

Hiroshi Ide

List of Publications by Year in descending order

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66343

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all docs

106
docs citations

106
times ranked

3005
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of clustered DNA damage in vivo upon irradiation with ionizing radiation: Visualization and analysis with atomic force microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119132119.	7.1	23
2	Repair pathways for radiation DNA damage under normoxic and hypoxic conditions: Assessment with a panel of repair-deficient human TK6 cells. Journal of Radiation Research, 2021, , .	1.6	1
3	Repair of trapped topoisomerase II covalent cleavage complexes: Novel proteasome-independent mechanisms. Nucleosides, Nucleotides and Nucleic Acids, 2020, 39, 170-184.	1.1	7
4	Direct observation of damage clustering in irradiated DNA with atomic force microscopy. Nucleic Acids Research, 2020, 48, e18-e18.	14.5	25
5	Tyrosyl-DNA phosphodiesterase 2 (TDP2) repairs topoisomerase 1 DNA-protein crosslinks and 3'-blocking lesions in the absence of tyrosyl-DNA phosphodiesterase 1 (TDP1). DNA Repair, 2020, 91-92, 102849.	2.8	17
6	Participation of TDP1 in the repair of formaldehyde-induced DNA-protein cross-links in chicken DT40 cells. PLoS ONE, 2020, 15, e0234859.	2.5	1
7	DNA-protein cross-links: Formidable challenges to maintaining genome integrity. DNA Repair, 2018, 71, 190-197.	2.8	46
8	Establishment of expanded and streamlined pipeline of PITCh knock-in - a web-based design tool for MMEJ-mediated gene knock-in, PITCh designer, and the variations of PITCh, PITCh-TG and PITCh-KIKO. Bioengineered, 2017, 8, 302-308.	3.2	28
9	Radiation-induced DNA-protein cross-links: Mechanisms and biological significance. Free Radical Biology and Medicine, 2017, 107, 136-145.	2.9	56
10	Selective cytotoxicity of the anti-diabetic drug, metformin, in glucose-deprived chicken DT40 cells. PLoS ONE, 2017, 12, e0185141.	2.5	6
11	Restriction glycosylases: involvement of endonuclease activities in the restriction process. Nucleic Acids Research, 2016, 45, gkw1250.	14.5	13
12	Aldehydes with high and low toxicities inactivate cells by damaging distinct cellular targets. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2016, 786, 41-51.	1.0	55
13	AP endonuclease knockdown enhances methyl methanesulfonate hypersensitivity of DNA polymerase β knockout mouse embryonic fibroblasts. Journal of Radiation Research, 2015, 56, 462-466.	1.6	1
14	Induction of DNA-protein cross-links by ionizing radiation and their elimination from the genome. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2015, 771, 45-50.	1.0	20
15	Role of isolated and clustered DNA damage and the post-irradiating repair process in the effects of heavy ion beam irradiation. Journal of Radiation Research, 2015, 56, 446-455.	1.6	27
16	Restriction-modification system with methyl-inhibited base excision and abasic-site cleavage activities. Nucleic Acids Research, 2015, 43, 2841-2852.	14.5	7
17	Synergistic enhancement of 5-fluorouracil cytotoxicity by deoxyuridine analogs in cancer cells. Oncoscience, 2015, 2, 272-284.	2.2	1
18	Hypersensitivity of mouse NEIL1-knockdown cells to hydrogen peroxide during S phase. Journal of Radiation Research, 2014, 55, 707-712.	1.6	3

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19	Translocation and Stability of Replicative DNA Helicases upon Encountering DNA-Protein Cross-links. <i>Journal of Biological Chemistry</i> , 2013, 288, 4649-4658.	3.4	57
20	Detection of DNA-protein crosslinks (DPCs) by novel direct fluorescence labeling methods: distinct stabilities of aldehyde and radiation-induced DPCs. <i>Nucleic Acids Research</i> , 2012, 40, e143-e143.	14.5	37
21	T7 RNA Polymerases Backed up by Covalently Trapped Proteins Catalyze Highly Error Prone Transcription. <i>Journal of Biological Chemistry</i> , 2012, 287, 6562-6572.	3.4	47
22	NEIL1 mRNA Splicing Variants are Expressed in Normal Mouse Organs. <i>Journal of Radiation Research</i> , 2012, 53, 234-241.	1.6	3
23	Repair and biochemical effects of DNA-protein crosslinks. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2011, 711, 113-122.	1.0	107
24	Fluorescent probes for the analysis of DNA strand scission in base excision repair. <i>Nucleic Acids Research</i> , 2010, 38, e101-e101.	14.5	21
25	Genetic Analysis of Repair and Damage Tolerance Mechanisms for DNA-Protein Cross-Links in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2009, 191, 5657-5668.	2.2	31
26	Homologous Recombination but Not Nucleotide Excision Repair Plays a Pivotal Role in Tolerance of DNA-Protein Cross-links in Mammalian Cells. <i>Journal of Biological Chemistry</i> , 2009, 284, 27065-27076.	3.4	109
27	Quantitative Analysis of Isolated and Clustered DNA Damage Induced by Gamma-rays, Carbon Ion Beams, and Iron Ion Beams. <i>Journal of Radiation Research</i> , 2008, 49, 133-146.	1.6	62
28	Repair of DNA-protein crosslink damage: Coordinated actions of nucleotide excision repair and homologous recombination. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 57-58.	0.3	5
29	A Novel Monofunctional DNA Glycosylase Activity Against Thymine Glycol in Mouse Cell Nuclei. <i>Journal of Radiation Research</i> , 2008, 49, 249-259.	1.6	4
30	TopBP1 associates with NBS1 and is involved in homologous recombination repair. <i>Biochemical and Biophysical Research Communications</i> , 2007, 362, 872-879.	2.1	48
31	Nucleotide Excision Repair and Homologous Recombination Systems Commit Differentially to the Repair of DNA-Protein Crosslinks. <i>Molecular Cell</i> , 2007, 28, 147-158.	9.7	112
32	Major oxidative products of cytosine are substrates for the nucleotide incision repair pathway. <i>DNA Repair</i> , 2007, 6, 8-18.	2.8	81
33	Characterization of rat and human CYP2J enzymes as Vitamin D 25-hydroxylases. <i>Steroids</i> , 2006, 71, 849-856.	1.8	67
34	Synthesis and characterization of oligonucleotides containing 2'-fluorinated thymidine glycol as inhibitors of the endonuclease III reaction. <i>Nucleic Acids Research</i> , 2006, 34, 1540-1551.	14.5	22
35	Repair of Oxidative DNA Damage in Mammalian Cells. <i>Seibutsu Butsuri</i> , 2006, 46, 263-269.	0.1	0
36	Reaction of NO with Nucleic Acid Bases and its Biological Implication. <i>Frontiers in Organic Chemistry</i> , 2005, 1, 297-341.	0.0	1

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37	Repair activity of base and nucleotide excision repair enzymes for guanine lesions induced by nitrosative stress. <i>Nucleic Acids Research</i> , 2005, 33, 2181-2191.	14.5	47
38	Assessment of the genotoxic potential of nitric oxide-induced guanine lesions by in vitro reactions with <i>Escherichia coli</i> DNA polymerase I. <i>Mutagenesis</i> , 2005, 20, 209-216.	2.6	19
39	Roles of base excision repair enzymes Nth1p and Apn2p from <i>Schizosaccharomyces pombe</i> in processing alkylation and oxidative DNA damage. <i>DNA Repair</i> , 2005, 4, 1270-1280.	2.8	25
40	Detection of Endonuclease III- and 8-Oxoguanine Glycosylase-sensitive Base Modifications in γ -Irradiated DNA and Cells by the Aldehyde Reactive Probe (ARP) Assay. <i>Journal of Radiation Research</i> , 2004, 45, 229-237.	1.6	18
41	Clustered DNA damage induced by heavy ion particles. <i>Uchu Seibutsu Kagaku</i> , 2004, 18, 206-215.	0.3	51
42	The major human AP endonuclease (Ape1) is involved in the nucleotide incision repair pathway. <i>Nucleic Acids Research</i> , 2004, 32, 73-81.	14.5	181
43	Identification of a Novel Rat Microsomal Vitamin D3 25-Hydroxylase. <i>Journal of Biological Chemistry</i> , 2004, 279, 22848-22856.	3.4	54
44	Differential Specificity of Human and <i>Escherichia coli</i> Endonuclease III and VIII Homologues for Oxidative Base Lesions. <i>Journal of Biological Chemistry</i> , 2004, 279, 14464-14471.	3.4	116
45	Mutational analysis of the damage-recognition and catalytic mechanism of human SMUG1 DNA glycosylase. <i>Nucleic Acids Research</i> , 2004, 32, 5291-5302.	14.5	42
46	$\hat{\alpha}$ -Anomeric Deoxynucleotides, Anoxic Products of Ionizing Radiation, Are Substrates for the Endonuclease IV-Type AP Endonucleases. <i>Biochemistry</i> , 2004, 43, 15210-15216.	2.5	55
47	Human DNA Glycosylases Involved in the Repair of Oxidatively Damaged DNA. <i>Biological and Pharmaceutical Bulletin</i> , 2004, 27, 480-485.	1.4	115
48	Mammalian 5-Formyluracil $\hat{\alpha}$ -DNA Glycosylase. 1. Identification and Characterization of a Novel Activity That Releases 5-Formyluracil from DNA. <i>Biochemistry</i> , 2003, 42, 4993-5002.	2.5	38
49	Mammalian 5-Formyluracil $\hat{\alpha}$ -DNA Glycosylase. 2. Role of SMUG1 Uracil $\hat{\alpha}$ -DNA Glycosylase in Repair of 5-Formyluracil and Other Oxidized and Deaminated Base Lesions. <i>Biochemistry</i> , 2003, 42, 5003-5012.	2.5	112
50	DNA-Protein Cross-link Formation Mediated by Oxanine. <i>Journal of Biological Chemistry</i> , 2003, 278, 25264-25272.	3.4	78
51	Novel repair activities of AlkA (3-methyladenine DNA glycosylase II) and endonuclease VIII for xanthine and oxanine, guanine lesions induced by nitric oxide and nitrous acid. <i>Nucleic Acids Research</i> , 2002, 30, 4975-4984.	14.5	49
52	Detection of NO-induced DNA lesions by the modified aldehyde reactive probe (ARP) assay. <i>Nucleic Acids Symposium Series</i> , 2002, 2, 239-240.	0.3	3
53	Effects of a Guanine-derived Formamidopyrimidine Lesion on DNA Replication. <i>Journal of Biological Chemistry</i> , 2002, 277, 14589-14597.	3.4	44
54	Formation of a fairly stable diazoate intermediate of 5-methyl-2 $\hat{\alpha}$ -deoxycytidine by HNO ₂ and NO, and its implication to a novel mutation mechanism in CpG site. <i>Bioorganic and Medicinal Chemistry</i> , 2002, 10, 1063-1067.	3.0	5

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55	Novel nuclear and mitochondrial glycosylases revealed by disruption of the mouse Nth1 gene encoding an endonuclease III homolog for repair of thymine glycols. <i>EMBO Journal</i> , 2002, 21, 3486-3493.	7.8	139
56	DNA substrates containing defined oxidative base lesions and their application to study substrate specificities of base excision repair enzymes. <i>Progress in Molecular Biology and Translational Science</i> , 2001, 68, 207-221.	1.9	38
57	Formation of 2-chloroinosine from guanosine by treatment of HNO ₂ in the presence of NaCl. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 2937-2941.	3.0	4
58	Quantitation of DNA damage by an aldehyde reactive probe (ARP). <i>Nucleic Acids Symposium Series</i> , 2001, 1, 45-46.	0.3	9
59	Oxidation of Thymine to 5-Formyluracil in DNA Promotes Misincorporation of dGMP and Subsequent Elongation of a Mismatched Primer Terminus by DNA Polymerase. <i>Journal of Biological Chemistry</i> , 2001, 276, 16501-16510.	3.4	42
60	Influence of ring opening-closure equilibrium of oxanine, a novel damaged nucleobase, on migration behavior in capillary electrophoresis. <i>Journal of Chromatography A</i> , 2000, 877, 225-232.	3.7	8
61	Distinct Repair Activities of Human 7,8-Dihydro-8-oxoguanine DNA Glycosylase and Formamidopyrimidine DNA Glycosylase for Formamidopyrimidine and 7,8-Dihydro-8-oxoguanine. <i>Journal of Biological Chemistry</i> , 2000, 275, 4956-4964.	3.4	96
62	Recognition of Formamidopyrimidine by Escherichia coli and Mammalian Thymine Glycol Glycosylases. <i>Journal of Biological Chemistry</i> , 2000, 275, 24781-24786.	3.4	54
63	Purification and Characterization of a Novel DNA Repair Enzyme from the Extremely Radioresistant Bacterium <i>Rubrobacter radiotolerans</i> . <i>Journal of Radiation Research</i> , 2000, 41, 19-34.	1.6	21
64	Formation of 2'-deoxyoxanosine from 2'-deoxyguanosine and nitrous acid: mechanism and intermediates. <i>Nucleic Acids Research</i> , 2000, 28, 544-551.	14.5	48
65	Products of the Reaction between a Diazoate Derivative of 2-Deoxycytidine and Lysine and Its Implication for DNA-Nucleoprotein Cross-Linking by NO or HNO ₂ . <i>Chemical Research in Toxicology</i> , 2000, 13, 1223-1227.	3.3	13
66	Comparison of Substrate Specificities of Escherichia coli Endonuclease III and Its Mouse Homologue (mNTH1) Using Defined Oligonucleotide Substrates. <i>Biochemistry</i> , 2000, 39, 11389-11398.	2.5	55
67	Identification and Characterization of a Reaction Product of 2-Deoxyoxanosine with Glycine. <i>Chemical Research in Toxicology</i> , 2000, 13, 227-230.	3.3	26
68	Substrate Specificity of Human Methylpurine DNA N-Glycosylase. <i>Biochemistry</i> , 2000, 39, 1959-1965.	2.5	51
69	Enzymatic Repair of 5-Formyluracil. <i>Journal of Biological Chemistry</i> , 1999, 274, 25144-25150.	3.4	37
70	Enzymatic Repair of 5-Formyluracil. <i>Journal of Biological Chemistry</i> , 1999, 274, 25136-25143.	3.4	43
71	DNA strand breaks induced by ionizing radiation on <i>Rubrobacter radiotolerans</i> , an extremely radioresistant bacterium. <i>Microbiological Research</i> , 1999, 154, 173-178.	5.3	6
72	Mechanisms of DNA protection in <i>Halobacterium salinarium</i> , an extremely halophilic bacterium. <i>Microbiological Research</i> , 1999, 154, 185-190.	5.3	14

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73	In Vitro selection of sequence contexts which enhance bypass of abasic sites and tetrahydrofuran by T4 DNA polymerase holoenzyme 1 Edited by J. M. Miller. Journal of Molecular Biology, 1999, 286, 1045-1057.	4.2	24
74	Isolation and Characterization of Diazoate Intermediate upon Nitrous Acid and Nitric Oxide Treatment of 2-Deoxycytidine. Biochemistry, 1999, 38, 7151-7158.	2.5	21
75	Highly sensitive assay of DNA abasic sites in mammalian cells-optimization of the aldehyde reactive probe method. Analytica Chimica Acta, 1998, 365, 35-41.	5.4	26
76	Misincorporation of 2-Deoxyoxanosine 5-Triphosphate by DNA Polymerases and Its Implication for Mutagenesis. Biochemistry, 1998, 37, 11592-11598.	2.5	52
77	Cloning and characterization of a mouse homologue (mnth1) of Escherichia coli endonuclease III 1 Edited by J. Miller. Journal of Molecular Biology, 1998, 282, 761-774.	4.2	81
78	Novel Modification of 5-Formyluracil by Cysteine Derivatives in Aqueous Solution. Nucleosides, Nucleotides and Nucleic Acids, 1998, 17, 131-141.	1.1	13
79	Repair Kinetics of Abasic Sites in Mammalian Cells Selectively Monitored by the Aldehyde Reactive Probe (ARP). Nucleosides, Nucleotides and Nucleic Acids, 1998, 17, 503-513.	1.1	16
80	Protective Roles of Bacterioruberin and Intracellular KCl in the Resistance of Halobacterium salinarium against DNA-damaging Agents.. Journal of Radiation Research, 1998, 39, 251-262.	1.6	137
81	Induction of Fragile Sites by Fluorodeoxyuridine and Caffeine Accompanies with Misincorporation of Endogenous Uridine Nucleotide into DNA fo Feline Fibroblasts.. Journal of Veterinary Medical Science, 1998, 60, 1293-1297.	0.9	3
82	Deglycosylation Susceptibility and Base-Pairing Stability of 2-Deoxyoxanosine in Oligodeoxynucleotide. Biochemistry, 1997, 36, 8013-8019.	2.5	51
83	INCORPORATION OF 2-DEOXYOXANOSINE TRIPHOSPHATE BY DNA POLYMERASES. The Japanese Journal of Pharmacology, 1997, 75, 67.	1.2	0
84	Effects of 60Co Gamma-Rays, Ultraviolet Light, and Mitomycin C on Halobacterium salinarium and Thiobacillus intermedius.. Journal of Radiation Research, 1997, 38, 37-43.	1.6	23
85	Hydroxyl radical scavenging ability of bacterioruberin. Radiation Physics and Chemistry, 1997, 50, 267-269.	2.8	51
86	Isolation and Characterization of a Novel Product, 2-Deoxyoxanosine, from 2-Deoxyguanosine, Oligodeoxynucleotide, and Calf Thymus DNA Treated by Nitrous Acid and Nitric Oxide. Journal of the American Chemical Society, 1996, 118, 2515-2516.	13.7	112
87	On the mechanism of preferential incorporation of dAMP at abasic sites in translesional DNA synthesis. Role of proof reading activity of DNA polymerase and thermodynamic characterization of model template-primers containing an abasic site. Nucleic Acids Research, 1995, 23, 123-129.	14.5	26
88	Influence of .alpha.-Deoxyadenosine on the Stability and Structure of DNA. Thermodynamic and Molecular Mechanics Studies. Biochemistry, 1995, 34, 6947-6955.	2.5	43
89	.alpha.-Deoxyadenosine, a Major Anoxic Radiolysis Product of Adenine in DNA, Is a Substrate for Escherichia coli Endonuclease IV. Biochemistry, 1994, 33, 7842-7847.	2.5	102
90	Isolation and Characterization of Endonuclease VIII from Escherichia coli. Biochemistry, 1994, 33, 1255-1264.	2.5	175

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91	Replication of DNA Templates Containing the .alpha.-Anomer of Deoxyadenosine, a Major Adenine Lesion Produced by Hydroxyl Radicals. <i>Biochemistry</i> , 1994, 33, 7127-7133.	2.5	32
92	Optimization of the separation of oligodeoxyribonucleoside phosphoramidates and their characterization by circular dichroism spectroscopy. <i>Journal of Chromatography A</i> , 1993, 648, 157-163.	3.7	6
93	Synthesis and damage specificity of a novel probe for the detection of abasic sites in DNA. <i>Biochemistry</i> , 1993, 32, 8276-8283.	2.5	122
94	Detection of Specific Base Sequences in Solution Using DNA Probes Labeled with D- and/or 15N-substituted Spin-labels. <i>Free Radical Research Communications</i> , 1993, 19, s109-s116.	1.8	3
95	Oligonucleotides Site-specifically Spin-labeled at 5'-Terminal or Internucleotide Linkage and Their Use in Gene Analyses. <i>Free Radical Research Communications</i> , 1993, 19, s117-s128.	1.8	7
96	Properties of a monoclonal antibody for the detection of abasic sites, a common DNA lesion. <i>Mutation Research DNA Repair</i> , 1992, 273, 253-261.	3.7	16
97	A novel sensitive and specific assay for abasic sites, the most commonly produced DNA lesion. <i>Biochemistry</i> , 1992, 31, 3703-3708.	2.5	159
98	Characterization of a Monoclonal Antibody to Thymidine Glycol Monophosphate. <i>Radiation Research</i> , 1990, 124, 131.	1.5	10
99	Characterization of antibodies to dihydrothymine, a radiolysis product of DNA. <i>Biochemistry</i> , 1989, 28, 4382-4387.	2.5	19
100	Immunochemical Quantitation of Thymine Glycol in Oxidized and X-Irradiated DNA. <i>Radiation Research</i> , 1989, 118, 257.	1.5	23
101	Dihydrothymidine and thymidine glycol triphosphates as substrates for DNA polymerases: differential recognition of thymine C5-C6 bond saturation and sequence specificity of incorporation. <i>Nucleic Acids Research</i> , 1988, 16, 11339-11354.	14.5	29
102	Synthesis of dihydrothymidine and thymidine glycol 5'-triphosphates and their ability to serve as substrates for <i>Escherichia coli</i> DNA polymerase I. <i>Biochemistry</i> , 1987, 26, 964-969.	2.5	45
103	Incorporation of Dihydrothymidine and its Triphosphate During DNA Replication: An Implication for the Biological Consequence of Thymine C5-C6 Bond Saturation. , 1987, , 145-150.		0
104	Thymine glycols and urea residues in M13 DNA constitute replicative blocks in vitro. <i>Nucleic Acids Research</i> , 1985, 13, 8035-8052.	14.5	267
105	Radiation-induced reduction of thymidine in aqueous solution: isolation and characterization of a novel dimeric product. <i>Journal of the American Chemical Society</i> , 1983, 105, 6740-6741.	13.7	32
106	Formation, Repair, and Biological Effects of DNA "Protein Cross-Link Damage. , 0, , .		6