

# Paweł, Jaruga

## List of Publications by Year in descending order

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105  
papers

9,979  
citations

53660

45  
h-index

33814

99  
g-index

108  
all docs

108  
docs citations

108  
times ranked

11631  
citing authors

#	ARTICLE	IF	CITATIONS
1	Linking uracil base excision repair and 5-fluorouracil toxicity in yeast. <i>Nucleic Acids Research</i> , 2006, 34, 140-151.	6.5	1,877
2	Free radical-induced damage to DNA: mechanisms and measurement 1,2 1This article is part of a series of reviews on "Oxidative DNA Damage and Repair." The full list of papers may be found on the homepage of the journal. 2Guest Editor: Miral Dizdaroğlu. <i>Free Radical Biology and Medicine</i> , 2002, 32, 1102-1115.	1.3	814
3	Mechanisms of free radical-induced damage to DNA. <i>Free Radical Research</i> , 2012, 46, 382-419.	1.5	543
4	Identification and characterization of a human DNA glycosylase for repair of modified bases in oxidatively damaged DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 3523-3528.	3.3	459
5	Copper Oxide Nanoparticle Mediated DNA Damage in Terrestrial Plant Models. <i>Environmental Science &amp; Technology</i> , 2012, 46, 1819-1827.	4.6	424
6	DNA Damage and DNA Sequence Retrieval from Ancient Tissues. <i>Nucleic Acids Research</i> , 1996, 24, 1304-1307.	6.5	338
7	Oxidative DNA damage: assessment of the role in carcinogenesis, atherosclerosis, and acquired immunodeficiency syndrome 1 This article is part of a series of reviews on "Oxidative DNA Damage and Repair." The full list of papers may be found on the homepage of the journal. <i>Free Radical Biology and Medicine</i> , 2002, 33, 192-200.	1.3	258
8	Repair of products of oxidative DNA base damage in human cells. <i>Nucleic Acids Research</i> , 1996, 24, 1389-1394.	6.5	233
9	New functions of XPC in the protection of human skin cells from oxidative damage. <i>EMBO Journal</i> , 2006, 25, 4305-4315.	3.5	227
10	Oxidative DNA base damage and antioxidant enzyme activities in human lung cancer. <i>FEBS Letters</i> , 1994, 341, 59-64.	1.3	206
11	Regulation of reactive oxygen species, DNA damage and c-Myc function by peroxiredoxin 1. <i>Oncogene</i> , 2005, 24, 8038-8050.	2.6	205
12	Repair of Formamidopyrimidines in DNA Involves Different Glycosylases. <i>Journal of Biological Chemistry</i> , 2005, 280, 40544-40551.	1.6	174
13	The mouse ortholog of NEIL3 is a functional DNA glycosylase in vitro and in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4925-4930.	3.3	169
14	Kinetics of excision of purine lesions from DNA by Escherichia coli Fpg protein. <i>Nucleic Acids Research</i> , 1997, 25, 474-479.	6.5	142
15	Primary fibroblasts of Cockayne syndrome patients are defective in cellular repair of 8-hydroxyguanine and 8-hydroxyadenine resulting from oxidative stress. <i>FASEB Journal</i> , 2003, 17, 668-674.	0.2	140
16	The Cockayne Syndrome Group B Gene Product Is Involved in General Genome Base Excision Repair of 8-Hydroxyguanine in DNA. <i>Journal of Biological Chemistry</i> , 2001, 276, 45772-45779.	1.6	138
17	The role of CSA in the response to oxidative DNA damage in human cells. <i>Oncogene</i> , 2007, 26, 4336-4343.	2.6	133
18	Polyamines stimulate the formation of mutagenic 1,N <sup>2</sup> -propanodeoxyguanosine adducts from acetaldehyde. <i>Nucleic Acids Research</i> , 2005, 33, 3513-3520.	6.5	128

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19	Measurement of 8-hydroxy-2'-deoxyguanosine in DNA by high-performance liquid chromatography-mass spectrometry: comparison with measurement by gas chromatography-mass spectrometry. <i>Nucleic Acids Research</i> , 2001, 29, 12e-12.	6.5	109
20	8,5- $\epsilon^2$ -Cyclopurine-2- $\epsilon^2$ -deoxynucleosides in DNA: Mechanisms of formation, measurement, repair and biological effects. <i>DNA Repair</i> , 2008, 7, 1413-1425.	1.3	104
21	Formamidopyrimidines in DNA: Mechanisms of formation, repair, and biological effects. <i>Free Radical Biology and Medicine</i> , 2008, 45, 1610-1621.	1.3	102
22	Targeted deletion of the genes encoding NTH1 and NEIL1 DNA N-glycosylases reveals the existence of novel carcinogenic oxidative damage to DNA. <i>DNA Repair</i> , 2009, 8, 786-794.	1.3	101
23	Genomic DNA of <i>Nostoc commune</i> (Cyanobacteria) becomes covalently modified during long-term (decades) desiccation but is protected from oxidative damage and degradation. <i>Nucleic Acids Research</i> , 2003, 31, 2995-3005.	6.5	99
24	Mouse NEIL1 Protein Is Specific for Excision of 2,6-Diamino-4-hydroxy-5-formamidopyrimidine and 4,6-Diamino-5-formamidopyrimidine from Oxidatively Damaged DNA. <i>Biochemistry</i> , 2004, 43, 15909-15914.	1.2	89
25	The Cockayne Syndrome Group B Gene Product Is Involved in Cellular Repair of 8-Hydroxyadenine in DNA. <i>Journal of Biological Chemistry</i> , 2002, 277, 30832-30837.	1.6	88
26	Mass Spectrometric Assays for the Tandem Lesion 8,5- $\epsilon^{\sim}$ -Cyclo-2- $\epsilon^{\sim}$ -deoxyguanosine in Mammalian DNA. <i>Biochemistry</i> , 2002, 41, 3703-3711.	1.2	88
27	DNA Base Damage by the Antitumor Agent 3-Amino-1,2,4-benzotriazine 1,4-Dioxide (Tirapazamine). <i>Journal of the American Chemical Society</i> , 2003, 125, 11607-11615.	6.6	85
28	Supplementation with antioxidant vitamins prevents oxidative modification of DNA in lymphocytes of HIV-infected patients. <i>Free Radical Biology and Medicine</i> , 2002, 32, 414-420.	1.3	82
29	Cellular repair of oxidatively induced DNA base lesions is defective in prostate cancer cell lines, PC-3 and DU-145. <i>Carcinogenesis</i> , 2004, 25, 1359-1370.	1.3	82
30	Identification and quantification of 8,5- $\epsilon^2$ -cyclo-2- $\epsilon^2$ -deoxy-adenosine in DNA by liquid chromatography/mass spectrometry. <i>Free Radical Biology and Medicine</i> , 2001, 30, 774-784.	1.3	79
31	Characterization and Mechanism of Action of Drosophila Ribosomal Protein S3 DNA Glycosylase Activity for the Removal of Oxidatively Damaged DNA Bases. <i>Journal of Biological Chemistry</i> , 1997, 272, 32857-32860.	1.6	77
32	Small Molecule Inhibitors of 8-Oxoguanine DNA Glycosylase-1 (OGG1). <i>ACS Chemical Biology</i> , 2015, 10, 2334-2343.	1.6	72
33	Repair of oxidatively induced DNA damage by DNA glycosylases: Mechanisms of action, substrate specificities and excision kinetics. <i>Mutation Research - Reviews in Mutation Research</i> , 2017, 771, 99-127.	2.4	72
34	Human Polymorphic Variants of the NEIL1 DNA Glycosylase. <i>Journal of Biological Chemistry</i> , 2007, 282, 15790-15798.	1.6	70
35	Accumulation of (5- $\epsilon^2$ S)-8,5- $\epsilon^2$ -cyclo-2- $\epsilon^2$ -deoxyadenosine in organs of Cockayne syndrome complementation group B gene knockout mice. <i>DNA Repair</i> , 2009, 8, 274-278.	1.3	66
36	Measurement of oxidatively induced DNA damage and its repair, by mass spectrometric techniques. <i>Free Radical Research</i> , 2015, 49, 525-548.	1.5	66

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37	Complete release of (5'S)-8,5'-cyclo-2'-deoxyadenosine from dinucleotides, oligodeoxynucleotides and DNA, and direct comparison of its levels in cellular DNA with other oxidatively induced DNA lesions. <i>Nucleic Acids Research</i> , 2004, 32, e87-e87.	6.5	65
38	A Major Role for Nonenzymatic Antioxidant Processes in the Radioresistance of <i>Halobacterium salinarum</i> . <i>Journal of Bacteriology</i> , 2011, 193, 1653-1662.	1.0	59
39	Oxidative DNA base damage and its repair in kidneys and livers of nickel(II)-treated male F344 rats. <i>Carcinogenesis</i> , 1997, 18, 271-277.	1.3	58
40	Salt shield: intracellular salts provide cellular protection against ionizing radiation in the halophilic archaeon, <i>Halobacterium salinarum</i> . <i>Environmental Microbiology</i> , 2009, 11, 1066-1078.	1.8	58
41	Lymphoblasts of Women with BRCA1 Mutations Are Deficient in Cellular Repair of 8,5'-Cyclopurine-2'-deoxynucleosides and 8-Hydroxy-2'-deoxyguanosine. <i>Biochemistry</i> , 2007, 46, 2488-2496.	1.2	52
42	Accumulation of Oxidatively Induced DNA Damage in Human Breast Cancer Cell Lines Following Treatment with Hydrogen Peroxide. <i>Cell Cycle</i> , 2007, 6, 1471-1477.	1.3	50
43	Measurement of formamidopyrimidines in DNA. <i>Free Radical Biology and Medicine</i> , 2008, 45, 1601-1609.	1.3	50
44	Evidence for the Involvement of DNA Repair Enzyme NEIL1 in Nucleotide Excision Repair of (5'-R)- and (5'-S)-8,5'-Cyclo-2'-deoxyadenosines. <i>Biochemistry</i> , 2010, 49, 1053-1055.	1.2	50
45	Bisphenol A Promotes Cell Survival Following Oxidative DNA Damage in Mouse Fibroblasts. <i>PLoS ONE</i> , 2015, 10, e0118819.	1.1	49
46	Substrate Specificity and Excision Kinetics of <i>Escherichia coli</i> Endonuclease VIII (Nei) for Modified Bases in DNA Damaged by Free Radicals. <i>Biochemistry</i> , 2001, 40, 12150-12156.	1.2	46
47	Structural and biochemical studies of a plant formamidopyrimidine-DNA glycosylase reveal why eukaryotic Fpg glycosylases do not excise 8-oxoguanine. <i>DNA Repair</i> , 2012, 11, 714-725.	1.3	46
48	Oxidative DNA damage in polymorphonuclear leukocytes of patients with familial Mediterranean fever. <i>Free Radical Biology and Medicine</i> , 2008, 44, 386-393.	1.3	45
49	Determination of Active Site Residues in <i>Escherichia coli</i> Endonuclease VIII. <i>Journal of Biological Chemistry</i> , 2002, 277, 2938-2944.	1.6	43
50	The oxidative DNA glycosylases of <i>Mycobacterium tuberculosis</i> exhibit different substrate preferences from their <i>Escherichia coli</i> counterparts. <i>DNA Repair</i> , 2010, 9, 177-190.	1.3	43
51	Substrate specificity and excision kinetics of natural polymorphic variants and phosphomimetic mutants of human 8-oxoguanine-DNA glycosylase. <i>FEBS Journal</i> , 2009, 276, 5149-5162.	2.2	41
52	Molecular Analysis of Base Damage Clustering Associated with a Site-Specific Radiation-Induced DNA Double-Strand Break. <i>Radiation Research</i> , 2006, 166, 767-781.	0.7	40
53	Active transcriptomic and proteomic reprogramming in the <i>C. elegans</i> nucleotide excision repair mutant xpa-1. <i>Nucleic Acids Research</i> , 2013, 41, 5368-5381.	6.5	40
54	<i>Arabidopsis thaliana</i> Ogg1 Protein Excises 8-Hydroxyguanine and 2,6-Diamino-4-hydroxy-5-formamidopyrimidine from Oxidatively Damaged DNA Containing Multiple Lesions. <i>Biochemistry</i> , 2003, 42, 3089-3095.	1.2	38

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55	Measurement of (5â€²R)- and (5â€²S)-8,5â€²-cyclo-2â€²-deoxyadenosines in DNA in vivo by liquid chromatography/isotope-dilution tandem mass spectrometry. <i>Biochemical and Biophysical Research Communications</i> , 2009, 386, 656-660.	1.0	38
56	Epirubicin-Induced Oxidative DNA Damage and Evidence for Its Repair in Lymphocytes of Cancer Patients Who Are Undergoing Chemotherapy. <i>Molecular Pharmacology</i> , 1997, 52, 882-885.	1.0	37
57	Measurement of 8-hydroxy-2â€²-deoxyadenosine in DNA by liquid chromatography/mass spectrometry. <i>Free Radical Biology and Medicine</i> , 2001, 31, 336-344.	1.3	37
58	DNA Damage Products (5â€²R)- and (5â€²S)-8,5â€²-Cyclo-2â€²-deoxyadenosines as Potential Biomarkers in Human Urine for Atherosclerosis. <i>Biochemistry</i> , 2012, 51, 1822-1824.	1.2	37
59	Oxidative DNA Base Modifications and Polycyclic Aromatic Hydrocarbon DNA Adducts in Squamous Cell Carcinoma of Larynx. <i>Free Radical Research</i> , 2003, 37, 231-240.	1.5	36
60	Inhibition of DNA Glycosylases via Small Molecule Purine Analogs. <i>PLoS ONE</i> , 2013, 8, e81667.	1.1	35
61	Plant and fungal Fpg homologs are formamidopyrimidine DNA glycosylases but not 8-oxoguanine DNA glycosylases. <i>DNA Repair</i> , 2009, 8, 643-653.	1.3	33
62	Oxidative Changes in the DNA of Stroma and Epithelium from the Female Breast: Potential Implications for Breast Cancer. <i>Cell Cycle</i> , 2006, 5, 1629-1632.	1.3	32
63	Biomarkers Signal Contaminant Effects on the Organs of English Sole ( <i>Parophrys vetulus</i> ) from Puget Sound. <i>Environmental Health Perspectives</i> , 2006, 114, 823-829.	2.8	32
64	DNA base damage in lymphocytes of cancer patients undergoing radiation therapy. <i>Cancer Letters</i> , 1996, 106, 207-215.	3.2	31
65	Exposure to Engineered Nanomaterials: Impact on DNA Repair Pathways. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1515.	1.8	31
66	Aflatoxin-Guanine DNA Adducts and Oxidatively Induced DNA Damage in Aflatoxin-Treated Mice <i>in Vivo</i> as Measured by Liquid Chromatography-Tandem Mass Spectrometry with Isotope Dilution. <i>Chemical Research in Toxicology</i> , 2019, 32, 80-89.	1.7	30
67	Structural Alterations in Breast Stromal and Epithelial DNA: The Influence of 8,5-cyclo-2-Deoxyadenosine. <i>Cell Cycle</i> , 2006, 5, 1240-1244.	1.3	29
68	Addiction to MTH1 protein results in intense expression in human breast cancer tissue as measured by liquid chromatography-isotope-dilution tandem mass spectrometry. <i>DNA Repair</i> , 2015, 33, 101-110.	1.3	29
69	Reduced repair of 8-hydroxyguanine in the human breast cancer cell line, HCC1937. <i>BMC Cancer</i> , 2006, 6, 297.	1.1	28
70	Identification and quantification of (5â€²R)- and (5â€²S)-8,5â€²-cyclo-2â€²-deoxyadenosines in human urine as putative biomarkers of oxidatively induced damage to DNA. <i>Biochemical and Biophysical Research Communications</i> , 2010, 397, 48-52.	1.0	28
71	Extreme Expression of DNA Repair Protein Apurinic/Apyrimidinic Endonuclease 1 (APE1) in Human Breast Cancer As Measured by Liquid Chromatography and Isotope Dilution Tandem Mass Spectrometry. <i>Biochemistry</i> , 2015, 54, 5787-5790.	1.2	27
72	The oxidatively induced DNA lesions 8,5â€²-cyclo-2â€²-deoxyadenosine and 8-hydroxy-2â€²-deoxyadenosine are strongly resistant to acid-induced hydrolysis of the glycosidic bond. <i>Mechanisms of Ageing and Development</i> , 2007, 128, 494-502.	2.2	26

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73	Glutathione Depletion by Buthionine Sulfoximine Induces Oxidative Damage to DNA in Organs of Rabbits in Vivo. <i>Biochemistry</i> , 2009, 48, 4980-4987.	1.2	25
74	Evidence for upregulated repair of oxidatively induced DNA damage in human colorectal cancer. <i>DNA Repair</i> , 2011, 10, 1114-1120.	1.3	23
75	Accumulation of oxidatively induced DNA damage in human breast cancer cell lines following treatment with hydrogen peroxide. <i>Cell Cycle</i> , 2007, 6, 1472-8.	1.3	23
76	Identification and Quantification of Human DNA Repair Protein NEIL1 by Liquid Chromatography/Isotope-Dilution Tandem Mass Spectrometry. <i>Journal of Proteome Research</i> , 2013, 12, 1049-1061.	1.8	22
77	Identification and Quantification of DNA Repair Protein Apurinic/Apyrimidinic Endonuclease 1 (APE1) in Human Cells by Liquid Chromatography/Isotope-Dilution Tandem Mass Spectrometry. <i>PLoS ONE</i> , 2013, 8, e69894.	1.1	22
78	Biomarkers of oxidatively induced DNA damage in dreissenid mussels: A genotoxicity assessment tool for the Laurentian Great Lakes. <i>Environmental Toxicology</i> , 2017, 32, 2144-2153.	2.1	22
79	Chlorella Virus Pyrimidine Dimer Glycosylase Excises Ultraviolet Radiation- and Hydroxyl Radical-induced Products 4,6-Diamino-5-formamidopyrimidine and 2,6-Diamino-4-hydroxy-5-formamidopyrimidine from DNA. <i>Photochemistry and Photobiology</i> , 2002, 75, 85.	1.3	22
80	Overexpression and rapid purification of Escherichia coli formamidopyrimidine-DNA glycosylase. <i>Protein Expression and Purification</i> , 2004, 34, 126-133.	0.6	21
81	Combined Effects of High-Dose Bisphenol A and Oxidizing Agent (KBrO <sub>3</sub> ) on Cellular Microenvironment, Gene Expression, and Chromatin Structure of Ku70-deficient Mouse Embryonic Fibroblasts. <i>Environmental Health Perspectives</i> , 2016, 124, 1241-1252.	2.8	20
82	Recognition of DNA adducts by edited and unedited forms of DNA glycosylase NEIL1. <i>DNA Repair</i> , 2020, 85, 102741.	1.3	20
83	Identification and Quantification of DNA Repair Proteins by Liquid Chromatography/Isotope-Dilution Tandem Mass Spectrometry Using Their Fully <sup>15</sup> N-Labeled Analogues as Internal Standards. <i>Journal of Proteome Research</i> , 2011, 10, 3802-3813.	1.8	19
84	Stable isotope-labeling of DNA repair proteins, and their purification and characterization. <i>Protein Expression and Purification</i> , 2011, 78, 94-101.	0.6	19
85	RNA oxidation catalyzed by cytochrome c leads to its depurination and cross-linking, which may facilitate cytochrome c release from mitochondria. <i>Free Radical Biology and Medicine</i> , 2012, 53, 854-862.	1.3	18
86	Heavy ion space radiation triggers ongoing DNA base damage by downregulating DNA repair pathways. <i>Life Sciences in Space Research</i> , 2020, 27, 27-32.	1.2	13
87	Oxidative DNA base damage in lymphocytes of HIV-infected drug users. <i>Free Radical Research</i> , 1999, 31, 197-200.	1.5	11
88	Enhanced sensitivity of Neil1 <sup>-/-</sup> mice to chronic UVB exposure. <i>DNA Repair</i> , 2016, 48, 43-50.	1.3	11
89	Significant disparity in base and sugar damage in DNA resulting from neutron and electron irradiation. <i>Journal of Radiation Research</i> , 2014, 55, 1081-1088.	0.8	10
90	Characterization of rare NEIL1 variants found in East Asian populations. <i>DNA Repair</i> , 2019, 79, 32-39.	1.3	9

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91	Measurement of DNA Biomarkers for the Safety of Tissue-Engineered Medical Products, Using Artificial Skin as a Model. <i>Tissue Engineering</i> , 2004, 10, 1332-1345.	4.9	8
92	Production, Purification, and Characterization of 15N-Labeled DNA Repair Proteins as Internal Standards for Mass Spectrometric Measurements. <i>Methods in Enzymology</i> , 2016, 566, 305-332.	0.4	8
93	Expression of a germline variant in the N-terminal domain of the human DNA glycosylase NTHL1 induces cellular transformation without impairing enzymatic function or substrate specificity. <i>Oncotarget</i> , 2020, 11, 2262-2272.	0.8	6
94	Measurement of Oxidatively Induced DNA Damage in <i>Caenorhabditis elegans</i> with High-Salt DNA Extraction and Isotope-Dilution Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 12149-12155.	3.2	5
95	Ne-22 Ion-Beam Radiation Damage to DNA: From Initial Free Radical Formation to Resulting DNA-Base Damage. <i>ACS Omega</i> , 2021, 6, 16600-16611.	1.6	5
96	Oxidative DNA Damage Biomarkers Used in Tissue Engineered Skin. <i>Advances in Experimental Medicine and Biology</i> , 2003, 534, 129-135.	0.8	4
97	Identification and quantification of DNA repair protein poly(ADP ribose) polymerase 1 (PARP1) in human tissues and cultured cells by liquid chromatography/isotope-dilution tandem mass spectrometry. <i>DNA Repair</i> , 2019, 75, 48-59.	1.3	4
98	Excision release of 5-hydroxycytosine oxidatively induced DNA base lesions from the lung genome by cat dander extract challenge stimulates allergic airway inflammation. <i>Clinical and Experimental Allergy</i> , 2018, 48, 1676-1687.	1.4	3
99	Inhibition by Tetrahydroquinoline Sulfonamide Derivatives of the Activity of Human 8-Oxoguanine DNA Glycosylase (OGG1) for Several Products of Oxidatively induced DNA Base Lesions. <i>ACS Chemical Biology</i> , 2021, 16, 45-51.	1.6	3
100	DNA glycosylase deficiency leads to decreased severity of lupus in the Polb-Y265C mouse model. <i>DNA Repair</i> , 2021, 105, 103152.	1.3	3
101	Polymorphic variant Asp239Tyr of human DNA glycosylase NTHL1 is inactive for removal of a variety of oxidatively-induced DNA base lesions from genomic DNA. <i>DNA Repair</i> , 2022, 117, 103372.	1.3	3
102	Oxidative DNA base damage in cancerous tissues of patients undergoing brachytherapy. <i>Cancer Letters</i> , 1998, 132, 169-173.	3.2	2
103	Chlorella Virus Pyrimidine Dimer Glycosylase Excises Ultraviolet Radiation- and Hydroxyl Radical-induced Products 4,6-Diamino-5-formamidopyrimidine and 2,6-Diamino-4-hydroxy-5-formamidopyrimidine from DNA. <i>Photochemistry and Photobiology</i> , 2002, 75, 85-91.	1.3	0
104	Biomarkers Used to Detect Genetic Damage in Tissue Engineered Skin. <i>Advances in Experimental Medicine and Biology</i> , 2003, 534, 137-145.	0.8	0
105	Estimation Of Free Radical Induced DNA Base Damages in Cancerous- and HIV Infected Patients and in Healthy Subjects. , 1999, , 353-369.		0