

Establishing, maintaining and modifying DNA methylation

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Genome-Wide Association of Histone H3 Lysine Nine Methylation with CHG DNA Methylation in <i>Arabidopsis thaliana</i> . PLoS ONE, 2008, 3, e3156.	1.1	293
3	DNA methylation reprogramming during plant sexual reproduction?. Trends in Genetics, 2010, 26, 394-399.	2.9	42
4	A Protein Complex Required for Polymerase V Transcripts and RNA- Directed DNA Methylation in <i>Arabidopsis</i> . Current Biology, 2010, 20, 951-956.	1.8	195
5	Evolution of Eukaryotic DNA Methylation and the Pursuit of Safer Sex. Current Biology, 2010, 20, R780-R785.	1.8	160
6	Nature or nurture: Let food be your epigenetic medicine in chronic inflammatory disorders. Biochemical Pharmacology, 2010, 80, 1816-1832.	2.0	121
7	Nucleolar dominance and ribosomal RNA gene silencing. Current Opinion in Cell Biology, 2010, 22, 351-356.	2.6	106
8	Involvement of a Jumonjiâ€ domainâ€containing histone demethylase in DRM2â€mediated maintenance of DNA methylation. EMBO Reports, 2010, 11, 950-955.	2.0	78
9	Impact of nucleosome dynamics and histone modifications on cell proliferation during <i>Arabidopsis</i> development. Heredity, 2010, 105, 80-91.	1.2	28
10	Repeat elements and the <i>Arabidopsis</i> DNA methylation landscape. Heredity, 2010, 105, 14-23.	1.2	80
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17	Confining euchromatin/heterochromatin territory: <i>jumonji</i> crosses the line. Genes and Development, 2010, 24, 1465-1478.	2.7	82
18	Domain structure of the DEMETER 5-methylcytosine DNA glycosylase. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19225-19230.	3.3	66
19	Induced Pluripotent Stem Cells Can Be Used to Model the Genomic Imprinting Disorder Prader-Willi Syndrome. Journal of Biological Chemistry, 2010, 285, 40303-40311.	1.6	96

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21	Local DNA hypomethylation activates genes in rice endosperm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18729-18734.	3.3	342
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23	Conservation and divergence in eukaryotic DNA methylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 9027-9028.	3.3	76
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26	A role for CHROMOMETHYLASE3 in mediating transposon and euchromatin silencing during egg cell reprogramming in <i>Arabidopsis</i> . <i>Plant Signaling and Behavior</i> , 2010, 5, 1167-1170.	1.2	17
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1967	Structural insights into CpG-specific DNA methylation by human DNA methyltransferase 3B. <i>Nucleic Acids Research</i> , 2020, 48, 3949-3961.	6.5	38
1968	Underestimated effect of intragenic HIV-1 DNA methylation on viral transcription in infected individuals. <i>Clinical Epigenetics</i> , 2020, 12, 36.	1.8	13
1969	Genomic Designing of Climate-Smart Vegetable Crops. , 2020, , .		3

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1971	The Pattern and Function of DNA Methylation in Fungal Plant Pathogens. <i>Microorganisms</i> , 2020, 8, 227.	1.6	26
1972	Invited Review: Epigenetics in neurodevelopment. <i>Neuropathology and Applied Neurobiology</i> , 2020, 46, 6-27.	1.8	34
1973	The lipid elongation enzyme ELOVL2 is a molecular regulator of aging in the retina. <i>Aging Cell</i> , 2020, 19, e13100.	3.0	66
1974	Small RNAs in the Transgenerational Inheritance of Epigenetic Information. <i>Trends in Genetics</i> , 2020, 36, 203-214.	2.9	65
1976	Epigenomic landscape and epigenetic regulation in maize. <i>Theoretical and Applied Genetics</i> , 2020, 133, 1467-1489.	1.8	10
1977	Evolutionary Persistence of DNA Methylation for Millions of Years after Ancient Loss of a De Novo Methyltransferase. <i>Cell</i> , 2020, 180, 263-277.e20.	13.5	87
1978	N6-Methyladenine DNA Modification in the Woodland Strawberry (<i>Fragaria vesca</i>) Genome Reveals a Positive Relationship With Gene Transcription. <i>Frontiers in Genetics</i> , 2019, 10, 1288.	1.1	14
1979	Methylation of <i>MdMYB1</i> locus mediated by RdDM pathway regulates anthocyanin biosynthesis in apple. <i>Plant Biotechnology Journal</i> , 2020, 18, 1736-1748.	4.1	42
1980	Oxidized Derivatives of 5-Methylcytosine Alter the Stability and Dehybridization Dynamics of Duplex DNA. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1160-1174.	1.2	16
1981	Chromatin Organization in Early Land Plants Reveals an Ancestral Association between H3K27me3, Transposons, and Constitutive Heterochromatin. <i>Current Biology</i> , 2020, 30, 573-588.e7.	1.8	160
1982	Analysis of miRNAs in Two Wheat Cultivars Infected With <i>Puccinia striiformis</i> f. sp. <i>tritici</i> . <i>Frontiers in Plant Science</i> , 2019, 10, 1574.	1.7	20
1983	Experimental DNA Demethylation Associates with Changes in Growth and Gene Expression of Oak Tree Seedlings. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 1019-1028.	0.8	11
1984	Involvement of MEM1 in DNA demethylation in <i>Arabidopsis</i> . <i>Plant Molecular Biology</i> , 2020, 102, 307-322.	2.0	10
1985	Cytosine methylation of rice mitochondrial DNA from grain and leaf tissues. <i>Planta</i> , 2020, 251, 57.	1.6	2
1986	Interacting Genomic Landscapes of REC8-Cohesin, Chromatin, and Meiotic Recombination in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2020, 32, 1218-1239.	3.1	57
1987	DNA Methylation: Mega-Year Inheritance with the Help of Darwin. <i>Current Biology</i> , 2020, 30, R319-R321.	1.8	4
1988	Bisulphite sequencing reveals dynamic DNA methylation under desiccation and salinity stresses in rice cultivars. <i>Genomics</i> , 2020, 112, 3537-3548.	1.3	42

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1990	Stochastic modeling reveals kinetic heterogeneity in post-replication DNA methylation. <i>PLoS Computational Biology</i> , 2020, 16, e1007195.	1.5	21
1991	DNA methylation and integrity in aged seeds and regenerated plants. <i>Seed Science Research</i> , 2020, 30, 92-100.	0.8	20
1992	Identification of Metabolite and Lipid Profiles in a Segregating Peach Population Associated with Mealiness in <i>Prunus persica</i> (L.) Batsch. <i>Metabolites</i> , 2020, 10, 154.	1.3	44
1993	Epigenetic Regulation of ABA-Induced Transcriptional Responses in Maize. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 1727-1743.	0.8	18
1994	Effects of Temperature Treatments on Cytosine-Methylation Profiles of Diploid and Autotetraploid Plants of the Alpine Species <i>Ranunculus kuepferi</i> (Ranunculaceae). <i>Frontiers in Plant Science</i> , 2020, 11, 435.	1.7	15
1995	Production of multi-petaled <i>Torenia fournieri</i> flowers by functional disruption of two class-C MADS-box genes. <i>Planta</i> , 2020, 251, 101.	1.6	16
1996	Genome-Wide DNA Methylation and RNA Analysis Reveal Potential Mechanism of Resistance to <i>Streptococcus agalactiae</i> in GIFT Strain of Nile Tilapia (<i>Oreochromis niloticus</i>). <i>Journal of Immunology</i> , 2020, 204, 3182-3190.	0.4	10
1997	Overexpression of human-derived DNMT3A induced intergenerational inheritance of DNA methylation and gene expression variations in rat brain and testis. <i>Epigenetics</i> , 2020, 15, 1107-1120.	1.3	2
1998	Diatom Molecular Research Comes of Age: Model Species for Studying Phytoplankton Biology and Diversity. <i>Plant Cell</i> , 2020, 32, 547-572.	3.1	94
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2000	Epigenomic regulation of OTU5 in <i>Arabidopsis thaliana</i> . <i>Genomics</i> , 2020, 112, 3549-3559.	1.3	7
2001	The plant mobile domain proteins MAIN and MAIL1 interact with the phosphatase PP7L to regulate gene expression and silence transposable elements in <i>Arabidopsis thaliana</i> . <i>PLoS Genetics</i> , 2020, 16, e1008324.	1.5	13
2002	Distribution Patterns of DNA N6-Methyladenosine Modification in Non-coding RNA Genes. <i>Frontiers in Genetics</i> , 2020, 11, 268.	1.1	7
2003	Both intra and inter-domain interactions define the intrinsic dynamics and allosteric mechanism in DNMT1s. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 749-764.	1.9	20
2004	Technologies for targeting DNA methylation modifications: Basic mechanism and potential application in cancer. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2021, 1875, 188454.	3.3	23
2005	Role of H1 and DNA methylation in selective regulation of transposable elements during heat stress. <i>New Phytologist</i> , 2021, 229, 2238-2250.	3.5	40
2006	DNA methylation dynamics of sperm cell lineage development in tomato. <i>Plant Journal</i> , 2021, 105, 565-579.	2.8	7

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2008	Histone H3K4 methyltransferases SDG25 and ATX1 maintain heat stress gene expression during recovery in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2021, 105, 1326-1338.	2.8	41
2009	MYB_SH[AL]QKY[RF] transcription factors <i>MdLUX</i> and <i>MdPCL-like</i> promote anthocyanin accumulation through DNA hypomethylation and <i>MdF3H</i> activation in apple. <i>Tree Physiology</i> , 2021, 41, 836-848.	1.4	7
2010	High-throughput analyses and Bayesian network modeling highlight novel epigenetic Adverse Outcome Pathway networks of DNA methyltransferase inhibitor mediated transgenerational effects. <i>Journal of Hazardous Materials</i> , 2021, 408, 124490.	6.5	7
2011	Coping with inclement weather conditions due to high temperature and water deficit in rice: An insight from genetic and biochemical perspectives. <i>Physiologia Plantarum</i> , 2021, 172, 487-504.	2.6	13
2012	Box protein CFK1 interacts with and degrades <i>de novo</i> DNA methyltransferase in <i>Arabidopsis</i> . <i>New Phytologist</i> , 2021, 229, 3303-3317.	3.5	13
2013	Comprehensive epigenome and transcriptome analysis of carbon reserve remobilization in indica and japonica rice stems under moderate soil drying. <i>Journal of Experimental Botany</i> , 2021, 72, 1384-1398.	2.4	3
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2017	Structural dynamics of double-stranded DNA with epigenome modification. <i>Nucleic Acids Research</i> , 2021, 49, 1152-1162.	6.5	8
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2024	Apomixis and strategies to induce apomixis to preserve hybrid vigor for multiple generations. <i>GM Crops and Food</i> , 2021, 12, 57-70.	2.0	32
2025	Epigenetic Regulation of Spermatogonial Stem Cell Homeostasis: From DNA Methylation to Histone Modification. <i>Stem Cell Reviews and Reports</i> , 2021, 17, 562-580.	1.7	12

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2028	Recursive Convolutional Neural Networks for Epigenomics. , 2021, , .		0
2029	Endogenous Retroelements in Cancer: Molecular Roles and Clinical Approach. , 0, , .		1
2030	Might Gene Duplication and Neofunctionalization Contribute to the Sexual Lability Observed in Fish? Sexual Development, 2021, 15, 122-133.	1.1	6
2031	Epigenetics of major depressive disorder. , 2021, , 361-392.		0
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2033	RECENT ADVANCES IN THE REGULATION OF CLIMACTERIC FRUIT RIPENING: HORMONE, TRANSCRIPTION FACTOR AND EPIGENETIC MODIFICATIONS. <i>Frontiers of Agricultural Science and Engineering</i> , 2021, .	0.9	2
2035	Transcription Chromatin: Methyl-CpG-Binding Proteins. , 2021, , 390-396.		0
2036	The Temporal Order of DNA Replication Shaped by Mammalian DNA Methyltransferases. <i>Cells</i> , 2021, 10, 266.	1.8	6
2037	Degradome sequencing-based identification of phasiRNAs biogenesis pathways in <i>Oryza sativa</i> . <i>BMC Genomics</i> , 2021, 22, 93.	1.2	4
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2039	Epigenetic Basis of Polyphenols in Cancer Prevention and Therapy. , 2021, , 189-238.		1
2041	Deciphering the genetic code of DNA methylation. <i>Briefings in Bioinformatics</i> , 2021, 22, .	3.2	29
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2045	Analysis of Rice Transcriptome Reveals the LncRNA/CircRNA Regulation in Tissue Development. <i>Rice</i> , 2021, 14, 14.	1.7	26
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2051	DNA Demethylation in Response to Heat Stress in Arabidopsis thaliana. International Journal of Molecular Sciences, 2021, 22, 1555.	1.8	31
2052	Parental variation in CHG methylation is associated with allelic-specific expression in elite hybrid rice. Plant Physiology, 2021, 186, 1025-1041.	2.3	31
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2055	The <i>mop1</i> mutation affects the recombination landscape in maize. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	17
2056	DNA Modification Patterns within the Transposable Elements of the Fig (<i>Ficus carica</i> L.) Genome. Plants, 2021, 10, 451.	1.6	15
2057	Aphid feeding induces the relaxation of epigenetic control and the associated regulation of the defense response in <i>Arabidopsis</i> . New Phytologist, 2021, 230, 1185-1200.	3.5	24
2058	Variations of Cytosine Methylation Patterns between Staminate and Perfect Flowers within Andromonoecious <i>Taihangia rupestris</i> (Rosaceae) Revealed by Methylation-Sensitive Amplification Polymorphism. Journal of Plant Growth Regulation, 2022, 41, 351-363.	2.8	3
2061	Plant Epigenetics: Propelling DNA Methylation Variation across the Cell Cycle. Current Biology, 2021, 31, R129-R131.	1.8	7
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2065	Whole-genome characterization of chronological age-associated changes in methylome and circular RNAs in moso bamboo (<i>Phyllostachys edulis</i>) from vegetative to floral growth. Plant Journal, 2021, 106, 435-453.	2.8	27
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2069	Polyploidy-associated paramutation in Arabidopsis is determined by small RNAs, temperature, and allele structure. PLoS Genetics, 2021, 17, e1009444.	1.5	10
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2073	Half-high blueberry plants from bioreactor culture display elevated levels of DNA methylation polymorphism. <i>Plant Cell, Tissue and Organ Culture</i> , 2021, 146, 269-284.	1.2	5
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2075	Barley somatic embryogenesis-an attempt to modify variation induced in tissue culture. <i>Journal of Biological Research</i> , 2021, 28, 9.	2.2	13
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2079	Priming of Marine Macrophytes for Enhanced Restoration Success and Food Security in Future Oceans. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	21
2082	Epigenetic variation in animal populations: Sources, extent, phenotypic implications, and ecological and evolutionary relevance. <i>Journal of Biosciences</i> , 2021, 46, 1.	0.5	34
2083	Genome-wide distribution and functions of the AAE complex in epigenetic regulation in <i>Arabidopsis</i> . <i>Journal of Integrative Plant Biology</i> , 2021, 63, 707-722.	4.1	18
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2085	On the Role of Transposable Elements in the Regulation of Gene Expression and Subgenomic Interactions in Crop Genomes. <i>Critical Reviews in Plant Sciences</i> , 2021, 40, 157-189.	2.7	28
2087	Tissue and/or developmental stage specific methylation of nrDNA in <i>Capsicum annuum</i> . <i>Journal of Plant Research</i> , 2021, 134, 841-855.	1.2	4
2088	Empirical evidence for epigenetic inheritance driving evolutionary adaptation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200121.	1.8	44
2089	Altered chromatin conformation and transcriptional regulation in watermelon following genome doubling. <i>Plant Journal</i> , 2021, 106, 588-600.	2.8	15
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2091	The chromatin remodeler DDM1 prevents transposon mobility through deposition of histone variant H2A.W. <i>Nature Cell Biology</i> , 2021, 23, 391-400.	4.6	73
2092	The role of epigenetics, particularly DNA methylation, in the evolution of caste in insect societies. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200115.	1.8	40
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2096	Genome-wide identification and transcriptional characterization of DNA methyltransferases conferring temperature-sensitive male sterility in wheat. <i>BMC Genomics</i> , 2021, 22, 310.	1.2	3
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2098	Gene body methylation is under selection in <i>Arabidopsis thaliana</i> . <i>Genetics</i> , 2021, 218, .	1.2	10
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2105	Three putative DNA methyltransferases of <i>Verticillium dahliae</i> differentially contribute to DNA methylation that is dispensable for growth, development and virulence. <i>Epigenetics and Chromatin</i> , 2021, 14, 21.	1.8	8
2106	Genome-wide analysis of microRNA156 and its targets, the genes encoding SQUAMOSA promoter-binding protein-like (SPL) transcription factors, in the grass family Poaceae. <i>Journal of Zhejiang University: Science B</i> , 2021, 22, 366-382.	1.3	3
2107	Genome-wide identification of 5-methylcytosine sites in bacterial genomes by high-throughput sequencing of MspI restriction fragments. <i>PLoS ONE</i> , 2021, 16, e0247541.	1.1	8
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2109	Distinct methylome patterns contribute to ecotypic differentiation in the growth of the storage organ of a flowering plant (sacred lotus). <i>Molecular Ecology</i> , 2021, 30, 2831-2845.	2.0	14
2110	Gestational high-fat diet impaired demethylation of Ppar α and induced obesity of offspring. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 5404-5416.	1.6	11
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2115	Absence of CG methylation alters the long noncoding transcriptome landscape in multiple species. <i>FEBS Letters</i> , 2021, 595, 1734-1747.	1.3	4
2116	Transgenerational effect of mutants in the RNA-directed DNA methylation pathway on the triploid block in <i>Arabidopsis</i> . <i>Genome Biology</i> , 2021, 22, 141.	3.8	13
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2118	Ectopic targeting of CG DNA methylation in <i>Arabidopsis</i> with the bacterial SssI methyltransferase. <i>Nature Communications</i> , 2021, 12, 3130.	5.8	20
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2120	Dynamic changes of DNA methyltransferase and demethylase gene expression during <i>Chrysanthemum</i> <i>morifolium</i> flower induction and development. <i>European Journal of Horticultural Science</i> , 2021, 86, 122-129.	0.3	2
2121	Region-level epimutation rates in <i>Arabidopsis thaliana</i> . <i>Heredity</i> , 2021, 127, 190-202.	1.2	21
2122	Epigenetic Distribution of Recombinant Plant Chromosome Fragments in a Human- <i>Arabidopsis</i> Hybrid Cell Line. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5426.	1.8	1
2123	Novel and emerging biotechnological crop protection approaches. <i>Plant Biotechnology Journal</i> , 2021, 19, 1495-1510.	4.1	26
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2125	Transcriptomic and epigenomic remodeling occurs during vascular cambium periodicity in <i>Populus tomentosa</i> . <i>Horticulture Research</i> , 2021, 8, 102.	2.9	16
2126	iRG-4mC: Neural Network Based Tool for Identification of DNA 4mC Sites in Rosaceae Genome. <i>Symmetry</i> , 2021, 13, 899.	1.1	10
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2132	RNA-directed DNA methylation prevents rapid and heritable reversal of transposon silencing under heat stress in <i>Zea mays</i> . <i>PLoS Genetics</i> , 2021, 17, e1009326.	1.5	24
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2134	Molecular basis of heterosis and related breeding strategies reveal its importance in vegetable breeding. <i>Horticulture Research</i> , 2021, 8, 120.	2.9	43
2135	Gene expression variation in <i>Arabidopsis</i> embryos at single-nucleus resolution. <i>Development (Cambridge)</i> , 2021, 148, .	1.2	22
2136	DNA methylation is involved in acclimation to iron deficiency in rice (<i>Oryza sativa</i>). <i>Plant Journal</i> , 2021, 107, 727-739.	2.8	17
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