

Hiroyuki Araki

List of Publications by Year in descending order

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65
papers

4,367
citations

159585

30
h-index

128289

60
g-index

66
all docs

66
docs citations

66
times ranked

2373
citing authors

#	ARTICLE	IF	CITATIONS
1	CDK-dependent phosphorylation of Sld2 and Sld3 initiates DNA replication in budding yeast. <i>Nature</i> , 2007, 445, 328-332.	27.8	419
2	A third essential DNA polymerase in <i>S. cerevisiae</i> . <i>Cell</i> , 1990, 62, 1143-1151.	28.9	365
3	GIN5, a novel multiprotein complex required for chromosomal DNA replication in budding yeast. <i>Genes and Development</i> , 2003, 17, 1153-1165.	5.9	320
4	Origin Association of Sld3, Sld7, and Cdc45 Proteins Is a Key Step for Determination of Origin-Firing Timing. <i>Current Biology</i> , 2011, 21, 2055-2063.	3.9	232
5	CDK-dependent complex formation between replication proteins Dpb11, Sld2, Pol ϵ , and GINS in budding yeast. <i>Genes and Development</i> , 2010, 24, 602-612.	5.9	224
6	S-Cdk-dependent phosphorylation of Sld2 essential for chromosomal DNA replication in budding yeast. <i>Nature</i> , 2002, 415, 651-655.	27.8	194
7	A novel ring-like complex of <i>Xenopus</i> proteins essential for the initiation of DNA replication. <i>Genes and Development</i> , 2003, 17, 1141-1152.	5.9	181
8	Dpb11 Controls the Association between DNA Polymerases α and ϵ and the Autonomously Replicating Sequence Region of Budding Yeast. <i>Molecular and Cellular Biology</i> , 2000, 20, 2809-2817.	2.3	169
9	Sld2, Which Interacts with Dpb11 in <i>Saccharomyces cerevisiae</i> , Is Required for Chromosomal DNA Replication. <i>Molecular and Cellular Biology</i> , 1998, 18, 6102-6109.	2.3	160
10	Molecular and functional organization of yeast plasmid pSR1. <i>Journal of Molecular Biology</i> , 1985, 182, 191-203.	4.2	149
11	Helicase Activation and Establishment of Replication Forks at Chromosomal Origins of Replication. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013, 5, a010371-a010371.	5.5	144
12	Kinetochores Coordinate Pericentromeric Cohesion and Early DNA Replication by Cdc7-Dbf4 Kinase Recruitment. <i>Molecular Cell</i> , 2013, 50, 661-674.	9.7	140
13	Noncompetitive Counteractions of DNA Polymerase μ and ISW2/yCHRAC for Epigenetic Inheritance of Telomere Position Effect in <i>Saccharomyces cerevisiae</i> . <i>Molecular and Cellular Biology</i> , 2004, 24, 217-227.	2.3	119
14	Cloning DPB3, the gene encoding the third subunit of DNA polymerase II of <i>Saccharomyces cerevisiae</i> . <i>Nucleic Acids Research</i> , 1991, 19, 4867-4872.	14.5	98
15	A CDK-catalysed regulatory phosphorylation for formation of the DNA replication complex Sld2 ϵ -Dpb11. <i>EMBO Journal</i> , 2006, 25, 1987-1996.	7.8	97
16	The <i>RFC2</i> Gene, Encoding the Third-Largest Subunit of the Replication Factor C Complex, Is Required for an S-Phase Checkpoint in <i>Saccharomyces cerevisiae</i> . <i>Molecular and Cellular Biology</i> , 1998, 18, 4914-4923.	2.3	84
17	Ctf4 coordinates the progression of helicase and DNA polymerase α . <i>Genes To Cells</i> , 2009, 14, 807-820.	1.2	82
18	Cyclin-dependent kinase-dependent initiation of chromosomal DNA replication. <i>Current Opinion in Cell Biology</i> , 2010, 22, 766-771.	5.4	67

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19	The Direct Binding of Mrc1, a Checkpoint Mediator, to Mcm6, a Replication Helicase, Is Essential for the Replication Checkpoint against Methyl Methanesulfonate-Induced Stress. <i>Molecular and Cellular Biology</i> , 2009, 29, 5008-5019.	2.3	60
20	Regulation of the initiation step of DNA replication by cyclin-dependent kinases. <i>Chromosoma</i> , 2010, 119, 565-574.	2.2	59
21	A gene, SMP2, involved in plasmid maintenance and respiration in <i>Saccharomyces cerevisiae</i> encodes a highly charged protein. <i>Molecular Genetics and Genomics</i> , 1993, 236-236, 283-288.	2.4	58
22	The role of CDK in the initiation step of DNA replication in eukaryotes. <i>Cell Division</i> , 2007, 2, 16.	2.4	58
23	Sld7, an Sld3-associated protein required for efficient chromosomal DNA replication in budding yeast. <i>EMBO Journal</i> , 2011, 30, 2019-2030.	7.8	53
24	Loading and activation of DNA replicative helicases: the key step of initiation of DNA replication. <i>Genes To Cells</i> , 2013, 18, 266-277.	1.2	52
25	Site-specific recombinase, R, encoded by yeast plasmid pSR1. <i>Journal of Molecular Biology</i> , 1992, 225, 25-37.	4.2	46
26	Efficient Initiation of DNA Replication in Eukaryotes Requires Dpb11/TopBP1-GINS Interaction. <i>Molecular and Cellular Biology</i> , 2013, 33, 2614-2622.	2.3	45
27	The RFC2 gene encoding a subunit of replication factor C of <i>Saccharomyces cerevisiae</i> . <i>Nucleic Acids Research</i> , 1994, 22, 1527-1535.	14.5	42
28	iAID: an improved auxin-inducible degron system for the construction of a conditional mutant in the budding yeast <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2015, 32, 567-581.	1.7	40
29	Multiple Regulatory Mechanisms to Inhibit Untimely Initiation of DNA Replication Are Important for Stable Genome Maintenance. <i>PLoS Genetics</i> , 2011, 7, e1002136.	3.5	35
30	DNA polymerase δ -dependent modulation of the pausing property of the CMG helicase at the barrier. <i>Genes and Development</i> , 2018, 32, 1315-1320.	5.9	34
31	The quaternary structure of the eukaryotic DNA replication proteins Sld7 and Sld3. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 1649-1656.	2.5	34
32	Half-site recombinations mediated by yeast site-specific recombinases Flp and R. <i>Journal of Molecular Biology</i> , 1992, 225, 621-642.	4.2	32
33	Pre-initiation complex assembly functions as a molecular switch that splits the Mcm double hexamer. <i>EMBO Reports</i> , 2017, 18, 1752-1761.	4.5	32
34	Crystal Structure of the Homology Domain of the Eukaryotic DNA Replication Proteins Sld3/Treslin. <i>Structure</i> , 2014, 22, 1341-1347.	3.3	31
35	Fidelity consequences of the impaired interaction between DNA polymerase epsilon and the GINS complex. <i>DNA Repair</i> , 2015, 29, 23-35.	2.8	29
36	Functional analysis of Box II mutations in yeast site-specific recombinases Flp and R. <i>Journal of Molecular Biology</i> , 1992, 228, 1091-1103.	4.2	27

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37	Initiation of chromosomal DNA replication in eukaryotic cells; contribution of yeast genetics to the elucidation. <i>Genes and Genetic Systems</i> , 2011, 86, 141-149.	0.7	27
38	Mutations in a <i>Saccharomyces cerevisiae</i> host showing increased holding stability of the heterologous plasmid pSR1. <i>Molecular Genetics and Genomics</i> , 1991, 225, 257-265.	2.4	26
39	A T7 amber mutant defective in DNA-Binding protein. <i>Molecular Genetics and Genomics</i> , 1981, 183, 66-73.	2.4	24
40	Concerted interaction between origin recognition complex (<sc>ORC</sc>), nucleosomes and replication origin <sc>DNA</sc> ensures stable <sc>ORC</sc>“origin binding. <i>Genes To Cells</i> , 2013, 18, 764-779.	1.2	24
41	The participation of T7 DNA-binding protein in T7 genetic recombination. <i>Virology</i> , 1981, 111, 509-515.	2.4	23
42	Factors encoded by and affecting the holding stability of yeast plasmid pSR1. <i>Molecular Genetics and Genomics</i> , 1987, 206, 88-94.	2.4	23
43	Construction of a host-vector system in the osmophilic haploid yeast <i>Zygosaccharomyces rouxii</i> . <i>Journal of Fermentation Technology</i> , 1988, 66, 481-488.	0.5	23
44	Conserved interaction of Ctf18“<sc>RFC</sc> with <sc>DNA</sc> polymerase Îµ is critical for maintenance of genome stability in <i>Saccharomyces cerevisiae</i> . <i>Genes To Cells</i> , 2016, 21, 482-491.	1.2	19
45	Replication fork pausing at protein barriers on chromosomes. <i>FEBS Letters</i> , 2019, 593, 1449-1458.	2.8	19
46	The CDC26 gene of <i>Saccharomyces cerevisiae</i> is required for cell growth only at high temperature. <i>Molecular Genetics and Genomics</i> , 1992, 231, 329-331.	2.4	17
47	DNA polymerase Îµ encoded by <i>bycdc20</i> is required for chromosomal DNA replication in the fission yeast <i>Schizosaccharomyces pombe</i> . <i>Genes To Cells</i> , 1998, 3, 99-110.	1.2	17
48	GIN5 Is a DNA Polymerase Îµ Accessory Factor during Chromosomal DNA Replication in Budding Yeast. <i>Journal of Biological Chemistry</i> , 2006, 281, 21422-21432.	3.4	17
49	A cis-acting locus for the stable propagation of yeast plasmid pSR1. <i>Molecular Genetics and Genomics</i> , 1987, 207, 355-360.	2.4	16
50	An autonomously replicating sequence of pSR1 plasmid is effective in two yeast species, <i>Zygosaccharomyces rouxii</i> and <i>Saccharomyces cerevisiae</i> . <i>Journal of Molecular Biology</i> , 1989, 207, 757-769.	4.2	16
51	Regulatory mechanism of the initiation step of DNA replication by CDK in budding yeast. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 520-523.	2.3	13
52	Elucidating the <sc>DDK</sc> “dependent step in replication initiation. <i>EMBO Journal</i> , 2016, 35, 907-908.	7.8	13
53	Flexible DNA Path in the MCM Double Hexamer Loaded on DNA. <i>Biochemistry</i> , 2017, 56, 2435-2445.	2.5	9
54	TORC1 signaling regulates DNA replication via DNA replication protein levels. <i>Biochemical and Biophysical Research Communications</i> , 2018, 505, 1128-1133.	2.1	6

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55	Recombination and Pol δ Rescue Defective DNA Replication upon Impaired CMG Helicase-Pol δ Interaction. International Journal of Molecular Sciences, 2020, 21, 9484.	4.1	5
56	Chromosome Engineering in Yeast with a Site-Specific Recombination System from a Heterologous Yeast Plasmid. , 1996, 53, 217-226.		4
57	CDK phosphorylation regulates Mcm3 degradation in budding yeast. Biochemical and Biophysical Research Communications, 2018, 506, 680-684.	2.1	4
58	Increased contribution of DNA polymerase delta to the leading strand replication in yeast with an impaired CMG helicase complex. DNA Repair, 2022, 110, 103272.	2.8	4
59	Historical view of DNA replication studies, with special reference to Japan. IUBMB Life, 2006, 58, 323-327.	3.4	3
60	Molecular Mechanism of DNA Replication. , 2016, , 3-22.		2
61	Novel amber mutants of bacteriophage T7, growth of which depends on Escherichia coli DNA-binding protein. Virology, 1982, 118, 260-262.	2.4	1
62	A specific host factor binds at a cis-acting transcriptionally silent locus required for stability control of yeast plasmid pSR1. Molecular Genetics and Genomics, 1993, 238-238, 120-128.	2.4	1
63	Purification of Bacteriophage T7 DNA-Membrane Complex and Its Application to the In Vitro Recombination Reaction1. Journal of Biochemistry, 1985, 98, 1473-1485.	1.7	0
64	2P-020 Structural study on molecular switching mechanism by phosphorylation of Sld2(Protein:Structure & Function,The 47th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2009, 49, S109.	0.1	0
65	CDK-dependent assembly of replication proteins at the initiation step of chromosomal DNA replication. FASEB Journal, 2009, 23, 78.3.	0.5	0