

Isao Suetake

List of Publications by Year in descending order

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74
papers

4,676
citations

147566

31
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98622

67
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75
all docs

75
docs citations

75
times ranked

5716
citing authors

#	ARTICLE	IF	CITATIONS
1	The SRA protein Np95 mediates epigenetic inheritance by recruiting Dnmt1 to methylated DNA. <i>Nature</i> , 2007, 450, 908-912.	13.7	1,096
2	DNMT3L Stimulates the DNA Methylation Activity of Dnmt3a and Dnmt3b through a Direct Interaction. <i>Journal of Biological Chemistry</i> , 2004, 279, 27816-27823.	1.6	383
3	Array-based genomic resequencing of human leukemia. <i>Oncogene</i> , 2010, 29, 3723-3731.	2.6	237
4	Stage- and cell-specific expression of Dnmt3a and Dnmt3b during embryogenesis. <i>Mechanisms of Development</i> , 2002, 118, 187-190.	1.7	198
5	Structural insight into maintenance methylation by mouse DNA methyltransferase 1 (Dnmt1). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9055-9059.	3.3	172
6	Processive Methylation of Hemimethylated CpG Sites by Mouse Dnmt1 DNA Methyltransferase. <i>Journal of Biological Chemistry</i> , 2005, 280, 64-72.	1.6	165
7	Enzymatic properties of de novo-type mouse DNA (cytosine-5) methyltransferases. <i>Nucleic Acids Research</i> , 2001, 29, 3506-3512.	6.5	153
8	5-Hydroxymethylcytosine Marks Sites of DNA Damage and Promotes Genome Stability. <i>Cell Reports</i> , 2016, 14, 1283-1292.	2.9	152
9	Structure of the Dnmt1 Reader Module Complexed with a Unique Two-Mono-Ubiquitin Mark on Histone H3 Reveals the Basis for DNA Methylation Maintenance. <i>Molecular Cell</i> , 2017, 68, 350-360.e7.	4.5	124
10	PCNA clamp facilitates action of DNA cytosine methyltransferase 1 on hemimethylated DNA. <i>Genes To Cells</i> , 2002, 7, 997-1007.	0.5	115
11	The DNA Methyltransferase Dnmt1 Directly Interacts with the SET and RING Finger-associated (SRA) Domain of the Multifunctional Protein Uhrf1 to Facilitate Accession of the Catalytic Center to Hemi-methylated DNA. <i>Journal of Biological Chemistry</i> , 2014, 289, 379-386.	1.6	108
12	Three novel DNMT3B mutations in Japanese patients with ICF syndrome. <i>American Journal of Medical Genetics Part A</i> , 2002, 112, 31-37.	2.4	107
13	Co-expression of de novo DNA methyltransferases Dnmt3a2 and Dnmt3L in gonocytes of mouse embryos. <i>Gene Expression Patterns</i> , 2004, 5, 231-237.	0.3	106
14	Maintenance-Type DNA Methyltransferase Is Highly Expressed in Post-Mitotic Neurons and Localized in the Cytoplasmic Compartment. <i>Journal of Biochemistry</i> , 2000, 128, 315-321.	0.9	88
15	Synthetic-Molecule/Protein Hybrid Probe with Fluorogenic Switch for Live-Cell Imaging of DNA Methylation. <i>Journal of the American Chemical Society</i> , 2018, 140, 1686-1690.	6.6	83
16	Cyclin-dependent kinase-like 5 binds and phosphorylates DNA methyltransferase 1. <i>Biochemical and Biophysical Research Communications</i> , 2008, 377, 1162-1167.	1.0	81
17	Cell Cycle-Dependent Turnover of 5-Hydroxymethyl Cytosine in Mouse Embryonic Stem Cells. <i>PLoS ONE</i> , 2013, 8, e82961.	1.1	73
18	Abnormal DNA Methyltransferase Expression in Mouse Germline Stem Cells Results in Spermatogenic Defects1. <i>Biology of Reproduction</i> , 2009, 81, 155-164.	1.2	72

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19	Distinct DNA Methylation Activity of Dnmt3a and Dnmt3b towards Naked and Nucleosomal DNA. <i>Journal of Biochemistry</i> , 2006, 139, 503-515.	0.9	69
20	Distinct Enzymatic Properties of Recombinant Mouse DNA Methyltransferases Dnmt3a and Dnmt3b. <i>Journal of Biochemistry</i> , 2003, 133, 737-744.	0.9	67
21	Domain Structure of the Dnmt1, Dnmt3a, and Dnmt3b DNA Methyltransferases. <i>Advances in Experimental Medicine and Biology</i> , 2016, 945, 63-86.	0.8	67
22	Structural Basis of the Versatile DNA Recognition Ability of the Methyl-CpG Binding Domain of Methyl-CpG Binding Domain Protein 4. <i>Journal of Biological Chemistry</i> , 2013, 288, 6351-6362.	1.6	60
23	The DNA-binding activity of mouse DNA methyltransferase 1 is regulated by phosphorylation with casein kinase 1 β . <i>Biochemical Journal</i> , 2010, 427, 489-497.	1.7	56
24	Regulation and Function of DNA Methylation in Vertebrates. <i>Journal of Biochemistry</i> , 1998, 123, 993-999.	0.9	49
25	Hinge and Chromoshadow of HP1 α Participate in Recognition of K9 Methylated Histone H3 in Nucleosomes. <i>Journal of Molecular Biology</i> , 2013, 425, 54-70.	2.0	44
26	Characterization of DNA-binding activity in the N-terminal domain of the DNA methyltransferase Dnmt3a. <i>Biochemical Journal</i> , 2011, 437, 141-148.	1.7	40
27	Mouse Dnmt3a Preferentially Methylates Linker DNA and Is Inhibited by Histone H1. <i>Journal of Molecular Biology</i> , 2008, 383, 810-821.	2.0	39
28	Genome engineering of mammalian haploid embryonic stem cells using the Cas9/RNA system. <i>PeerJ</i> , 2013, 1, e230.	0.9	39
29	Cloning and Characterization of a Novel Ca ²⁺ /Calmodulin-Dependent Protein Kinase I Homologue in <i>Xenopus laevis</i> . <i>Journal of Biochemistry</i> , 2004, 135, 619-630.	0.9	35
30	Expression of Dnmt3b in mouse hematopoietic progenitor cells and spermatogonia at specific stages. <i>Gene Expression Patterns</i> , 2004, 5, 43-49.	0.3	33
31	Expression of DNA Methyltransferase (Dnmt1) in Testicular Germ Cells during Development of Mouse Embryo. <i>Cell Structure and Function</i> , 2001, 26, 685-691.	0.5	31
32	The Amino-Terminus of Mouse DNA Methyltransferase 1 Forms an Independent Domain and Binds to DNA with the Sequence Involving PCNA Binding Motif. <i>Journal of Biochemistry</i> , 2006, 140, 763-776.	0.9	31
33	Nucleosome compaction facilitates HP1 α binding to methylated H3K9. <i>Nucleic Acids Research</i> , 2015, 43, gkv841.	6.5	30
34	Stimulation Effect of Dnmt3L on the DNA Methylation Activity of Dnmt3a2. <i>Journal of Biochemistry</i> , 2006, 140, 553-559.	0.9	28
35	Samd7 is a cell type-specific PRC1 component essential for establishing retinal rod photoreceptor identity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8264-E8273.	3.3	28
36	Interactions of HP1 Bound to H3K9me3 Dinucleosome by Molecular Simulations and Biochemical Assays. <i>Biophysical Journal</i> , 2018, 114, 2336-2351.	0.2	28

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37	Dual Functions of the RFTS Domain of Dnmt1 in Replication-Coupled DNA Methylation and in Protection of the Genome from Aberrant Methylation. PLoS ONE, 2015, 10, e0137509.	1.1	24
38	Synthesis of histone proteins by CPE ligation using a recombinant peptide as the C-terminal building block. Journal of Biochemistry, 2015, 158, 403-411.	0.9	24
39	Proliferation Stage-dependent Expression of DNA Methyltransferase (Dnmt1) in Mouse Small Intestine.. Cell Structure and Function, 2001, 26, 79-86.	0.5	23
40	Delayed male germ cell sex-specification permits transition into embryonal carcinoma cells with features of primed pluripotency. Development (Cambridge), 2018, 145, .	1.2	21
41	Recombinant Tol2 transposase with activity in <i>Xenopus</i> embryos. FEBS Letters, 2007, 581, 4333-4336.	1.3	20
42	Recombinant mammalian DNA methyltransferase activity on model transcriptional gene silencing short RNA-DNA heteroduplex substrates. Biochemical Journal, 2010, 432, 323-332.	1.7	20
43	Enhanced processivity of Dnmt1 by monoubiquitinated histone H3. Genes To Cells, 2020, 25, 22-32.	0.5	18
44	Synaptic control of DNA methylation involves activity-dependent degradation of DNMT3A1 in the nucleus. Neuropsychopharmacology, 2020, 45, 2120-2130.	2.8	17
45	Identification and characterization of novel calcium-binding proteins of Dictyostelium and their spatial expression patterns during development. Development Growth and Differentiation, 2003, 45, 507-514.	0.6	16
46	Total Synthesis and Structural Characterization of Caveolin-1. Angewandte Chemie - International Edition, 2021, 60, 13900-13905.	7.2	14
47	Identification of two novel mouse nuclear proteins that bind selectively to a methylated c-Myc recognizing sequence. Nucleic Acids Research, 1993, 21, 2125-2130.	6.5	13
48	Synthesis of ubiquitylated histone H3 using a thirane linker for chemical ligation. Journal of Peptide Science, 2017, 23, 532-538.	0.8	13
49	Xenopus Maintenance-Type DNA Methyltransferase Is Accumulated and Translocated into Germinal Vesicles of Oocytes. Journal of Biochemistry, 1999, 125, 1175-1182.	0.9	12
50	Simple and accurate single base resolution analysis of 5-hydroxymethylcytosine by catalytic oxidative bisulfite sequencing using micelle incarcerated oxidants. Bioorganic and Medicinal Chemistry, 2016, 24, 4254-4262.	1.4	12
51	Exogenous Expression of Mouse Dnmt3 Induces Apoptosis in Xenopus Early-Embryos. Journal of Biochemistry, 2002, 131, 933-941.	0.9	11
52	The Dnmt3b Splice Variant is Specifically Expressed in In Vitro-manipulated Blastocysts and Their Derivative ES Cells. Journal of Reproduction and Development, 2011, 57, 579-585.	0.5	11
53	Xenopus Eggs Express an Identical DNA Methyltransferase, Dnmt1, to Somatic Cells. Journal of Biochemistry, 2001, 130, 359-366.	0.9	10
54	A Novel method for the simultaneous identification of methylcytosine and hydroxymethylcytosine at a single base resolution. Nucleic Acids Research, 2016, 45, gkw994.	6.5	10

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55	A thiirane linker for isopeptide mimetics by peptide ligation. <i>Tetrahedron Letters</i> , 2016, 57, 2112-2115.	0.7	10
56	Mechanism-Based Inhibitor of DNA Cytosine Methyltransferase by a S _N Ar Reaction with an Oligodeoxyribonucleotide Containing a 2-Amino-4-Halopyridine Nucleoside. <i>ChemBioChem</i> , 2018, 19, 865-872.	1.3	9
57	Isolation of the novel cDNA of a gene of which expression is induced by a demethylating stimulus. <i>Gene</i> , 1999, 240, 289-295.	1.0	8
58	Chromatin-dependent negative regulation of Dnmt1 by nucleosome structure and histone tails. <i>FEBS Journal</i> , 2017, 284, 3455-3469.	2.2	8
59	Effect of Aphidicolin on DNA Methyltransferase in the Nucleus. <i>Cell Structure and Function</i> , 1998, 23, 137-142.	0.5	7
60	Monoclonal antibody against dnmt1 arrests the cell division of xenopus early-stage embryos. <i>Experimental Cell Research</i> , 2003, 286, 252-262.	1.2	7
61	NMR Characterization of the Interaction of the Endonuclease Domain of MutL with Divalent Metal Ions and ATP. <i>PLoS ONE</i> , 2014, 9, e98554.	1.1	7
62	Epigenetic Protection of Vertebrate Lymphoid Progenitor Cells by Dnmt1. <i>IScience</i> , 2020, 23, 101260.	1.9	7
63	A novel method to analyze 5-hydroxymethylcytosine in CpG sequences using maintenance DNA methyltransferase, DNMT1. <i>FEBS Open Bio</i> , 2015, 5, 741-747.	1.0	6
64	Protective effects of nicotinamide mononucleotide against oxidative stress-induced PC12 cell death via mitochondrial enhancement. <i>PharmaNutrition</i> , 2020, 11, 100175.	0.8	5
65	DNMT1 regulates the timing of DNA methylation by DNMT3 in an enzymatic activity-dependent manner in mouse embryonic stem cells. <i>PLoS ONE</i> , 2022, 17, e0262277.	1.1	5
66	A Novel DNA Binding Protein That Recognizes the Methylated c-Myc Binding Motif1. <i>Journal of Biochemistry</i> , 1995, 118, 244-250.	0.9	4
67	Conserved threonine 1505 in the catalytic domain stabilizes mouse DNA methyltransferase 1. <i>Journal of Biochemistry</i> , 2017, 162, 271-278.	0.9	4
68	Selective oxidation of 5-hydroxymethylcytosine with micelle incarcerated oxidants to determine it at single base resolution. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 5667-5671.	1.0	3
69	Contractile Activity and Fluorescence Changes in Fluo-3-Loaded Isolated Ventricular Myocytes. <i>The Japanese Journal of Physiology</i> , 1992, 42, 815-821.	0.9	3
70	The Molecular Basis of DNA Methylation. <i>Cancer Drug Discovery and Development</i> , 2017, , 19-51.	0.2	2
71	Chemical synthesis of the ubiquitinated form of histone H3 and its effect on DNA methyltransferase 1. <i>Journal of Peptide Science</i> , 2019, 25, e3200.	0.8	2
72	Structural dynamics of the chromo-shadow domain and chromodomain of HP1 bound to histone H3K9 methylated peptide, as measured by site-directed spin-labeling EPR spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 2021, 567, 42-48.	1.0	2

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73	Establishment and Maintenance of DNA Methylation. , 2016, , 489-516.		1
74	3P119 Characterization of the hemi-methylated CpG methylation process using fluorescent labeled SRA(04. Nucleic acid binding proteins,Poster,The 52nd Annual Meeting of the Biophysical Society of Tj ETQq0 0 0 qBT /Overdock 10 Tf		