaction of the catalytic domain with the N-terminal part of the enzyme leading to an allosteric activation of the enzyme after binding to methylated DNA. Journal of Molecular Biology, 2001, 309, 1189-1199.	2.0	228
16	Efficient targeted DNA methylation with chimeric dCas9â€“Dnmt3aâ€“Dnmt3L methyltransferase. Nucleic Acids Research, 2017, 45, 1703-1713.	6.5	224
17	Dnmt3a and Dnmt1 functionally cooperate during de novo methylation of DNA. FEBS Journal, 2002, 269, 4981-4984.	0.2	221
18	Enzymatic properties of recombinant Dnmt3a DNA methyltransferase from mouse: the enzyme modifies DNA in a non-processive manner and also methylates non-CpA sites. Journal of Molecular Biology, 2001, 309, 1201-1208.	2.0	217

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19	BISMA - Fast and accurate bisulfite sequencing data analysis of individual clones from unique and repetitive sequences. BMC Bioinformatics, 2010, 11, 230.	1.2	215
20	The Human Dnmt2 Has Residual DNA-(Cytosine-C5) Methyltransferase Activity. Journal of Biological Chemistry, 2003, 278, 31717-31721.	1.6	197
21	Accuracy of DNA methylation pattern preservation by the Dnmt1 methyltransferase. Nucleic Acids Research, 2006, 34, 1182-1188.	6.5	186
22	Molecular Enzymology of the Catalytic Domains of the Dnmt3a and Dnmt3b DNA Methyltransferases. Journal of Biological Chemistry, 2002, 277, 20409-20414.	1.6	177
23	Chromatin Targeting of de Novo DNA Methyltransferases by the PWWP Domain. Journal of Biological Chemistry, 2004, 279, 25447-25454.	1.6	176
24	DNA of Drosophila melanogaster contains 5-methylcytosine. EMBO Journal, 2000, 19, 6918-6923.	3.5	173
25	Epigenome Editing: State of the Art, Concepts, and Perspectives. Trends in Genetics, 2016, 32, 101-113.	2.9	157
26	Allosteric control of mammalian DNA methyltransferases â€“ a new regulatory paradigm. Nucleic Acids Research, 2016, 44, 8556-8575.	6.5	156
27	Mechanism and biological role of Dnmt2 in Nucleic Acid Methylation. RNA Biology, 2017, 14, 1108-1123.	1.5	156
28	Human DNMT2 methylates tRNA^{Asp} molecules using a DNA methyltransferase-like catalytic mechanism. Rna, 2008, 14, 1663-1670.	1.6	153
29	Molecular Enzymology of Mammalian DNA Methyltransferases. , 2006, 301, 203-225.		151
30	Methylation of DNA Ligase 1 by G9a/GLP Recruits UHRF1 to Replicating DNA and Regulates DNA Methylation. Molecular Cell, 2017, 67, 550-565.e5.	4.5	151
31	Specificity Analysis-Based Identification of New Methylation Targets of the SET7/9 Protein Lysine Methyltransferase. Chemistry and Biology, 2011, 18, 111-120.	6.2	149
32	DNA Methylation Analysis of Chromosome 21 Gene Promoters at Single Base Pair and Single Allele Resolution. PLoS Genetics, 2009, 5, e1000438.	1.5	143
33	The ATRX-ADD domain binds to H3 tail peptides and reads the combined methylation state of K4 and K9. Human Molecular Genetics, 2011, 20, 2195-2203.	1.4	140
34	Profound Flanking Sequence Preference of Dnmt3a and Dnmt3b Mammalian DNA Methyltransferases Shape the Human Epigenome. Journal of Molecular Biology, 2005, 348, 1103-1112.	2.0	139
35	Targeted Methylation and Gene Silencing of VEGF-A in Human Cells by Using a Designed Dnmt3aâ€“Dnmt3L Single-Chain Fusion Protein with Increased DNA Methylation Activity. Journal of Molecular Biology, 2013, 425, 479-491.	2.0	138
36	Horizontal gene transfer contributes to the wide distribution and evolution of type II restriction-modification systems. Journal of Molecular Evolution, 1996, 42, 91-96.	0.8	137

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37	Chimeric DNA methyltransferases target DNA methylation to specific DNA sequences and repress expression of target genes. Nucleic Acids Research, 2007, 35, 100-112.	6.5	126
38	On the Enzymatic Properties of Dnmt1: Specificity, Processivity, Mechanism of Linear Diffusion and Allosteric Regulation of the Enzyme. Epigenetics, 2006, 1, 63-66.	1.3	125
39	Function and disruption of DNA Methyltransferase 3a cooperative DNA binding and nucleoprotein filament formation. Nucleic Acids Research, 2012, 40, 569-580.	6.5	124
40	Mammalian DNA methyltransferases: new discoveries and open questions. Biochemical Society Transactions, 2018, 46, 1191-1202.	1.6	122
41	Histone tails regulate DNA methylation by allosterically activating de novo methyltransferase. Cell Research, 2011, 21, 1172-1181.	5.7	117
42	Structure and Substrate Recognition of the Escherichia coli DNA Adenine Methyltransferase. Journal of Molecular Biology, 2006, 358, 559-570.	2.0	115
43	Formation of nucleoprotein filaments by mammalian DNA methyltransferase Dnmt3a in complex with regulator Dnmt3L. Nucleic Acids Research, 2008, 36, 6656-6663.	6.5	109
44	A Fast and Accurate Enzyme-Linked Immunosorbent Assay for the Determination of the DNA Cleavage Activity of Restriction Endonucleases. Analytical Biochemistry, 1993, 213, 234-240.	1.1	108
45	The UHRF1 Protein Stimulates the Activity and Specificity of the Maintenance DNA Methyltransferase DNMT1 by an Allosteric Mechanism. Journal of Biological Chemistry, 2014, 289, 4106-4115.	1.6	107
46	Maintenance of species identity and controlling speciation of bacteria: a new function for restriction/modification systems?. Gene, 2003, 317, 13-16.	1.0	105
47	On the Evolutionary Origin of Eukaryotic DNA Methyltransferases and Dnmt2. PLoS ONE, 2011, 6, e28104.	1.1	103
48	Two substrates are better than one: dual specificities for Dnmt2 methyltransferases. Trends in Biochemical Sciences, 2006, 31, 306-308.	3.7	100
49	Detailed specificity analysis of antibodies binding to modified histone tails with peptide arrays. Epigenetics, 2011, 6, 256-263.	1.3	97
50	Pausing of the Restriction Endonuclease EcoRI during Linear Diffusion on DNA. Biochemistry, 1994, 33, 10215-10219.	1.2	96
51	Mechanistic Insights on the Inhibition of C5 DNA Methyltransferases by Zebularine. PLoS ONE, 2010, 5, e12388.	1.1	96
52	The Escherichia coli Dam DNA Methyltransferase Modifies DNA in a Highly Processive Reaction. Journal of Molecular Biology, 2002, 319, 1085-1096.	2.0	95
53	Comprehensive structure-function characterization of DNMT3B and DNMT3A reveals distinctive de novo DNA methylation mechanisms. Nature Communications, 2020, 11, 3355.	5.8	94
54	Transition from Nonspecific to Specific DNA Interactions along the Substrate-Recognition Pathway of Dam Methyltransferase. Cell, 2005, 121, 349-361.	13.5	90

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55	DNA methyltransferase inhibitors in cancer: a chemical and therapeutic patent overview and selected clinical studies. Expert Opinion on Therapeutic Patents, 2012, 22, 1427-1442.	2.4	90
56	Oligomerization and Binding of the Dnmt3a DNA Methyltransferase to Parallel DNA Molecules. Journal of Biological Chemistry, 2011, 286, 24200-24207.	1.6	89
57	Biotin-Avidin Microplate Assay for the Quantitative Analysis of Enzymatic Methylation of DNA by DNA Methyltransferases. Biological Chemistry, 2000, 381, 269-72.	1.2	87
58	Mechanism of inhibition of DNA methyltransferases by cytidine analogs in cancer therapy. Cancer Biology and Therapy, 2004, 3, 1062-1068.	1.5	85
59	Mutational Analysis of the Catalytic Domain of the Murine Dnmt3a DNA-(cytosine) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 582	2.0	83
60	The dual methyltransferase METTL13 targets N terminus and Lys55 of eEF1A and modulates codon-specific translation rates. Nature Communications, 2018, 9, 3411.	5.8	81
61	Synthesis and Evaluation of Analogues of N-Phthaloyl-<scp>l</scp>-tryptophan (RG108) as Inhibitors of DNA Methyltransferase 1. Journal of Medicinal Chemistry, 2014, 57, 421-434.	2.9	80
62	De Novo Methylation of Nucleosomal DNA by the Mammalian Dnmt1 and Dnmt3A DNA Methyltransferases. Biochemistry, 2005, 44, 9899-9904.	1.2	78
63	Non-imprinted allele-specific DNA methylation on human autosomes. Genome Biology, 2009, 10, R138.	13.9	77
64	Targeted epigenome editing of an endogenous locus with chromatin modifiers is not stably maintained. Epigenetics and Chromatin, 2015, 8, 12.	1.8	77
65	Circular Permutations in the Molecular Evolution of DNA Methyltransferases. Journal of Molecular Evolution, 1999, 49, 161-164.	0.8	76
66	A Fluorescenceâ€Based Supramolecular Tandem Assay for Monitoring Lysine Methyltransferase Activity in Homogeneous Solution. Chemistry - A European Journal, 2012, 18, 3521-3528.	1.7	74
67	Specificity of Dnmt1 for Methylation of Hemimethylated CpG Sites Resides in Its Catalytic Domain. Chemistry and Biology, 2012, 19, 572-578.	6.2	73
68	Application of Celluspots peptide arrays for the analysis of the binding specificity of epigenetic reading domains to modified histone tails. BMC Biochemistry, 2011, 12, 48.	4.4	72
69	H3K14ac is linked to methylation of H3K9 by the triple Tudor domain of SETDB1. Nature Communications, 2017, 8, 2057.	5.8	72
70	Evolutionary analysis indicates that DNA alkylation damage is a byproduct of cytosine DNA methyltransferase activity. Nature Genetics, 2018, 50, 452-459.	9.4	71
71	Pmt1, a Dnmt2 homolog in Schizosaccharomyces pombe, mediates tRNA methylation in response to nutrient signaling. Nucleic Acids Research, 2012, 40, 11648-11658.	6.5	70
72	Catalytic Mechanism of DNA-(cytosine-C5)-methyltransferases Revisited: Covalent Intermediate Formation is not Essential for Methyl Group Transfer by the Murine Dnmt3a Enzyme. Journal of Molecular Biology, 2003, 329, 675-684.	2.0	69

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73	C5â€ÐNA Methyltransferase Inhibitors: From Screening to Effects on Zebrafish Embryo Development. ChemBioChem, 2011, 12, 1337-1345.	1.3	69
74	Analysis of the Substrate Specificity of the Dim-5 Histone Lysine Methyltransferase Using Peptide Arrays. Chemistry and Biology, 2008, 15, 5-11.	6.2	68
75	On the catalytic mechanism ofEcoRI andEcoRV A detailed proposal based on biochemical results, structural data and molecular modelling. FEBS Letters, 1992, 304, 4-8.	1.3	67
76	Regulation of DNA Methylation Patterns by CK2-Mediated Phosphorylation of Dnmt3a. Cell Reports, 2014, 8, 743-753.	2.9	66
77	Molecular enzymology of the Eco RV DNA-(adenine-N6)-methyltransferase: kinetics of DNA binding and bending, kinetic mechanism and linear diffusion of the enzyme on DNA. Journal of Molecular Biology, 2000, 303, 93-110.	2.0	65
78	Functional Roles of Conserved Amino Acid Residues in DNA Methyltransferases Investigated by Site-directed Mutagenesis of theEcoRV Adenine-N6-methyltransferase. Journal of Biological Chemistry, 1998, 273, 17333-17342.	1.6	64
79	Phylogeny of Methylomes. Science, 2010, 328, 837-838.	6.0	64
80	Kinetic Characterization of Linear Diffusion of the Restriction EndonucleaseEcoRV on DNAâ€. Biochemistry, 1998, 37, 2160-2169.	1.2	63
81	Site-Directed Mutagenesis by Polymerase Chain Reaction. , 2002, 182, 85-94.		63
82	Cytosine methylation of tRNA-Asp by DNMT2 has a role in translation of proteins containing poly-Asp sequences. Cell Discovery, 2015, 1, 15010.	3.1	63
83	Impact of 7,8-Dihydro-8-oxoguanine on Methylation of the CpG Site by Dnmt3a. Biochemistry, 2009, 48, 1361-1368.	1.2	61
84	DNA Methylation Analysis by Bisulfite Conversion, Cloning, and Sequencing of Individual Clones. Methods in Molecular Biology, 2009, 507, 177-187.	0.4	61
85	DNA Binding Specificity of the EcoRV Restriction Endonuclease Is Increased by Mg2+ Binding to a Metal Ion Binding Site Distinct from the Catalytic Center of the Enzyme. Biochemistry, 1995, 34, 6239-6246.	1.2	60
86	Targeted Methylation of the Epithelial Cell Adhesion Molecule (EpCAM) Promoter to Silence Its Expression in Ovarian Cancer Cells. PLoS ONE, 2014, 9, e87703.	1.1	60
87	Probing the Indirect Readout of the Restriction Enzyme EcoRV. Journal of Biological Chemistry, 1996, 271, 5565-5573.	1.6	59
88	On the Divalent Metal Ion Dependence of DNA Cleavage by Restriction Endonucleases of the EcoRI Family. Journal of Molecular Biology, 2009, 393, 140-160.	2.0	59
89	Modular fluorescence complementation sensors for live cell detection of epigenetic signals at endogenous genomic sites. Nature Communications, 2017, 8, 649.	5.8	58
90	Does the Restriction EndonucleaseEcoRV Employ a Two-Metal-Ion Mechanism for DNA Cleavage?â€. Biochemistry, 1997, 36, 11389-11401.	1.2	56

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91	Bisulfite sequencing Data Presentation and Compilation (BDPC) web server--a useful tool for DNA methylation analysis. Nucleic Acids Research, 2008, 36, e34-e34.	6.5	56
92	The inhibition of the mammalian DNA methyltransferase 3a (Dnmt3a) by dietary black tea and coffee polyphenols. BMC Biochemistry, 2011, 12, 16.	4.4	56
93	Target recognition, RNA methylation activity and transcriptional regulation of the Dictyostelium discoideum Dnmt2-homologue (DnmA). Nucleic Acids Research, 2013, 41, 8615-8627.	6.5	56
94	Molecular Processes Connecting DNA Methylation Patterns with DNA Methyltransferases and Histone Modifications in Mammalian Genomes. Genes, 2018, 9, 566.	1.0	55
95	Evidence for an evolutionary relationship among type-II restriction endonucleases. Gene, 1995, 160, 7-16.	1.0	54
96	The methyltransferase METTL9 mediates pervasive 1-methylhistidine modification in mammalian proteomes. Nature Communications, 2021, 12, 891.	5.8	54
97	Mutations in DNA methyltransferase DNMT3B in ICF syndrome affect its regulation by DNMT3L. Human Molecular Genetics, 2006, 15, 1375-1385.	1.4	52
98	Application of histone modification-specific interaction domains as an alternative to antibodies. Genome Research, 2014, 24, 1842-1853.	2.4	52
99	Substrate Specificity Analysis and Novel Substrates of the Protein Lysine Methyltransferase NSD1. Chemistry and Biology, 2014, 21, 226-237.	6.2	52
100	On the Substrate Specificity of DNA Methyltransferases. Journal of Biological Chemistry, 1999, 274, 19538-19544.	1.6	51
101	The Application of Next Generation Sequencing in DNA Methylation Analysis. Genes, 2010, 1, 85-101.	1.0	51
102	Rapid Synthesis of New DNMT Inhibitors Derivatives of Procainamide. ChemBioChem, 2012, 13, 157-165.	1.3	51
103	Identification of Novel Inhibitors of DNA Methylation by Screening of a Chemical Library. ACS Chemical Biology, 2013, 8, 543-548.	1.6	51
104	The RNA methyltransferase Dnmt2 methylates DNA in the structural context of a tRNA. RNA Biology, 2017, 14, 1241-1251.	1.5	51
105	Developing a programmed restriction endonuclease for highly specific DNA cleavage. Nucleic Acids Research, 2005, 33, 7039-7047.	6.5	49
106	Design, Synthesis and Biological Evaluation of 4â€Aminoâ€Nâ€(4â€aminophenyl)benzamide Analogues of Quinolineâ€Based SGIâ€1027 as Inhibitors of DNA Methylation. ChemMedChem, 2014, 9, 590-601.	1.6	49
107	Enzymology of Mammalian DNA Methyltransferases. Advances in Experimental Medicine and Biology, 2016, 945, 87-122.	0.8	49
108	Mutations of R882 change flanking sequence preferences of the DNA methyltransferase DNMT3A and cellular methylation patterns. Nucleic Acids Research, 2019, 47, 11355-11367.	6.5	49

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109	Kinetics of methylation and binding of DNA by the Eco RV adenine-N 6 methyltransferase 1 1Edited by J Karn. Journal of Molecular Biology, 1998, 275, 747-758.	2.0	48
110	PWWP-DOMAIN INTERACTOR OF POLYCOMBS1 Interacts with Polycomb-Group Proteins and Histones and Regulates Arabidopsis Flowering and Development. Plant Cell, 2018, 30, 117-133.	3.1	48
111	DNA sequence-dependent activity and base flipping mechanisms of DNMT1 regulate genome-wide DNA methylation. Nature Communications, 2020, 11, 3723.	5.8	48
112	Cocaine-Induced Chromatin Modifications Associate With Increased Expression and Three-Dimensional Looping of Auts2. Biological Psychiatry, 2017, 82, 794-805.	0.7	47
113	H3K36me2/3 Binding and DNA Binding of the DNA Methyltransferase DNMT3A PWWP Domain Both Contribute to its Chromatin Interaction. Journal of Molecular Biology, 2019, 431, 5063-5074.	2.0	47
114	On the possibilities and limitations of rational protein design to expand the specificity of restriction enzymes: a case study employing EcoRV as the target. Protein Engineering, Design and Selection, 2000, 13, 275-281.	1.0	46
115	Activity and specificity of the human SUV39H2 protein lysine methyltransferase. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2015, 1849, 55-63.	0.9	45
116	Mutational Analysis of the Function of Gln115 in the EcoRI Restriction Endonuclease, a Critical Amino Acid for Recognition of the Inner Thymidine Residue in the Sequence -GAATTC- and for Coupling Specific DNA Binding to Catalysis. Journal of Molecular Biology, 1993, 229, 221-234.	2.0	44
117	Site-directed mutagenesis in the catalytic center of the restriction endonuclease EcoRI. Gene, 1995, 157, 113-118.	1.0	44
118	Cooperative DNA Binding and Protein/DNA Fiber Formation Increases the Activity of the Dnmt3a DNA Methyltransferase. Journal of Biological Chemistry, 2014, 289, 29602-29613.	1.6	44
119	The DNMT3A R882H mutant displays altered flanking sequence preferences. Nucleic Acids Research, 2018, 46, 3130-3139.	6.5	44
120	Towards the design of rare cutting restriction endonucleases: using directed evolution to generate variants of EcoRV differing in their substrate specificity by two orders of magnitude. Journal of Molecular Biology, 1998, 283, 59-69.	2.0	41
121	Somatic cancer mutations in the DNMT2 tRNA methyltransferase alter its catalytic properties. Biochimie, 2015, 112, 66-72.	1.3	41
122	DNA Methyltransferase Assays. Methods in Molecular Biology, 2011, 791, 157-177.	0.4	39
123	Specificity of protein lysine methyltransferases and methods for detection of lysine methylation of non-histone proteins. Molecular BioSystems, 2008, 4, 1186.	2.9	38
124	Evidence for substrate-assisted catalysis in the DNA cleavage of several restriction endonucleases. Gene, 1995, 157, 157-162.	1.0	36
125	Phosphorylation of Serine-515 Activates the Mammalian Maintenance Methyltransferase Dnmt1. Epigenetics, 2007, 2, 155-160.	1.3	36
126	Somatic cancer mutations in the MLL3-SET domain alter the catalytic properties of the enzyme. Clinical Epigenetics, 2015, 7, 36.	1.8	36

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127	Recognition of nonproline N-terminal residues by the Pro/N-degron pathway. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14158-14167.	3.3	36
128	The SET8 H4K20 protein lysine methyltransferase has a long recognition sequence covering seven amino acid residues. Biochimie, 2012, 94, 2212-2218.	1.3	35
129	Substrate Specificity of the HEMK2 Protein Glutamine Methyltransferase and Identification of Novel Substrates. Journal of Biological Chemistry, 2016, 291, 6124-6133.	1.6	35
130	Role of somatic cancer mutations in human protein lysine methyltransferases. Biochimica Et Biophysica Acta: Reviews on Cancer, 2014, 1846, 366-379.	3.3	34
131	Design of synthetic epigenetic circuits featuring memory effects and reversible switching based on DNA methylation. Nature Communications, 2017, 8, 15336.	5.8	34
132	Chromatin-dependent allosteric regulation of DNMT3A activity by MeCP2. Nucleic Acids Research, 2018, 46, 9044-9056.	6.5	34
133	Engineering of Effector Domains for Targeted DNA Methylation with Reduced Off-Target Effects. International Journal of Molecular Sciences, 2020, 21, 502.	1.8	34
134	Mutational Analysis of Target Base Flipping by the EcoRV Adenine-N6 DNA Methyltransferase. Journal of Molecular Biology, 1999, 285, 1121-1130.	2.0	32
135	Stopped-flow and Mutational Analysis of Base Flipping by the Escherichia coli Dam DNA-(adenine-N6)-methyltransferase. Journal of Molecular Biology, 2004, 341, 443-454.	2.0	32
136	Mechanisms and Biological Roles of DNA Methyltransferases and DNA Methylation: From Past Achievements to Future Challenges. Advances in Experimental Medicine and Biology, 2016, 945, 1-17.	0.8	32
137	Protein engineering of the restriction endonuclease EcoRV. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1994, 1219, 73-80.	2.4	31
138	The Cytosine N4-Methyltransferase M.PvuII Also Modifies Adenine Residues. Biological Chemistry, 2001, 382, 707-10.	1.2	31
139	Continuous enzymatic assay for histone lysine methyltransferases. BioTechniques, 2007, 43, 602-608.	0.8	31
140	Reading and writing DNA methylation. Nature Structural and Molecular Biology, 2008, 15, 1003-1004.	3.6	31
141	Targeted Mutagenesis Results in an Activation of DNA Methyltransferase 1 and Confirms an Autoinhibitory Role of its RFTS Domain. ChemBioChem, 2014, 15, 743-748.	1.3	31
142	Globally altered epigenetic landscape and delayed osteogenic differentiation in H3.3-G34W-mutant giant cell tumor of bone. Nature Communications, 2020, 11, 5414.	5.8	31
143	DNA fromAspergillus flavuscontains 5-methylcytosine. FEMS Microbiology Letters, 2001, 205, 151-155.	0.7	30
144	Plasmid DNA Cleavage byMunI Restriction Enzyme:Â Single-Turnover and Steady-State Kinetic Analysisâ€. Biochemistry, 1999, 38, 4028-4036.	1.2	29

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145	Automated Purification of His₆-Tagged Proteins Allows Exhaustive Screening of Libraries Generated by Random Mutagenesis. BioTechniques, 2000, 29, 338-342.	0.8	29
146	Application of DNA methyltransferases in targeted DNA methylation. Applied Microbiology and Biotechnology, 2007, 75, 1233-1240.	1.7	29
147	Approaches to Enzyme and Substrate Design of the Murine Dnmt3a DNA Methyltransferase. ChemBioChem, 2011, 12, 1589-1594.	1.3	29
148	Oxygen, epigenetic signaling, and the evolution of early life. Trends in Biochemical Sciences, 2013, 38, 172-176.	3.7	29
149	Specificity of the SUV4â€“20H1 and SUV4â€“20H2 protein lysine methyltransferases and methylation of novel substrates. Journal of Molecular Biology, 2016, 428, 2344-2358.	2.0	29
150	Protein engineering of the restriction endonuclease EcoRV . Structure-guided design of enzyme variants that recognize the base pairs flanking the recognition site. FEBS Journal, 1998, 258, 184-191.	0.2	28
151	Avidin plate assay system for enzymatic characterization of a histone lysine methyltransferase. Analytical Biochemistry, 2005, 342, 287-291.	1.1	28
152	A Continuous Protein Methyltransferase (G9a) Assay for Enzyme Activity Measurement and Inhibitor Screening. Journal of Biomolecular Screening, 2009, 14, 1129-1133.	2.6	27
153	The Dnmt2 RNA methyltransferase homolog of Geobacter sulfurreducens specifically methylates tRNA-Glu. Nucleic Acids Research, 2014, 42, 6487-6496.	6.5	27
154	Application of dual reading domains as novel reagents in chromatin biology reveals a new H3K9me3 and H3K36me2/3 bivalent chromatin state. Epigenetics and Chromatin, 2017, 10, 45.	1.8	27
155	Beyond Watson and Crick: DNA Methylation and Molecular Enzymology of DNA Methyltransferases. ChemBioChem, 2002, 3, 382.	1.3	26
156	The SUV39H1 Protein Lysine Methyltransferase Methylates Chromatin Proteins Involved in Heterochromatin Formation and VDJ Recombination. ACS Chemical Biology, 2017, 12, 958-968.	1.6	26
157	The DNMT3A R882H mutation does not cause dominant negative effects in purified mixed DNMT3A/R882H complexes. Scientific Reports, 2018, 8, 13242.	1.6	26
158	Detection and analysis of enzymatic DNA methylation of oligonucleotide substrates by matrix-assisted laser desorption ionization time-of-flight mass spectrometry. Analytical Biochemistry, 2003, 313, 160-166.	1.1	25
159	Reversible Inactivation of the CG Specific SssI DNA (Cytosine-C5)-Methyltransferase with a Photocleavable Protecting Group. ChemBioChem, 2007, 8, 202-207.	1.3	25
160	Specificity Analysis of Protein Lysine Methyltransferases Using SPOT Peptide Arrays. Journal of Visualized Experiments, 2014, , e52203.	0.2	25
161	A fluorimetric assay for on-line detection of DNA cleavage by restriction endonucleases. Journal of Biotechnology, 2002, 96, 185-191.	1.9	24
162	Mechanistic details of the DNA recognition by the Dnmt1 DNA methyltransferase. FEBS Letters, 2012, 586, 1821-1823.	1.3	24

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163	The Tudor Domain of the PHD Finger Protein 1 Is a Dual Reader of Lysine Trimethylation at Lysine 36 of Histone H3 and Lysine 27 of Histone Variant H3t. Journal of Molecular Biology, 2014, 426, 1651-1660.	2.0	24
164	Hijacking DNA methyltransferase transition state analogues to produce chemical scaffolds for PRMT inhibitors. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170072.	1.8	24
165	Deoxyribonucleic Acid Methyl Transferases 3a and 3b Associate with the Nuclear Orphan Receptor COUP-TFI during Gene Activation. Molecular Endocrinology, 2007, 21, 2085-2098.	3.7	23
166	Specificity of DNA triple helix formation analyzed by a FRET assay. , 2002, 3, 27.		22
167	The Caulobacter crescentus DNA-(adenine-N6)-methyltransferase CcrM methylates DNA in a distributive manner. Nucleic Acids Research, 2012, 40, 1708-1716.	6.5	22
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