

Chikahide Masutani

List of Publications by Year in descending order

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9,067
citations

50276

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all docs

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docs citations

92
times ranked

4900
citing authors

#	ARTICLE	IF	CITATIONS
1	The XPV (xeroderma pigmentosum variant) gene encodes human DNA polymerase $\hat{\epsilon}$. <i>Nature</i> , 1999, 399, 700-704.	27.8	1,248
2	Xeroderma Pigmentosum Group C Protein Complex Is the Initiator of Global Genome Nucleotide Excision Repair. <i>Molecular Cell</i> , 1998, 2, 223-232.	9.7	796
3	A multistep damage recognition mechanism for global genomic nucleotide excision repair. <i>Genes and Development</i> , 2001, 15, 507-521.	5.9	378
4	Low fidelity DNA synthesis by human DNA polymerase $\hat{\epsilon}$. <i>Nature</i> , 2000, 404, 1011-1013.	27.8	356
5	Structure and mechanism of human DNA polymerase $\hat{\epsilon}$. <i>Nature</i> , 2010, 465, 1044-1048.	27.8	300
6	Centrosome Protein Centrin 2/Caltractin 1 Is Part of the Xeroderma Pigmentosum Group C Complex That Initiates Global Genome Nucleotide Excision Repair. <i>Journal of Biological Chemistry</i> , 2001, 276, 18665-18672.	3.4	290
7	Error-prone bypass of certain DNA lesions by the human DNA polymerase $\hat{\epsilon}$. <i>Genes and Development</i> , 2000, 14, 1589-1594.	5.9	250
8	Interaction of hREV1 with three human Y-family DNA polymerases. <i>Genes To Cells</i> , 2004, 9, 523-531.	1.2	244
9	Interaction of hHR23 with S5a. <i>Journal of Biological Chemistry</i> , 1999, 274, 28019-28025.	3.4	243
10	Preferential cis- $\hat{\epsilon}$ syn thymine dimer bypass by DNA polymerase $\hat{\epsilon}$ occurs with biased fidelity. <i>Nature</i> , 2004, 428, 97-100.	27.8	241
11	The Xeroderma Pigmentosum Group C Protein Complex XPC-HR23B Plays an Important Role in the Recruitment of Transcription Factor IIH to Damaged DNA. <i>Journal of Biological Chemistry</i> , 2000, 275, 9870-9875.	3.4	240
12	Dual Roles for DNA Polymerase $\hat{\epsilon}$ in Homologous DNA Recombination and Translesion DNA Synthesis. <i>Molecular Cell</i> , 2005, 20, 793-799.	9.7	230
13	Centrin 2 Stimulates Nucleotide Excision Repair by Interacting with Xeroderma Pigmentosum Group C Protein. <i>Molecular and Cellular Biology</i> , 2005, 25, 5664-5674.	2.3	225
14	Efficient Translesion Replication Past Oxaliplatin and Cisplatin GpG Adducts by Human DNA Polymerase $\hat{\epsilon}$. <i>Biochemistry</i> , 2000, 39, 4575-4580.	2.5	209
15	High-efficiency bypass of DNA damage by human DNA polymerase $\hat{\epsilon}$. <i>EMBO Journal</i> , 2004, 23, 4484-4494.	7.8	186
16	Error rate and specificity of human and murine DNA polymerase $\hat{\epsilon}$. <i>Journal of Molecular Biology</i> , 2001, 312, 335-346.	4.2	171
17	129-derived Strains of Mice Are Deficient in DNA Polymerase $\hat{\epsilon}$ and Have Normal Immunoglobulin Hypermutation. <i>Journal of Experimental Medicine</i> , 2003, 198, 635-643.	8.5	169
18	Characterization of DNA Recognition by the Human UV-damaged DNA-binding Protein. <i>Journal of Biological Chemistry</i> , 1999, 274, 20027-20033.	3.4	165

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19	Molecular analysis of mutations in DNA polymerase δ in xeroderma pigmentosum-variant patients. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 815-820.	7.1	165
20	DNA Repair Protein XPA Binds Replication Protein A (RPA). Journal of Biological Chemistry, 1995, 270, 4152-4157.	3.4	150
21	Translesion Synthesis by Human DNA Polymerase δ across Thymine Glycol Lesions. Biochemistry, 2002, 41, 6090-6099.	2.5	132
22	Different mutation signatures in DNA polymerase δ - and MSH6-deficient mice suggest separate roles in antibody diversification. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8656-8661.	7.1	115
23	Oxygen Free Radical Damage to DNA. Journal of Biological Chemistry, 2001, 276, 49283-49288.	3.4	111
24	3-Methyladenine-DNA Glycosylase (MPG Protein) Interacts with Human RAD23 Proteins. Journal of Biological Chemistry, 2000, 275, 28433-28438.	3.4	109
25	Diversity of the damage recognition step in the global genomic nucleotide excision repair in vitro. Mutation Research DNA Repair, 2001, 485, 219-227.	3.7	109
26	UV-B Radiation Induces Epithelial Tumors in Mice Lacking DNA Polymerase δ and Mesenchymal Tumors in Mice Deficient for DNA Polymerase β . Molecular and Cellular Biology, 2006, 26, 7696-7706.	2.3	102
27	Palm Mutants in DNA Polymerases δ and ϵ Alter DNA Replication Fidelity and Translesion Activity. Molecular and Cellular Biology, 2004, 24, 2734-2746.	2.3	83
28	The carboxy-terminal domain of the XPC protein plays a crucial role in nucleotide excision repair through interactions with transcription factor IIH. DNA Repair, 2002, 1, 449-461.	2.8	82
29	Translesion DNA Synthesis Catalyzed by Human Pol δ and Pol ϵ across 1,N 6-Ethenodeoxyadenosine. Journal of Biological Chemistry, 2001, 276, 18717-18721.	3.4	80
30	Preferential Misincorporation of Purine Nucleotides by Human DNA Polymerase δ Opposite Benzo[a]pyrene 7,8-Diol 9,10-Epoxydeoxyguanosine Adducts. Journal of Biological Chemistry, 2002, 277, 11765-11771.	3.4	80
31	Proofreading of DNA Polymerase δ -dependent Replication Errors. Journal of Biological Chemistry, 2001, 276, 2317-2320.	3.4	73
32	DNA binding properties of human DNA polymerase δ : implications for fidelity and polymerase switching of translesion synthesis. Genes To Cells, 2004, 9, 1139-1150.	1.2	70
33	Erroneous incorporation of oxidized DNA precursors by γ -family DNA polymerases. EMBO Reports, 2003, 4, 269-273.	4.5	69
34	DNA Polymerases δ and ϵ Function in the Same Genetic Pathway to Generate Mutations at A/T during Somatic Hypermutation of Ig Genes*. Journal of Biological Chemistry, 2007, 282, 17387-17394.	3.4	62
35	Genomic structure, chromosomal localization and identification of mutations in the xeroderma pigmentosum variant (XPV) gene. Oncogene, 2000, 19, 4721-4728.	5.9	58
36	The Molecular Chaperone Hsp90 Regulates Accumulation of DNA Polymerase δ at Replication Stalling Sites in UV-Irradiated Cells. Molecular Cell, 2010, 37, 79-89.	9.7	58

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37	Miscoding Properties of 2-Deoxyinosine, a Nitric Oxide-Derived DNA Adduct, during Translesion Synthesis Catalyzed by Human DNA Polymerases. <i>Journal of Molecular Biology</i> , 2008, 377, 1015-1023.	4.2	57
38	A human DNA polymerase η complex containing Rad18, Rad6 and Rev1; proteomic analysis and targeting of the complex to the chromatin-bound fraction of cells undergoing replication fork arrest. <i>Genes To Cells</i> , 2006, 11, 731-744.	1.2	55
39	NBS1 Recruits RAD18 via a RAD6-like Domain and Regulates Pol η -Dependent Translesion DNA Synthesis. <i>Molecular Cell</i> , 2011, 43, 788-797.	9.7	55
40	USP7 Is a Suppressor of PCNA Ubiquitination and Oxidative-Stress-Induced Mutagenesis in Human Cells. <i>Cell Reports</i> , 2015, 13, 2072-2080.	6.4	55
41	Simultaneous Disruption of Two DNA Polymerases, Pol η and Pol ζ , in Avian DT40 Cells Unmasks the Role of Pol η in Cellular Response to Various DNA Lesions. <i>PLoS Genetics</i> , 2010, 6, e1001151.	3.5	54
42	In vitro Replication Study of Modified bases in ras Sequences. <i>Chemical and Pharmaceutical Bulletin</i> , 1992, 40, 2792-2795.	1.3	53
43	Efficiency of Extension of Mismatched Primer Termini across from Cisplatin and Oxaliplatin Adducts by Human DNA Polymerases β and η in Vitro. <i>Biochemistry</i> , 2003, 42, 14197-14206.	2.5	53
44	Interaction with DNA polymerase η is required for nuclear accumulation of REV1 and suppression of spontaneous mutations in human cells. <i>DNA Repair</i> , 2009, 8, 585-599.	2.8	53
45	En bloc transfer of polyubiquitin chains to PCNA in vitro is mediated by two different human E2-E3 pairs. <i>Nucleic Acids Research</i> , 2012, 40, 10394-10407.	14.5	53
46	Penicillioles A and B, novel inhibitors specific to mammalian Y-family DNA polymerases. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 1811-1816.	3.0	48
47	Different types of interaction between PCNA and PIP boxes contribute to distinct cellular functions of Y-family DNA polymerases. <i>Nucleic Acids Research</i> , 2015, 43, 7898-7910.	14.5	47
48	An abasic site analogue activates a c-Ha-ras gene by a point mutation at modified and adjacent positions. <i>Nucleic Acids Research</i> , 1992, 20, 4409-4415.	14.5	46
49	Frameshifts and deletions during in vitro translesion synthesis past DNA adducts by DNA polymerases β and η . <i>DNA Repair</i> , 2002, 1, 1003-1016.	2.8	43
50	Regulation of DNA damage tolerance in mammalian cells by post-translational modifications of PCNA. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2017, 803-805, 82-88.	1.0	43
51	Mutagenic and Nonmutagenic Bypass of DNA Lesions by <i>Drosophila</i> DNA Polymerases δ and δ . <i>Journal of Biological Chemistry</i> , 2001, 276, 15155-15163.	3.4	35
52	Efficient and Erroneous Incorporation of Oxidized DNA Precursors by Human DNA Polymerase η . <i>Biochemistry</i> , 2007, 46, 5515-5522.	2.5	34
53	Molecular Chaperone Hsp90 Regulates REV1-Mediated Mutagenesis. <i>Molecular and Cellular Biology</i> , 2011, 31, 3396-3409.	2.3	33
54	Characterization of a Y-Family DNA Polymerase η from the Eukaryotic Thermophile <i>Alvinella pompejana</i> . <i>Journal of Nucleic Acids</i> , 2010, 2010, 1-13.	1.2	32

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55	Comparison of Incorporation and Extension of Nucleotides in vitro opposite 8-Hydroxyguanine (7,8-Dihydro-8-oxoguanine) in Hot Spots of the c-Ha-ras Gene. Japanese Journal of Cancer Research, 1995, 86, 270-276.	1.7	31
56	Reconstitution of damage DNA excision reaction from SV40 minichromosomes with purified nucleotide excision repair proteins. Mutation Research DNA Repair, 2000, 459, 147-160.	3.7	31
57	Chemical synthesis and translesion replication of a cis-syn cyclobutane thymine-uracil dimer. Nucleic Acids Research, 2004, 32, 1738-1745.	14.5	30
58	Guanine- 5-carboxylcytosine base pairs mimic mismatches during DNA replication. Scientific Reports, 2014, 4, 5220.	3.3	27
59	A Second Proliferating Cell Nuclear Antigen Loader Complex, Ctf18-Replication Factor C, Stimulates DNA Polymerase δ Activity*. Journal of Biological Chemistry, 2007, 282, 20906-20914.	3.4	26
60	Critical amino acids in human DNA polymerases δ and ϵ involved in erroneous incorporation of oxidized nucleotides. Nucleic Acids Research, 2010, 38, 859-867.	14.5	26
61	Translesion Synthesis Past Estrogen-Derived DNA Adducts by Human DNA Polymerases δ and ϵ . Biochemistry, 2004, 43, 6304-6311.	2.5	25
62	Deficiency of the Caenorhabditis elegans DNA Polymerase .ETA. Homologue Increases Sensitivity to UV Radiation during Germ-line Development. Cell Structure and Function, 2006, 31, 29-37.	1.1	24
63	Spatiotemporal regulation of PCNA ubiquitination in damage tolerance pathways. Critical Reviews in Biochemistry and Molecular Biology, 2019, 54, 418-442.	5.2	23
64	Cyclobutane thymine dimers in arasproto-oncogene hot spot activate the gene by point mutation. Nucleic Acids Research, 1993, 21, 2355-2361.	14.5	22
65	Modulation of TFIIH-associated kinase activity by complex formation and its relationship with CTD phosphorylation of RNA polymerase II. Genes To Cells, 2000, 5, 407-423.	1.2	22
66	Polymerization by DNA polymerase β is blocked by cis-diamminedichloroplatinum(II) 1,3-d(GpTpG) cross-link: implications for cytotoxic effects in nucleotide excision repair-negative tumor cells. Carcinogenesis, 2010, 31, 388-393.	2.8	20
67	UV-induced mutations in epidermal cells of mice defective in DNA polymerase δ and/or ϵ . DNA Repair, 2015, 29, 139-146.	2.8	19
68	8-Hydroxyguanine in a mutational hotspot of the c-Ha-ras gene causes misreplication, 'action-at-a-distance' mutagenesis and inhibition of replication. Nucleic Acids Research, 2003, 31, 6085-6095.	14.5	18
69	Error-prone Translesion Synthesis by Human DNA Polymerase δ on DNA-containing Deoxyadenosine Adducts of 7,8-Dihydroxy-9,10-epoxy-7,8,9,10-tetrahydrobenzo[a]pyrene. Journal of Biological Chemistry, 2005, 280, 39684-39692.	3.4	17
70	Specificity of mutations induced by incorporation of oxidized dNTPs into DNA by human DNA polymerase δ . DNA Repair, 2008, 7, 497-506.	2.8	16
71	Regulation of HLF-mediated PCNA polyubiquitination by RFC and PCNA monoubiquitination levels determines choice of damage tolerance pathway. Nucleic Acids Research, 2018, 46, 11340-11356.	14.5	16
72	Stimulation of DNA Synthesis by Mouse DNA Helicase B in a DNA Replication System Containing Eukaryotic Replication Origins. Biochemistry, 1995, 34, 7913-7922.	2.5	15

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73	Identification and Characterization of an Intermediate in the Alkali Degradation of (6-4) Photoproduct-containing DNA. <i>Journal of Biological Chemistry</i> , 2003, 278, 51968-51973.	3.4	15
74	The BAH domain of BAF180 is required for PCNA ubiquitination. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2015, 779, 16-23.	1.0	15
75	Stepwise multipolyubiquitination of p53 by the E6AP-E6 ubiquitin ligase complex. <i>Journal of Biological Chemistry</i> , 2019, 294, 14860-14875.	3.4	15
76	Relevance of Simultaneous Mono-Ubiquitinations of Multiple Units of PCNA Homo-Trimers in DNA Damage Tolerance. <i>PLoS ONE</i> , 2015, 10, e0118775.	2.5	14
77	Preferential digestion of PCNA-ubiquitin and p53-ubiquitin linkages by USP7 to remove polyubiquitin chains from substrates. <i>Journal of Biological Chemistry</i> , 2019, 294, 4177-4187.	3.4	12
78	Translesional DNA Synthesis through a C8-Guanyl Adduct of 2-Amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP) in Vitro. <i>Journal of Biological Chemistry</i> , 2009, 284, 25585-25592.	3.4	11
79	A novel interaction between human DNA polymerase β and MutL β . <i>Biochemical and Biophysical Research Communications</i> , 2009, 389, 40-45.	2.1	10
80	A cyclobutane thymine-N4-methylcytosine dimer is resistant to hydrolysis but strongly blocks DNA synthesis. <i>Nucleic Acids Research</i> , 2014, 42, 2075-2084.	14.5	10
81	Use of RNAi in <i>C. elegans</i> . <i>Methods in Molecular Biology</i> , 2008, 442, 129-137.	0.9	9
82	Sphingosine, a Modulator of Human Translesion DNA Polymerase Activity. <i>Journal of Biological Chemistry</i> , 2014, 289, 21663-21672.	3.4	9
83	Xeroderma Pigmentosum Variant, XP-V: Its Product and Biological Roles. <i>Advances in Experimental Medicine and Biology</i> , 2008, 637, 93-102.	1.6	9
84	2-Hydroxy-2'-deoxyadenosine 5'-Triphosphate Enhances A-T to C-G Mutations Caused by 8-Hydroxy-2'-deoxyguanosine 5'-Triphosphate by Suppressing Its Degradation upon Replication in a HeLa Extract. <i>Biochemistry</i> , 2007, 46, 6639-6646.	2.5	8
85	Photosensitized [2 + 2] cycloaddition of N -acetylated cytosine affords stereoselective formation of cyclobutane pyrimidine dimer. <i>Nucleic Acids Research</i> , 2011, 39, 1165-1175.	14.5	8
86	A new <i>Drosophila</i> ultraviolet light-damaged DNA recognition endonuclease that selectively nicks a (6-4) photoproduct site. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1998, 1397, 180-188.	2.4	5
87	Acetaldehyde induces NER repairable mutagenic DNA lesions. <i>Carcinogenesis</i> , 2022, 43, 52-59.	2.8	4
88	Detection of reduced RNA synthesis in UV-irradiated Cockayne syndrome group B cells using an isolated nuclear system. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2002, 1592, 129-134.	4.1	3
89	Translesion DNA Synthesis and Damage Tolerance Pathways. , 2016, , 249-304.		3
90	Translesion DNA Synthesis. , 2019, , 169-189.		0

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91	Human DNA Polymerase η and Its Regulatory Mechanisms. <i>Genes and Environment</i> , 2012, 34, 63-69.	2.1	0