Jun-ichi Nakayama

List of Publications by Year
in descending order

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75 papers	7,005 citations	94433 37 h-index	76900 74 g-index
75 all docs	75 docs citations	75 times ranked	6989 citing authors

#	Article	IF	Citations
1	Role of Histone H3 Lysine 9 Methylation in Epigenetic Control of Heterochromatin Assembly. Science, 2001, 292, 110-113.	12.6	1,575
2	Telomerase activation by hTRT in human normal fibroblasts and hepatocellular carcinomas. Nature Genetics, 1998, 18, 65-68.	21.4	578
3	Maintenance of self-renewal ability of mouse embryonic stem cells in the absence of DNA methyltransferases Dnmt1, Dnmt3a and Dnmt3b. Genes To Cells, 2006, 11, 805-814.	1.2	482
4	TLP1: A Gene Encoding a Protein Component of Mammalian Telomerase Is a Novel Member of WD Repeats Family. Cell, 1997, 88, 875-884.	28.9	367
5	Trimethylated lysine 9 of histone H3 is a mark for DNA methylation in Neurospora crassa. Nature Genetics, 2003, 34, 75-79.	21.4	351
6	Structural Basis of Heterochromatin Formation by Human HP1. Molecular Cell, 2018, 69, 385-397.e8.	9.7	196
7	A chromodomain protein, Chp1, is required for the establishment of heterochromatin in fission yeast. EMBO Journal, 2004, 23, 3825-3835.	7.8	192
8	A Chromodomain Protein, Swi6, Performs Imprinting Functions in Fission Yeast during Mitosis and Meiosis. Cell, 2000, 101, 307-317.	28.9	176
9	Immuno-histochemical detection of human telomerase catalytic component, hTERT, in human colorectal tumor and non-tumor tissue sections. Oncogene, 1999, 18, 1561-1567.	5.9	158
10	The heterochromatin protein Swi6/HP1 activates replication origins at the pericentromeric region and silent mating-type locus. Nature Cell Biology, 2009, 11, 357-362.	10.3	141
11	Physiological Roles of Class I HDAC Complex and Histone Demethylase. Journal of Biomedicine and Biotechnology, 2011, 2011, 1-10.	3.0	128
12	Two different Argonaute complexes are required for siRNA generation and heterochromatin assembly in fission yeast. Nature Structural and Molecular Biology, 2007, 14, 200-207.	8.2	105
13	The UUAG-specific RNA Binding Protein, Heterogeneous Nuclear Ribonucleoprotein D0. Journal of Biological Chemistry, 1995, 270, 22167-22175.	3.4	103
14	Balance between Distinct HP1 Family Proteins Controls Heterochromatin Assembly in Fission Yeast. Molecular and Cellular Biology, 2008, 28, 6973-6988.	2.3	100
15	Telomerase Activity and Telomerase Subunits Gene Expression Patterns in Neuroblastoma: A Molecular and Immunohistochemical Study Establishing Prognostic Tools for Fresh-Frozen and Paraffin-Embedded Tissues. Journal of Clinical Oncology, 2000, 18, 2582-2592.	1.6	98
16	siRNA-Mediated Heterochromatin Establishment Requires HP1 and Is Associated with Antisense Transcription. Molecular Cell, 2008, 31, 178-189.	9.7	98
17	A novel quantitative 'stretch PCR assay', that detects a dramatic increase in telomerase activity during the progression of myeloid leukemias. Oncogene, 1996, 13, 2265-74.	5.9	98
18	Fission yeast CENP-B homologs nucleate centromeric heterochromatin by promoting heterochromatin-specific histone tail modifications. Genes and Development, 2002, 16, 1766-1778.	5.9	97

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19	Presence of telomeric G-strand tails in the telomerase catalytic subunit TERT knockout mice. Genes To Cells, 1999, 4, 563-572.	1.2	94
20	A role for DNA polymerase alpha in epigenetic control of transcriptional silencing in fission yeast. EMBO Journal, 2001, 20, 2857-2866.	7.8	91
21	RBP2 is an MRG15 complex component and down-regulates intragenic histone H3 lysine 4 methylation. Genes To Cells, 2007, 12, 070606122915002-???.	1.2	90
22	Reconstitution of Arabidopsis thaliana SUMO Pathways in E. coli: Functional Evaluation of SUMO Machinery Proteins and Mapping of SUMOylation Sites by Mass Spectrometry. Plant and Cell Physiology, 2009, 50, 1049-1061.	3.1	78
23	MRG15 binds directly to PALB2 and stimulates homology-directed repair of chromosomal breaks. Journal of Cell Science, 2010, 123, 1124-1130.	2.0	73
24	N-Terminal Phosphorylation of HP1Î± Promotes Its Chromatin Binding. Molecular and Cellular Biology, 2011, 31, 1186-1200.	2.3	73
25	Alp13, an MRG family protein, is a component of fission yeast Clr6 histone deacetylase required for genomic integrity. EMBO Journal, 2003, 22, 2776-2787.	7.8	68
26	Physical and Functional Interactions between the Histone H3K4 Demethylase KDM5A and the Nucleosome Remodeling and Deacetylase (NuRD) Complex. Journal of Biological Chemistry, 2014, 289, 28956-28970.	3.4	67
27	Biochemical and structural properties of heterochromatin protein 1: understanding its role in chromatin assembly. Journal of Biochemistry, 2014, 156, 11-20.	1.7	65
28	N-terminal phosphorylation of HP1Î± increases its nucleosome-binding specificity. Nucleic Acids Research, 2014, 42, 12498-12511.	14.5	63
29	Phosphorylation of Swi6/HP1 regulates transcriptional gene silencing at heterochromatin. Genes and Development, 2009, 23, 18-23.	5.9	61
30	Impact of nucleic acid and methylated H3K9 binding activities of Suv39h1 on its heterochromatin assembly. ELife, 2017, 6, .	6.0	61
31	Conserved Ribonuclease, Eri1, Negatively Regulates Heterochromatin Assembly in Fission Yeast. Current Biology, 2006, 16, 1459-1464.	3.9	56
32	Expression of Telomerase Catalytic Component, Telomerase Reverse Transcriptase, in Human Gastric Carcinomas. Japanese Journal of Cancer Research, 1998, 89, 1099-1103.	1.7	54
33	Intrinsic Nucleic Acid-Binding Activity of Chp1 Chromodomain Is Required for Heterochromatic Gene Silencing. Molecular Cell, 2012, 47, 228-241.	9.7	53
34	Spt6 prevents transcription-coupled loss of posttranslationally modified histone H3. Scientific Reports, 2013, 3, 2186.	3.3	52
35	Immuno-histochemical detection of human telomerase reverse transcriptase in human liver tissues. Oncogene, 2000, 19, 3888-3893.	5.9	50
36	Chromosome-associated RNAâ€“protein complexes promote pairing of homologous chromosomes during meiosis in Schizosaccharomyces pombe. Nature Communications, 2019, 10, 5598.	12.8	47

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37	MRG-1, an autosome-associated protein, silences X-linked genes and protects germline immortality in Caenorhabditis elegans. Development (Cambridge), 2007, 134, 757-767.	2.5	45
38	Immunohistochemical Detection of Human Telomerase Reverse Transcriptase in Normal Mucosa and Precancerous Lesions of the Stomach. Japanese Journal of Cancer Research, 1999, 90, 589-595.	1.7	44
39	Population Genomics of the Fission Yeast Schizosaccharomyces pombe. PLoS ONE, 2014, 9, e104241.	2.5	44
40	A Conserved SET Domain Methyltransferase, Set11, Modifies Ribosomal Protein Rpl12 in Fission Yeast. Journal of Biological Chemistry, 2008, 283, 7185-7195.	3.4	38
41	H3K14 ubiquitylation promotes H3K9 methylation for heterochromatin assembly. EMBO Reports, 2019, 20, e48111.	4.5	35
42	RNA and epigenetic silencing: Insight from fission yeast. Development Growth and Differentiation, 2012, 54, 129-141.	1.5	34
43	Gene Expression and Distribution of Swi6 in Partial Aneuploids of the Fission Yeast Schizosaccharomyces pombe. Cell Structure and Function, 2007, 32, 149-161.	1.1	31
44	Phosphorylation of CBX2 controls its nucleosome-binding specificity. Journal of Biochemistry, 2017, 162, 343-355.	1.7	31
45	Heterochromatin protein 1 homologue Swi6 acts in concert with Ers1 to regulate RNAi-directed heterochromatin assembly. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6159-6164.	7.1	30
46	Acetylated YY1 regulates Otx2 expression in anterior neuroectoderm at two cis-sites 90 kb apart. EMBO Journal, 2007, 26, 1649-1659.	7.8	28
47	Methylation of Ribosomal Protein L42 Regulates Ribosomal Function and Stress-adapted Cell Growth. Journal of Biological Chemistry, 2010, 285, 22448-22460.	3.4	27
48	Single Cell Visualization of Yeast Gene Expression Shows Correlation of Epigenetic Switching between Multiple Heterochromatic Regions through Multiple Generations. PLoS Biology, 2013, 11, e1001601.	5.6	27
49	Regulation of mitotic recombination between DNA repeats in centromeres. Nucleic Acids Research, 2017, 45, 11222-11235.	14.5	26
50	Two Different Replication Factor C Proteins, Ctf18 and RFC1, Separately Control PCNA-CRL4^{Cdt2}-Mediated Cdt1 Proteolysis during S Phase and following UV Irradiation. Molecular and Cellular Biology, 2012, 32, 2279-2288.	2.3	24
51	Property of cold inducible DEAD-box RNA helicase in hyperthermophilic archaea. Biochemical and Biophysical Research Communications, 2009, 389, 622-627.	2.1	23
52	Roles of Fission Yeast Grc3 Protein in Ribosomal RNA Processing and Heterochromatic Gene Silencing. Journal of Biological Chemistry, 2011, 286, 15391-15402.	3.4	23
53	Extended string-like binding of the phosphorylated HP1Î± N-terminal tail to the lysine 9-methylated histone H3 tail. Scientific Reports, 2016, 6, 22527.	3.3	23
54	A novel RNAi protein, Dsh1, assembles RNAi machinery on chromatin to amplify heterochromatic siRNA. Genes and Development, 2012, 26, 1811-1824.	5.9	22

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55	Comparative Gene Mapping of the Human and Mouse TEP1 Genes, Which Encode One Protein Component of Telomerases. Genomics, 1997, 46, 46-50.	2.9	18
56	Nuclear RanGAP Is Required for the Heterochromatin Assembly and Is Reciprocally Regulated by Histone H3 and Clr4 Histone Methyltransferase in Schizosaccharomyces pombe. Molecular Biology of the Cell, 2006, 17, 2524-2536.	2.1	18
57	<scp>C</scp>â€terminus of the <scp>S</scp>gf73 subunit of <scp>SAGA</scp> and <scp>SLIK</scp> is important for retention in the larger complex and for heterochromatin boundary function. Genes To Cells, 2013, 18, 823-837.	1.2	17
58	Leo1 is essential for the dynamic regulation of heterochromatin and gene expression during cellular quiescence. Epigenetics and Chromatin, 2019, 12, 45.	3.9	17
59	Fub1p, a novel protein isolated by boundary screening, binds the proteasome complex. Genes and Genetic Systems, 2011, 86, 305-314.	0.7	16
60	Cancer-related transcription regulator protein NAC1 forms a protein complex with CARM1 for ovarian cancer progression. Oncotarget, 2018, 9, 28408-28420.	1.8	15
61	Fusion of OTT to BSAC Results in Aberrant Up-regulation of Transcriptional Activity. Journal of Biological Chemistry, 2008, 283, 26820-26828.	3.4	13
62	Meiosisâ€specific cohesin component, Rec8, promotes the localization of Mps3 SUN domain protein on the nuclear envelope. Genes To Cells, 2018, 24, 94-106.	1.2	11
63	RNAi-dependent heterochromatin assembly in fission yeast Schizosaccharomyces pombe requires heat-shock molecular chaperones Hsp90 and Mas5. Epigenetics and Chromatin, 2018, 11, 26.	3.9	11
64	Mitotic phosphorylation of HP1Î± regulates its cell cycle-dependent chromatin binding. Journal of Biochemistry, 2019, 165, 433-446.	1.7	10
65	The intron in centromeric noncoding RNA facilitates RNAi-mediated formation of heterochromatin. PLoS Genetics, 2017, 13, e1006606.	3.5	10
66	Efficient synthesis of trans-polyisoprene compounds using two thermostable enzymes in an organicâ€“aqueous dual-liquid phase system. Biochemical and Biophysical Research Communications, 2008, 365, 118-123.	2.1	9
67	Efficient in vitro synthesis of cis-polyisoprenes using a thermostable cis-prenyltransferase from a hyperthermophilic archaeon Thermococcus kodakaraensis. Journal of Biotechnology, 2009, 143, 151-156.	3.8	8
68	Ribosomal protein eL42 contributes to the catalytic activity of the yeast ribosome at the elongation step of translation. Biochimie, 2019, 158, 20-33.	2.6	8
69	Four domains of Ada1 form a heterochromatin boundary through different mechanisms. Genes To Cells, 2016, 21, 1125-1136.	1.2	5
70	The binding of Chp2â€™s chromodomain to methylated H3K9 is essential for Chp2â€™s role in heterochromatin assembly in fission yeast. PLoS ONE, 2018, 13, e0201101.	2.5	5
71	Do the charges matter?â€”balancing the charges of the chromodomain proteins on the nucleosome. Journal of Biochemistry, 2019, 165, 455-458.	1.7	5
72	KDM2A-dependent reduction of rRNA transcription on glucose starvation requires HP1 in cells, including triple-negative breast cancer cells. Oncotarget, 2019, 10, 4743-4760.	1.8	5

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73	A Functional Role for the Monomethylated Gln-51 and Lys-53 Residues of the 49GGQTK53 Motif of eL42 from Human 80S Ribosomes. The Open Biochemistry Journal, 2017, 11, 8-26.	0.5	5
74	Stretch PCR Assay. , 2002, 191, 125-136.		3
75	Gic1 is a novel heterochromatin boundary protein in vivo. Genes and Genetic Systems, 2016, 91, 151-159.	0.7	2