Mitsuyoshi Nakao

List of Publications by Year
in descending order

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95 papers	5,796 citations	101543 36 h-index	79698 73 g-index
97 all docs	97 docs citations	97 times ranked	8771 citing authors

#	Article	IF	Citations
1	Cohesin mediates transcriptional insulation by CCCTC-binding factor. Nature, 2008, 451, 796-801.	27.8	1,050
2	Solution Structure of the Methyl-CpG Binding Domain of Human MBD1 in Complex with Methylated DNA. Cell, 2001, 105, 487-497.	28.9	273
3	CTCF-Dependent Chromatin Insulator Is Linked to Epigenetic Remodeling. Molecular Cell, 2006, 23, 733-742.	9.7	249
4	Methyl-CpG Binding Domain 1 (MBD1) Interacts with the Suv39h1-HP1 Heterochromatic Complex for DNA Methylation-based Transcriptional Repression. Journal of Biological Chemistry, 2003, 278, 24132-24138.	3.4	237
5	Epigenetics: interaction of DNA methylation and chromatin. Gene, 2001, 278, 25-31.	2.2	200
6	Methylation-Mediated Transcriptional Silencing in Euchromatin by Methyl-CpG Binding Protein MBD1 Isoforms. Molecular and Cellular Biology, 1999, 19, 6415-6426.	2.3	189
7	Architectural roles of multiple chromatin insulators at the human apolipoprotein gene cluster. EMBO Journal, 2009, 28, 1234-1245.	7.8	185
8	FAD-dependent lysine-specific demethylase-1 regulates cellular energy expenditure. Nature Communications, 2012, 3, 758.	12.8	181
9	HMGA2 Maintains Oncogenic RAS-Induced Epithelial-Mesenchymal Transition in Human Pancreatic Cancer Cells. American Journal of Pathology, 2009, 174, 854-868.	3.8	180
10	H3K4/H3K9me3 Bivalent Chromatin Domains Targeted by Lineage-Specific DNA Methylation Pauses Adipocyte Differentiation. Molecular Cell, 2015, 60, 584-596.	9.7	180
11	Mechanism of Transcriptional Regulation by Methyl-CpG Binding Protein MBD1. Molecular and Cellular Biology, 2000, 20, 5107-5118.	2.3	143
12	The retrovirus HTLV-1 inserts an ectopic CTCF-binding site into the human genome. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3054-3059.	7.1	117
13	Transcriptional Repression and Heterochromatin Formation by MBD1 and MCAF/AM Family Proteins. Journal of Biological Chemistry, 2005, 280, 13928-13935.	3.4	106
14	Overproduction of eukaryotic SUMO-1- and SUMO-2-conjugated proteins in Escherichia coli. Analytical Biochemistry, 2004, 331, 204-206.	2.4	102
15	Nuclear and chromatin reorganization in the MHC-Oct3/4 locus at developmental phases of embryonic stem cell differentiation. Developmental Biology, 2006, 298, 354-367.	2.0	84
16	MCAF Mediates MBD1-Dependent Transcriptional Repression. Molecular and Cellular Biology, 2003, 23, 2834-2843.	2.3	83
17	Involvement of SUMO Modification in MBD1- and MCAF1-mediated Heterochromatin Formation. Journal of Biological Chemistry, 2006, 281, 23180-23190.	3.4	82
18	Lysine Demethylase LSD1 Coordinates Glycolytic and Mitochondrial Metabolism in Hepatocellular Carcinoma Cells. Cancer Research, 2015, 75, 1445-1456.	0.9	81

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19	Methylated DNA-binding domain 1 and methylpurine-DNA glycosylase link transcriptional repression and DNA repair in chromatin. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12859-12864.	7.1	71
20	HMGA1 Is Induced by Wnt/Î²-Catenin Pathway and Maintains Cell Proliferation in Gastric Cancer. American Journal of Pathology, 2009, 175, 1675-1685.	3.8	69
21	Endoplasmic Reticulum (ER) Stress Induces Sirtuin 1 (SIRT1) Expression via the PI3K-Akt-GSK3Î² Signaling Pathway and Promotes Hepatocellular Injury. Journal of Biological Chemistry, 2015, 290, 30366-30374.	3.4	68
22	Histone demethylase LSD1 controls the phenotypic plasticity of cancer cells. Cancer Science, 2016, 107, 1187-1192.	3.9	67
23	The Aryl Hydrocarbon Receptor Nuclear Transporter Is Modulated by the SUMO-1 Conjugation System. Journal of Biological Chemistry, 2002, 277, 46576-46585.	3.4	64
24	In situ SUMOylation analysis reveals a modulatory role of RanBP2 in the nuclear rim and PML bodies. Experimental Cell Research, 2006, 312, 1418-1430.	2.6	63
25	Sall1 Maintains Nephron Progenitors and Nascent Nephrons by Acting as Both an Activator and a Repressor. Journal of the American Society of Nephrology: JASN, 2014, 25, 2584-2595.	6.1	62
26	Computational image analysis of colony and nuclear morphology to evaluate human induced pluripotent stem cells. Scientific Reports, 2014, 4, 6996.	3.3	62
27	Polycomb Group Protein-associated Chromatin Is Reproduced in Post-mitotic G1 Phase and Is Required for S Phase Progression. Journal of Biological Chemistry, 2008, 283, 18905-18915.	3.4	61
28	A cluster of noncoding RNAs activates the ESR1 locus during breast cancer adaptation. Nature Communications, 2015, 6, 6966.	12.8	60
29	The SETD8/PR-Set7 Methyltransferase Functions as a Barrier to Prevent Senescence-Associated Metabolic Remodeling. Cell Reports, 2017, 18, 2148-2161.	6.4	58
30	Glycolytic genes are targets of the nuclear receptor Ad4BP/SF-1. Nature Communications, 2014, 5, 3634.	12.8	57
31	Lys-63-linked Ubiquitination by E3 Ubiquitin Ligase Nedd4-1 Facilitates Endosomal Sequestration of Internalized Î±-Synuclein. Journal of Biological Chemistry, 2014, 289, 18137-18151.	3.4	56
32	Retinoblastoma protein promotes oxidative phosphorylation through upregulation of glycolytic genes in oncogeneâ€induced senescent cells. Aging Cell, 2015, 14, 689-697.	6.7	53
33	MCAF1/AM Is Involved in Sp1-mediated Maintenance of Cancer-associated Telomerase Activity. Journal of Biological Chemistry, 2009, 284, 5165-5174.	3.4	49
34	TET family proteins and 5-hydroxymethylcytosine in esophageal squamous cell carcinoma. Oncotarget, 2015, 6, 23372-23382.	1.8	49
35	Serum response factor is modulated by the SUMO-1 conjugation system. Biochemical and Biophysical Research Communications, 2003, 306, 32-38.	2.1	48
36	HMGA2 promotes adipogenesis by activating C/EBPÎ²-mediated expression of PPARÎ³. Biochemical and Biophysical Research Communications, 2016, 472, 617-623.	2.1	44

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37	The distribution of phosphorylated SR proteins and alternative splicing are regulated by RANBP2. Molecular Biology of the Cell, 2012, 23, 1115-1128.	2.1	37
38	Successful generation of epigenetic disease model mice by targeted demethylation of the epigenome. Genome Biology, 2020, 21, 77.	8.8	37
39	Ki-67 and condensins support the integrity of mitotic chromosomes through distinct mechanisms. Journal of Cell Science, 2018, 131, .	2.0	36
40	LSD1 mediates metabolic reprogramming by glucocorticoids during myogenic differentiation. Nucleic Acids Research, 2018, 46, 5441-5454.	14.5	35
41	Quantitative assessment of higherâ€order chromatin structure of the INK4/ARF locus in human senescent cells. Aging Cell, 2012, 11, 553-556.	6.7	34
42	Metabolismâ€“epigenome crosstalk in physiology and diseases. Journal of Human Genetics, 2013, 58, 410-415.	2.3	34
43	Nrf2 promotes oesophageal cancer cell proliferation via metabolic reprogramming and detoxification of reactive oxygen species. Journal of Pathology, 2018, 244, 346-357.	4.5	30
44	Condensin II plays an essential role in reversible assembly of mitotic chromosomes in situ. Molecular Biology of the Cell, 2017, 28, 2875-2886.	2.1	29
45	Phosphoethanolamine Accumulation Protects Cancer Cells under Glutamine Starvation through Downregulation of PCYT2. Cell Reports, 2019, 29, 89-103.e7.	6.4	29
46	Murine neonatal ketogenesis preserves mitochondrial energetics by preventing protein hyperacetylation. Nature Metabolism, 2021, 3, 196-210.	11.9	29
47	Lysine-Specific Demethylase 2 Suppresses Lipid Influx and Metabolism in Hepatic Cells. Molecular and Cellular Biology, 2015, 35, 1068-1080.	2.3	28
48	A novel inhibitor of farnesyltransferase with a zinc site recognition moiety and a farnesyl group. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 3862-3866.	2.2	28
49	The Eleanor ncRNAs activate the topological domain of the ESR1 locus to balance against apoptosis. Nature Communications, 2019, 10, 3778.	12.8	28
50	Application of targeted enrichment to next-generation sequencing of retroviruses integrated into the host human genome. Scientific Reports, 2016, 6, 28324.	3.3	27
51	Loss of the integral nuclear envelope protein SUN1 induces alteration of nucleoli. Nucleus, 2016, 7, 68-83.	2.2	26
52	High mobility group protein HMGA1 inhibits retinoblastoma proteinâ€mediated cellular G0 arrest. Cancer Science, 2007, 98, 1893-1901.	3.9	25
53	Myeloid Elf-1-like Factor, an ETS Transcription Factor, Up-regulates Lysozyme Transcription in Epithelial Cells through Interaction with Promyelocytic Leukemia Protein. Journal of Biological Chemistry, 2004, 279, 19091-19098.	3.4	24
54	The NSD2/WHSC1/MMSET methyltransferase prevents cellular senescenceâ€associated epigenomic remodeling. Aging Cell, 2020, 19, e13173.	6.7	24

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55	UHRF1 regulates global DNA hypomethylation and is associated with poor prognosis in esophageal squamous cell carcinoma. Oncotarget, 2016, 7, 57821-57831.	1.8	24
56	Regulation of transcription and chromatin by methyl-CpG binding protein MBD1. Brain and Development, 2001, 23, S174-S176.	1.1	23
57	Lysineâ€specific demethylaseâ€1 contributes to malignant behavior by regulation of invasive activity and metabolic shift in esophageal cancer. International Journal of Cancer, 2016, 138, 428-439.	5.1	23
58	Potential Neuroprotective Effects of an LSD1 Inhibitor in Retinal Ganglion Cells via p38 MAPK Activity. , 2016, 57, 6461.		22
59	Endocrine therapy-resistant breast cancer model cells are inhibited by soybean glyceollin I through Eleanor non-coding RNA. Scientific Reports, 2018, 8, 15202.	3.3	21
60	Cellular Senescence Variation by Metabolic and Epigenomic Remodeling. Trends in Cell Biology, 2020, 30, 919-922.	7.9	19
61	Lysine Demethylase 5A Is Required for MYC-Driven Transcription in Multiple Myeloma. Blood Cancer Discovery, 2021, 2, 370-387.	5.0	19
62	CRMP5-associated GTPase (CRAG) Protein Protects Neuronal Cells against Cytotoxicity of Expanded Polyglutamine Protein Partially via c-Fos-dependent Activator Protein-1 Activation. Journal of Biological Chemistry, 2011, 286, 33879-33889.	3.4	16
63	STAT5 Orchestrates Local Epigenetic Changes for Chromatin Accessibility and Rearrangements by Direct Binding to the TCRÎ³ Locus. Journal of Immunology, 2015, 195, 1804-1814.	0.8	16
64	BRD4 promotes metastatic potential in oral squamous cell carcinoma through the epigenetic regulation of the MMP2 gene. British Journal of Cancer, 2020, 123, 580-590.	6.4	16
65	PML-nuclear bodies are involved in cellular serum response. Genes To Cells, 2003, 8, 275-286.	1.2	15
66	Distinct Roles of the NAD+-Sirt1 and FAD-LSD1 Pathways in Metabolic Response and Tissue Development. Trends in Endocrinology and Metabolism, 2019, 30, 409-412.	7.1	15
67	Mesenchymal actomyosin contractility is required for androgen-driven urethral masculinization in mice. Communications Biology, 2019, 2, 95.	4.4	15
68	LSD1 defines erythroleukemia metabolism by controlling the lineage-specific transcription factors GATA1 and C/EBPÎ±. Blood Advances, 2021, 5, 2305-2318.	5.2	15
69	The Transcriptional Cofactor MCAF1/ATF7IP Is Involved in Histone Gene Expression and Cellular Senescence. PLoS ONE, 2013, 8, e68478.	2.5	14
70	The actin family protein ARP6 contributes to the structure and the function of the nucleolus. Biochemical and Biophysical Research Communications, 2015, 464, 554-560.	2.1	14
71	The Glucocorticoid Receptor Regulates the ANGPTL4 Gene in a CTCF-Mediated Chromatin Context in Human Hepatic Cells. PLoS ONE, 2017, 12, e0169225.	2.5	14
72	Promyelocytic leukemia protein induces apoptosis due to caspase-8 activation via the repression of NFÎºB activation in glioblastoma. Neuro-Oncology, 2009, 11, 132-141.	1.2	13

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73	Simian virus 40 large T antigen targets the microtubule-stabilizing protein TACC2. Journal of Cell Science, 2009, 122, 3190-3198.	2.0	13
74	Roles of long noncoding <scp>RNAs</scp> in chromosome domains. Wiley Interdisciplinary Reviews RNA, 2017, 8, e1384.	6.4	12
75	Maternal undernutrition during early pregnancy inhibits postnatal growth of the tibia in the female offspring of rats by alteration of chondrogenesis. General and Comparative Endocrinology, 2018, 260, 58-66.	1.8	11
76	Expression of leukotriene B4 receptor 1 defines functionally distinct DCs that control allergic skin inflammation. Cellular and Molecular Immunology, 2021, 18, 1437-1449.	10.5	11
77	Bivalent-histone-marked immediate-early gene regulation is vital for VEGF-responsive angiogenesis. Cell Reports, 2022, 38, 110332.	6.4	11
78	Ribosomal protein L5 facilitates rDNA-bundled condensate and nucleolar assembly. Life Science Alliance, 2022, 5, e202101045.	2.8	11
79	Computational analysis of morphological and molecular features in gastric cancer tissues. Cancer Medicine, 2020, 9, 2223-2234.	2.8	9
80	SUMO down-regulates the activity of Elf4/Myeloid Elf-1-like factor. Biochemical and Biophysical Research Communications, 2006, 348, 880-888.	2.1	8
81	Hmga1 is differentially expressed and mediates silencing of the CD4/CD8 loci in T cell lineages and leukemic cells. Cancer Science, 2012, 103, 439-447.	3.9	8
82	DNA methylation-independent removable insulator controls chromatin remodeling at theHOXAlocus via retinoic acid signaling. Human Molecular Genetics, 2016, 25, ddw354.	2.9	7
83	High glucoseâ€ROS conditions enhance the progression in cholangiocarcinoma via upregulation of MAN2A2 and CHD8. Cancer Science, 2021, 112, 254-264.	3.9	7
84	Lysineâ€specific demethylaseâ€2 is distinctively involved in brown and beige adipogenic differentiation. FASEB Journal, 2019, 33, 5300-5311.	0.5	6
85	Sexual fate of murine external genitalia development: Conserved transcriptional competency for male-biased genes in both sexes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	6
86	Splicing- and demethylase-independent functions of LSD1 in zebrafish primitive hematopoiesis. Scientific Reports, 2020, 10, 8521.	3.3	6
87	Nucleosome destabilization by nuclear non-coding RNAs. Communications Biology, 2020, 3, 60.	4.4	6
88	Biosynthesis of S-adenosyl-methionine enhances aging-related defects in Drosophila oogenesis. Scientific Reports, 2022, 12, 5593.	3.3	4
89	Histone deacetylation regulates nucleotide excision repair through an interaction with the XPC protein. IScience, 2022, 25, 104040.	4.1	4
90	Epigenetic System: A Pathway to Malignancies and a Therapeutic Target. International Journal of Hematology, 2004, 80, 103-107.	1.6	3

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91	Analysis of estrogen receptor Î² gene methylation in autistic males in a Chinese Han population. Metabolic Brain Disease, 2017, 32, 1033-1042.	2.9	3
92	Cancer Navigation Strategy for Endocrine Therapy-Resistant Breast Tumors. Trends in Cancer, 2018, 4, 404-407.	7.4	3
93	Postweaning Iron Deficiency in Male Rats Leads to Long-Term Hyperactivity and Decreased Reelin Gene Expression in the Nucleus Accumbens. Journal of Nutrition, 2019, 150, 212-221.	2.9	3
94	Loss of the transcription repressor ZHX3 induces senescence-associated gene expression and mitochondrial-nucleolar activation. PLoS ONE, 2022, 17, e0262488.	2.5	3
95	Emerging therapeutic targets in schwannomas and meningiomas: the neurofibromatosis Type 2 protein. Expert Opinion on Therapeutic Targets, 1999, 3, 335-364.	1.0	1