

# Jun-ichi Nakayama

## List of Publications by Year in descending order

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75  
papers

7,005  
citations

108046

37  
h-index

87275

74  
g-index

75  
all docs

75  
docs citations

75  
times ranked

7828  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Leo1 is essential for the dynamic regulation of heterochromatin and gene expression during cellular quiescence. <i>Epigenetics and Chromatin</i> , 2019, 12, 45.                                    | 1.8 | 17        |
| 2  | H3K14 ubiquitylation promotes H3K9 methylation for heterochromatin assembly. <i>EMBO Reports</i> , 2019, 20, e48111.  | 2.0 | 35        |
| 3  | Do the charges matter?â€”balancing the charges of the chromodomain proteins on the nucleosome. <i>Journal of Biochemistry</i> , 2019, 165, 455-458.   | 0.9 | 5         |
| 4  | Chromosome-associated RNAâ€“protein complexes promote pairing of homologous chromosomes during meiosis in <i>Schizosaccharomyces pombe</i> . <i>Nature Communications</i> , 2019, 10, 5598.         | 5.8 | 47        |
| 5  | Mitotic phosphorylation of HP1 $\pm$ regulates its cell cycle-dependent chromatin binding. <i>Journal of Biochemistry</i> , 2019, 165, 433-446.   | 0.9 | 10        |
| 6  | Ribosomal protein eL42 contributes to the catalytic activity of the yeast ribosome at the elongation step of translation. <i>Biochimie</i> , 2019, 158, 20-33.                                      | 1.3 | 8         |
| 7  | KDM2A-dependent reduction of rRNA transcription on glucose starvation requires HP1 in cells, including triple-negative breast cancer cells. <i>Oncotarget</i> , 2019, 10, 4743-4760.                | 0.8 | 5         |
| 8  | Structural Basis of Heterochromatin Formation by Human HP1. <i>Molecular Cell</i> , 2018, 69, 385-397.e8.   | 4.5 | 196       |
| 9  | Meiosisâ€“specific cohesin component, Rec8, promotes the localization of Mps3 SUN domain protein on the nuclear envelope. <i>Genes To Cells</i> , 2018, 24, 94-106.                                 | 0.5 | 11        |
| 10 | RNAi-dependent heterochromatin assembly in fission yeast <i>Schizosaccharomyces pombe</i> requires heat-shock molecular chaperones Hsp90 and Mas5. <i>Epigenetics and Chromatin</i> , 2018, 11, 26. | 1.8 | 11        |
| 11 | The binding of Chp2â€™s chromodomain to methylated H3K9 is essential for Chp2â€™s role in heterochromatin assembly in fission yeast. <i>PLoS ONE</i> , 2018, 13, e0201101.                          | 1.1 | 5         |
| 12 | Cancer-related transcription regulator protein NAC1 forms a protein complex with CARM1 for ovarian cancer progression. <i>Oncotarget</i> , 2018, 9, 28408-28420.                                    | 0.8 | 15        |
| 13 | Phosphorylation of CBX2 controls its nucleosome-binding specificity. <i>Journal of Biochemistry</i> , 2017, 162, 343-355.   | 0.9 | 31        |
| 14 | Regulation of mitotic recombination between DNA repeats in centromeres. <i>Nucleic Acids Research</i> , 2017, 45, 11222-11235.  | 6.5 | 26        |
| 15 | Impact of nucleic acid and methylated H3K9 binding activities of Suv39h1 on its heterochromatin assembly. <i>ELife</i> , 2017, 6, .   | 2.8 | 61        |
| 16 | The intron in centromeric noncoding RNA facilitates RNAi-mediated formation of heterochromatin. <i>PLoS Genetics</i> , 2017, 13, e1006606.  | 1.5 | 10        |
| 17 | A Functional Role for the Monomethylated Gln-51 and Lys-53 Residues of the 49GGQTK53 Motif of eL42 from Human 80S Ribosomes. <i>The Open Biochemistry Journal</i> , 2017, 11, 8-26.                 | 0.3 | 5         |
| 18 | Gic1 is a novel heterochromatin boundary protein in vivo. <i>Genes and Genetic Systems</i> , 2016, 91, 151-159.   | 0.2 | 2         |

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|----|--|-----|-----------|
| 19 | Four domains of Ada1 form a heterochromatin boundary through different mechanisms. <i>Genes To Cells</i> , 2016, 21, 1125-1136.  | 0.5 | 5         |
| 20 | Extended string-like binding of the phosphorylated HP1± N-terminal tail to the lysine 9-methylated histone H3 tail. <i>Scientific Reports</i> , 2016, 6, 22527.  | 1.6 | 23        |
| 21 | Population Genomics of the Fission Yeast <i>Schizosaccharomyces pombe</i> . <i>PLoS ONE</i> , 2014, 9, e104241.  | 1.1 | 44        |
| 22 | Physical and Functional Interactions between the Histone H3K4 Demethylase KDM5A and the Nucleosome Remodeling and Deacetylase (NuRD) Complex. <i>Journal of Biological Chemistry</i> , 2014, 289, 28956-28970.                                 | 1.6 | 67        |
| 23 | N-terminal phosphorylation of HP1± increases its nucleosome-binding specificity. <i>Nucleic Acids Research</i> , 2014, 42, 12498-12511.  | 6.5 | 63        |
| 24 | Biochemical and structural properties of heterochromatin protein 1: understanding its role in chromatin assembly. <i>Journal of Biochemistry</i> , 2014, 156, 11-20.   | 0.9 | 65        |
| 25 | Single Cell Visualization of Yeast Gene Expression Shows Correlation of Epigenetic Switching between Multiple Heterochromatic Regions through Multiple Generations. <i>PLoS Biology</i> , 2013, 11, e1001601.                                  | 2.6 | 27        |
| 26 | C-terminus of the Sgf73 subunit of SAGA and SLIK is important for retention in the larger complex and for heterochromatin boundary function. <i>Genes To Cells</i> , 2013, 18, 823-837.  | 0.5 | 17        |
| 27 | Spt6 prevents transcription-coupled loss of posttranslationally modified histone H3. <i>Scientific Reports</i> , 2013, 3, 2186.  | 1.6 | 52        |
| 28 | Two Different Replication Factor C Proteins, Ctf18 and RFC1, Separately Control PCNA-CRL4 <sup>Cdt2</sup> -Mediated Cdt1 Proteolysis during S Phase and following UV Irradiation. <i>Molecular and Cellular Biology</i> , 2012, 32, 2279-2288. | 1.1 | 24        |
| 29 | Heterochromatin protein 1 homologue Swi6 acts in concert with Ers1 to regulate RNAi-directed heterochromatin assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6159-6164.          | 3.3 | 30        |
| 30 | A novel RNAi protein, Dsh1, assembles RNAi machinery on chromatin to amplify heterochromatic siRNA. <i>Genes and Development</i> , 2012, 26, 1811-1824.  | 2.7 | 22        |
| 31 | Intrinsic Nucleic Acid-Binding Activity of Chp1 Chromodomain Is Required for Heterochromatic Gene Silencing. <i>Molecular Cell</i> , 2012, 47, 228-241.  | 4.5 | 53        |
| 32 | RNA and epigenetic silencing: Insight from fission yeast. <i>Development Growth and Differentiation</i> , 2012, 54, 129-141.   | 0.6 | 34        |
| 33 | N-Terminal Phosphorylation of HP1± Promotes Its Chromatin Binding. <i>Molecular and Cellular Biology</i> , 2011, 31, 1186-1200.  | 1.1 | 73        |
| 34 | Fub1p, a novel protein isolated by boundary screening, binds the proteasome complex. <i>Genes and Genetic Systems</i> , 2011, 86, 305-314.   | 0.2 | 16        |
| 35 | Roles of Fission Yeast Grc3 Protein in Ribosomal RNA Processing and Heterochromatic Gene Silencing. <i>Journal of Biological Chemistry</i> , 2011, 286, 15391-15402.   | 1.6 | 23        |
| 36 | Physiological Roles of Class I HDAC Complex and Histone Demethylase. <i>Journal of Biomedicine and Biotechnology</i> , 2011, 2011, 1-10.   | 3.0 | 128       |

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|----|--|-----|-----------|
| 37 | MRG15 binds directly to PALB2 and stimulates homology-directed repair of chromosomal breaks. <i>Journal of Cell Science</i> , 2010, 123, 1124-1130.  | 1.2 | 73        |
| 38 | Methylation of Ribosomal Protein L42 Regulates Ribosomal Function and Stress-adapted Cell Growth. <i>Journal of Biological Chemistry</i> , 2010, 285, 22448-22460.   | 1.6 | 27        |
| 39 | Phosphorylation of Swi6/HP1 regulates transcriptional gene silencing at heterochromatin. <i>Genes and Development</i> , 2009, 23, 18-23.   | 2.7 | 61        |
| 40 | Reconstitution of Arabidopsis thaliana SUMO Pathways in E. coli: Functional Evaluation of SUMO Machinery Proteins and Mapping of SUMOylation Sites by Mass Spectrometry. <i>Plant and Cell Physiology</i> , 2009, 50, 1049-1061. | 1.5 | 78        |
| 41 | The heterochromatin protein Swi6/HP1 activates replication origins at the pericentromeric region and silent mating-type locus. <i>Nature Cell Biology</i> , 2009, 11, 357-362.   | 4.6 | 141       |
| 42 | Efficient in vitro synthesis of cis-polyisoprenes using a thermostable cis-prenyltransferase from a hyperthermophilic archaeon <i>Thermococcus kodakaraensis</i> . <i>Journal of Biotechnology</i> , 2009, 143, 151-156.         | 1.9 | 8         |
| 43 | Property of cold inducible DEAD-box RNA helicase in hyperthermophilic archaea. <i>Biochemical and Biophysical Research Communications</i> , 2009, 389, 622-627.  | 1.0 | 23        |
| 44 | siRNA-Mediated Heterochromatin Establishment Requires HP1 and Is Associated with Antisense Transcription. <i>Molecular Cell</i> , 2008, 31, 178-189.   | 4.5 | 98        |
| 45 | Balance between Distinct HP1 Family Proteins Controls Heterochromatin Assembly in Fission Yeast. <i>Molecular and Cellular Biology</i> , 2008, 28, 6973-6988.  | 1.1 | 100       |
| 46 | Efficient synthesis of trans-polyisoprene compounds using two thermostable enzymes in an organic-aqueous dual-liquid phase system. <i>Biochemical and Biophysical Research Communications</i> , 2008, 365, 118-123.              | 1.0 | 9         |
| 47 | Fusion of OTT to BSAC Results in Aberrant Up-regulation of Transcriptional Activity. <i>Journal of Biological Chemistry</i> , 2008, 283, 26820-26828.  | 1.6 | 13        |
| 48 | A Conserved SET Domain Methyltransferase, Set11, Modifies Ribosomal Protein Rpl12 in Fission Yeast. <i>Journal of Biological Chemistry</i> , 2008, 283, 7185-7195.   | 1.6 | 38        |
| 49 | MRG-1, an autosome-associated protein, silences X-linked genes and protects germline immortality in <i>Caenorhabditis elegans</i> . <i>Development (Cambridge)</i> , 2007, 134, 757-767.   | 1.2 | 45        |
| 50 | Gene Expression and Distribution of Swi6 in Partial Aneuploids of the Fission Yeast <i>Schizosaccharomyces pombe</i> . <i>Cell Structure and Function</i> , 2007, 32, 149-161.   | 0.5 | 31        |
| 51 | Acetylated YY1 regulates Otx2 expression in anterior neuroectoderm at two cis-sites 90 kb apart. <i>EMBO Journal</i> , 2007, 26, 1649-1659.  | 3.5 | 28        |
| 52 | Two different Argonaute complexes are required for siRNA generation and heterochromatin assembly in fission yeast. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 200-207.   | 3.6 | 105       |
| 53 | RBP2 is an MRG15 complex component and down-regulates intragenic histone H3 lysine 4 methylation. <i>Genes To Cells</i> , 2007, 12, 070606122915002-???  | 0.5 | 90        |
| 54 | Maintenance of self-renewal ability of mouse embryonic stem cells in the absence of DNA methyltransferases Dnmt1, Dnmt3a and Dnmt3b. <i>Genes To Cells</i> , 2006, 11, 805-814.  | 0.5 | 482       |

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|----|---|------|-----------|
| 55 | Conserved Ribonuclease, Eri1, Negatively Regulates Heterochromatin Assembly in Fission Yeast. <i>Current Biology</i> , 2006, 16, 1459-1464.   | 1.8  | 56        |
| 56 | Nuclear RanGAP Is Required for the Heterochromatin Assembly and Is Reciprocally Regulated by Histone H3 and Clr4 Histone Methyltransferase in <i>Schizosaccharomyces pombe</i> . <i>Molecular Biology of the Cell</i> , 2006, 17, 2524-2536.                              | 0.9  | 18        |
| 57 | A chromodomain protein, Chp1, is required for the establishment of heterochromatin in fission yeast. <i>EMBO Journal</i> , 2004, 23, 3825-3835.   | 3.5  | 192       |
| 58 | Alp13, an MRG family protein, is a component of fission yeast Clr6 histone deacetylase required for genomic integrity. <i>EMBO Journal</i> , 2003, 22, 2776-2787.   | 3.5  | 68        |
| 59 | Trimethylated lysine 9 of histone H3 is a mark for DNA methylation in <i>Neurospora crassa</i> . <i>Nature Genetics</i> , 2003, 34, 75-79.  | 9.4  | 351       |
| 60 | Fission yeast CENP-B homologs nucleate centromeric heterochromatin by promoting heterochromatin-specific histone tail modifications. <i>Genes and Development</i> , 2002, 16, 1766-1778.  | 2.7  | 97        |
| 61 | Stretch PCR Assay. , 2002, 191, 125-136.  |      | 3         |
| 62 | Role of Histone H3 Lysine 9 Methylation in Epigenetic Control of Heterochromatin Assembly. <i>Science</i> , 2001, 292, 110-113.   | 6.0  | 1,575     |
| 63 | A role for DNA polymerase alpha in epigenetic control of transcriptional silencing in fission yeast. <i>EMBO Journal</i> , 2001, 20, 2857-2866.   | 3.5  | 91        |
| 64 | Immuno-histochemical detection of human telomerase reverse transcriptase in human liver tissues. <i>Oncogene</i> , 2000, 19, 3888-3893.   | 2.6  | 50        |
| 65 | 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. <i>Journal of Clinical Oncology</i> , 2000, 18, 2582-2592. | 0.8  | 98        |
| 66 | A Chromodomain Protein, Swi6, Performs Imprinting Functions in Fission Yeast during Mitosis and Meiosis. <i>Cell</i> , 2000, 101, 307-317.  | 13.5 | 176       |
| 67 | Presence of telomeric G-strand tails in the telomerase catalytic subunit TERT knockout mice. <i>Genes To Cells</i> , 1999, 4, 563-572.  | 0.5  | 94        |
| 68 | Immunohistochemical Detection of Human Telomerase Reverse Transcriptase in Normal Mucosa and Precancerous Lesions of the Stomach. <i>Japanese Journal of Cancer Research</i> , 1999, 90, 589-595.   | 1.7  | 44        |
| 69 | Immuno-histochemical detection of human telomerase catalytic component, hTERT, in human colorectal tumor and non-tumor tissue sections. <i>Oncogene</i> , 1999, 18, 1561-1567.  | 2.6  | 158       |
| 70 | Expression of Telomerase Catalytic Component, Telomerase Reverse Transcriptase, in Human Gastric Carcinomas. <i>Japanese Journal of Cancer Research</i> , 1998, 89, 1099-1103.  | 1.7  | 54        |
| 71 | Telomerase activation by hTERT in human normal fibroblasts and hepatocellular carcinomas. <i>Nature Genetics</i> , 1998, 18, 65-68.   | 9.4  | 578       |
| 72 | Comparative Gene Mapping of the Human and Mouse TEP1 Genes, Which Encode One Protein Component of Telomerases. <i>Genomics</i> , 1997, 46, 46-50.   | 1.3  | 18        |

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|----|---|------|-----------|
| 73 | TLP1: A Gene Encoding a Protein Component of Mammalian Telomerase Is a Novel Member of WD Repeats Family. <i>Cell</i> , 1997, 88, 875-884.  | 13.5 | 367       |
| 74 | A novel quantitative 'stretch PCR assay', that detects a dramatic increase in telomerase activity during the progression of myeloid leukemias. <i>Oncogene</i> , 1996, 13, 2265-74. | 2.6  | 98        |
| 75 | The UUAG-specific RNA Binding Protein, Heterogeneous Nuclear Ribonucleoprotein D0. <i>Journal of Biological Chemistry</i> , 1995, 270, 22167-22175.                                 | 1.6  | 103       |