Isao Suetake

List of Publications by Year
in descending order

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74 papers	4,676 citations	147566 31 h-index	98622 67 g-index
75 all docs	75 docs citations	75 times ranked	5716 citing authors

#	Article	IF	Citations
1	DNMT1 regulates the timing of DNA methylation by DNMT3 in an enzymatic activity-dependent manner in mouse embryonic stem cells. PLoS ONE, 2022, 17, e0262277.	1.1	5
2	Total Synthesis and Structural Characterization of Caveolinâ€1. Angewandte Chemie - International Edition, 2021, 60, 13900-13905.	7.2	14
3	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. Biochemical and Biophysical Research Communications, 2021, 567, 42-48.	1.0	2
4	Enhanced processivity of Dnmt1 by monoubiquitinated histone H3. Genes To Cells, 2020, 25, 22-32.	0.5	18
5	Protective effects of nicotinamide mononucleotide against oxidative stress-induced PC12 cell death via mitochondrial enhancement. PharmaNutrition, 2020, 11, 100175.	0.8	5
6	Epigenetic Protection of Vertebrate Lymphoid Progenitor Cells by Dnmt1. IScience, 2020, 23, 101260.	1.9	7
7	Synaptic control of DNA methylation involves activity-dependent degradation of DNMT3A1 in the nucleus. Neuropsychopharmacology, 2020, 45, 2120-2130.	2.8	17
8	Chemical synthesis of the ubiquitinated form of histone H3 and its effect on DNA methyltransferase 1. Journal of Peptide Science, 2019, 25, e3200.	0.8	2
9	Mechanismâ€Based Inhibitor of DNA Cytosineâ€5 Methyltransferase by a S_NAr Reaction with an Oligodeoxyribonucleotide Containing a 2â€Aminoâ€4â€Halopyridineâ€Câ€Nucleoside. ChemBioChem, 2018, 19, 865-872.	3.3	9
10	Synthetic-Molecule/Protein Hybrid Probe with Fluorogenic Switch for Live-Cell Imaging of DNA Methylation. Journal of the American Chemical Society, 2018, 140, 1686-1690.	6.6	83
11	Interactions of HP1 Bound to H3K9me3 Dinucleosome by Molecular Simulations andÂBiochemical Assays. Biophysical Journal, 2018, 114, 2336-2351.	0.2	28
12	Delayed male germ cell sex-specification permits transition into embryonal carcinoma cells with features of primed pluripotency. Development (Cambridge), 2018, 145, .	1.2	21
13	Synthesis of ubiquitylated histone H3 using a thiirane linker for chemical ligation. Journal of Peptide Science, 2017, 23, 532-538.	0.8	13
14	Conserved threonine 1505 in the catalytic domain stabilizes mouse DNA methyltransferase 1. Journal of Biochemistry, 2017, 162, 271-278.	0.9	4
15	Structure of the Dnmt1 Reader Module Complexed with a Unique Two-Mono-Ubiquitin Mark on Histone H3 Reveals the Basis for DNA Methylation Maintenance. Molecular Cell, 2017, 68, 350-360.e7.	4.5	124
16	<scp>RFTS</scp>â€dependent negative regulation of Dnmt1 by nucleosome structure and histone tails. FEBS Journal, 2017, 284, 3455-3469.	2.2	8
17	The Molecular Basis of DNA Methylation. Cancer Drug Discovery and Development, 2017, , 19-51.	0.2	2
18	Samd7 is a cell type-specific PRC1 component essential for establishing retinal rod photoreceptor identity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8264-E8273.	3.3	28

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19	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
20	A thiirane linker for isopeptide mimetics by peptide ligation. Tetrahedron Letters, 2016, 57, 2112-2115.	0.7	10
21	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
22	Domain Structure of the Dnmt1, Dnmt3a, and Dnmt3b DNA Methyltransferases. Advances in Experimental Medicine and Biology, 2016, 945, 63-86.	0.8	67
23	5-Hydroxymethylcytosine Marks Sites of DNA Damage and Promotes Genome Stability. Cell Reports, 2016, 14, 1283-1292.	2.9	152
24	Establishment and Maintenance of DNA Methylation. , 2016, , 489-516.		1
25	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
26	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
27	Nucleosome compaction facilitates HP1Î³ binding to methylated H3K9. Nucleic Acids Research, 2015, 43, gkv841.	6.5	30
28	A novel method to analyze 5â€hydroxymethylcytosine in CpG sequences using maintenance DNA methyltransferase, DNMT1. FEBS Open Bio, 2015, 5, 741-747.	1.0	6
29	Selective oxidation of 5-hydroxymethylcytosine with micelle incarcerated oxidants to determine it at single base resolution. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 5667-5671.	1.0	3
30	NMR Characterization of the Interaction of the Endonuclease Domain of MutL with Divalent Metal Ions and ATP. PLoS ONE, 2014, 9, e98554.	1.1	7
31	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. Journal of Biological Chemistry, 2014, 289, 379-386.	1.6	108
32	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 rgBT /Overlock 10 Tf		0
33	Hinge and Chromoshadow of HP1Î± Participate in Recognition of K9 Methylated Histone H3 in Nucleosomes. Journal of Molecular Biology, 2013, 425, 54-70.	2.0	44
34	Structural Basis of the Versatile DNA Recognition Ability of the Methyl-CpG Binding Domain of Methyl-CpG Binding Domain Protein 4. Journal of Biological Chemistry, 2013, 288, 6351-6362.	1.6	60
35	Cell Cycle-Dependent Turnover of 5-Hydroxymethyl Cytosine in Mouse Embryonic Stem Cells. PLoS ONE, 2013, 8, e82961.	1.1	73
36	Genome engineering of mammalian haploid embryonic stem cells using the Cas9/RNA system. PeerJ, 2013, 1, e230.	0.9	39

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37	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
38	Characterization of DNA-binding activity in the N-terminal domain of the DNA methyltransferase Dnmt3a. Biochemical Journal, 2011, 437, 141-148.	1.7	40
39	Structural insight into maintenance methylation by mouse DNA methyltransferase 1 (Dnmt1). Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9055-9059.	3.3	172
40	The DNA-binding activity of mouse DNA methyltransferase 1 is regulated by phosphorylation with casein kinase 1Î/Îµ. Biochemical Journal, 2010, 427, 489-497.	1.7	56
41	Recombinant mammalian DNA methyltransferase activity on model transcriptional gene silencing short RNAâ€“DNA heteroduplex substrates. Biochemical Journal, 2010, 432, 323-332.	1.7	20
42	Array-based genomic resequencing of human leukemia. Oncogene, 2010, 29, 3723-3731.	2.6	237
43	Abnormal DNA Methyltransferase Expression in Mouse Germline Stem Cells Results in Spermatogenic Defects1. Biology of Reproduction, 2009, 81, 155-164.	1.2	72
44	Mouse Dnmt3a Preferentially Methylates Linker DNA and Is Inhibited by Histone H1. Journal of Molecular Biology, 2008, 383, 810-821.	2.0	39
45	Cyclin-dependent kinase-like 5 binds and phosphorylates DNA methyltransferase 1. Biochemical and Biophysical Research Communications, 2008, 377, 1162-1167.	1.0	81
46	Recombinant Tol2 transposase with activity in Xenopus embryos. FEBS Letters, 2007, 581, 4333-4336.	1.3	20
47	The SRA protein Np95 mediates epigenetic inheritance by recruiting Dnmt1 to methylated DNA. Nature, 2007, 450, 908-912.	13.7	1,096
48	Stimulation Effect of Dnmt3L on the DNA Methylation Activity of Dnmt3a2. Journal of Biochemistry, 2006, 140, 553-559.	0.9	28
49	Distinct DNA Methylation Activity of Dnmt3a and Dnmt3b towards Naked and Nucleosomal DNA. Journal of Biochemistry, 2006, 139, 503-515.	0.9	69
50	The Amino-Terminus of Mouse DNA Methyltransferase 1 Forms an Independent Domain and Binds to DNA with the Sequence Involving PCNA Binding Motif. Journal of Biochemistry, 2006, 140, 763-776.	0.9	31
51	Processive Methylation of Hemimethylated CpG Sites by Mouse Dnmt1 DNA Methyltransferase. Journal of Biological Chemistry, 2005, 280, 64-72.	1.6	165
52	Cloning and Characterization of a Novel Ca2+/Calmodulin-Dependent Protein Kinase I Homologue in Xenopus laevis. Journal of Biochemistry, 2004, 135, 619-630.	0.9	35
53	Expression of Dnmt3b in mouse hematopoietic progenitor cells and spermatogonia at specific stages. Gene Expression Patterns, 2004, 5, 43-49.	0.3	33
54	Co-expression of de novo DNA methyltransferases Dnmt3a2 and Dnmt3L in gonocytes of mouse embryos. Gene Expression Patterns, 2004, 5, 231-237.	0.3	106

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55	DNMT3L Stimulates the DNA Methylation Activity of Dnmt3a and Dnmt3b through a Direct Interaction. Journal of Biological Chemistry, 2004, 279, 27816-27823.	1.6	383
56	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
57	Monoclonal antibody against dnmt1 arrests the cell division of xenopus early-stage embryos. Experimental Cell Research, 2003, 286, 252-262.	1.2	7
58	Distinct Enzymatic Properties of Recombinant Mouse DNA Methyltransferases Dnmt3a and Dnmt3b. Journal of Biochemistry, 2003, 133, 737-744.	0.9	67
59	Exogenous Expression of Mouse Dnmt3 Induces Apoptosis in Xenopus Early-Embryos. Journal of Biochemistry, 2002, 131, 933-941.	0.9	11
60	Stage- and cell-specific expression of Dnmt3a and Dnmt3b during embryogenesis. Mechanisms of Development, 2002, 118, 187-190.	1.7	198
61	Three novelDNMT3B mutations in Japanese patients with ICF syndrome. American Journal of Medical Genetics Part A, 2002, 112, 31-37.	2.4	107
62	PCNA clamp facilitates action of DNA cytosine methyltransferase 1 on hemimethylated DNA. Genes To Cells, 2002, 7, 997-1007.	0.5	115
63	Expression of DNA Methyltransferase (Dnmt1) in Testicular Germ Cells during Development of Mouse Embryo.. Cell Structure and Function, 2001, 26, 685-691.	0.5	31
64	Proliferation Stage-dependent Expression of DNA Methyltransferase (Dnmt1) in Mouse Small Intestine.. Cell Structure and Function, 2001, 26, 79-86.	0.5	23
65	Enzymatic properties of de novo-type mouse DNA (cytosine-5) methyltransferases. Nucleic Acids Research, 2001, 29, 3506-3512.	6.5	153
66	Xenopus Eggs Express an Identical DNA Methyltransferase, Dnmtl, to Somatic Cells. Journal of Biochemistry, 2001, 130, 359-366.	0.9	10
67	Maintenance-Type DNA Methyltransferase Is Highly Expressed in Post-Mitotic Neurons and Localized in the Cytoplasmic Compartment. Journal of Biochemistry, 2000, 128, 315-321.	0.9	88
68	Xenopus Maintenance-Type DNA Methyltransferase Is Accumulated and Translocated into Germinal Vesicles of Oocytes. Journal of Biochemistry, 1999, 125, 1175-1182.	0.9	12
69	Isolation of the novel cDNA of a gene of which expression is induced by a demethylating stimulus. Gene, 1999, 240, 289-295.	1.0	8
70	Regulation and Function of DNA Methylation in Vertebrates. Journal of Biochemistry, 1998, 123, 993-999.	0.9	49
71	Effect of Aphidicolin on DNA Methyltransferase in the Nucleus.. Cell Structure and Function, 1998, 23, 137-142.	0.5	7
72	A Novel DNA Binding Protein That Recognizes the Methylated c-Myc Binding Motif1. Journal of Biochemistry, 1995, 118, 244-250.	0.9	4

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73	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
74	Contractile Activity and Fluorescence Changes in Fluo-3-Loaded Isolated Ventricular Myocytes.. The Japanese Journal of Physiology, 1992, 42, 815-821.	0.9	3