Tapas K Hazra

List of Publications by Year
in descending order

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80	7,434	41344	69250
papers	citations	49 h-index	77 g-index

87	87	87	5996
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Early steps in the DNA base excision/single-strand interruption repair pathway in mammalian cells. Cell Research, 2008, 18, 27-47.	12.0	549
2	Identification and characterization of a human DNA glycosylase for repair of modified bases in oxidatively damaged DNA. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3523-3528.	7.1	459
3	AP Endonuclease-Independent DNA Base Excision Repair in Human Cells. Molecular Cell, 2004, 15, 209-220.	9.7	434
4	ROS generated by pollen NADPH oxidase provide a signal that augments antigen-induced allergic airway inflammation. Journal of Clinical Investigation, 2005, 115, 2169-2179.	8.2	310
5	Repair of Oxidized Bases in DNA Bubble Structures by Human DNA Glycosylases NEIL1 and NEIL2. Journal of Biological Chemistry, 2003, 278, 49679-49684.	3.4	305
6	Identification and Characterization of a Novel Human DNA Glycosylase for Repair of Cytosine-derived Lesions. Journal of Biological Chemistry, 2002, 277, 30417-30420.	3.4	289
7	Oxidative DNA damage repair in mammalian cells: A new perspective. DNA Repair, 2007, 6, 470-480.	2.8	240
8	Mammalian DNA base excision repair proteins: their interactions and role in repair of oxidative DNA damage. Toxicology, 2003, 193, 43-65.	4.2	191
9	Acetylation of Human 8-Oxoguanine-DNA Glycosylase by p300 and Its Role in 8-Oxoguanine Repair In Vivo. Molecular and Cellular Biology, 2006, 26, 1654-1665.	2.3	165
10	Role of acetylated human AP-endonuclease (APE1/Ref-1) in regulation of the parathyroid hormone gene. EMBO Journal, 2003, 22, 6299-6309.	7.8	158
11	Oxidized Guanine Base Lesions Function in 8-Oxoguanine DNA Glycosylase-1-mediated Epigenetic Regulation of Nuclear Factor Î°B-driven Gene Expression. Journal of Biological Chemistry, 2016, 291, 25553-25566.	3.4	151
12	Identification and characterization of mitochondrial abasic (AP)-endonuclease in mammalian cells. Nucleic Acids Research, 2006, 34, 2067-2076.	14.5	141
13	Choreography of oxidative damage repair in mammalian genomes1,2 1Guest Editor: Miral Dizdaroglu 2This article is part of a series of reviews on â€œOxidative DNA Damage and Repair.â€•The full list of papers may be found on the homepage of the journal.. Free Radical Biology and Medicine, 2002, 33, 15-28.	2.9	136
14	Classical non-homologous end-joining pathway utilizes nascent RNA for error-free double-strand break repair of transcribed genes. Nature Communications, 2016, 7, 13049.	12.8	136
15	Complexities of the DNA base excision repair pathway for repair of oxidative DNA damage. Environmental and Molecular Mutagenesis, 2001, 38, 180-190.	2.2	131
16	Thirdhand smoke causes DNA damage in human cells. Mutagenesis, 2013, 28, 381-391.	2.6	131
17	NEIL2-initiated, APE-independent repair of oxidized bases in DNA: Evidence for a repair complex in human cells. DNA Repair, 2006, 5, 1439-1448.	2.8	127
18	Interaction of the Human DNA Glycosylase NEIL1 with Proliferating Cell Nuclear Antigen. Journal of Biological Chemistry, 2008, 283, 3130-3140.	3.4	126

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19	Oxidative genome damage and its repair: Implications in aging and neurodegenerative diseases. Mechanisms of Ageing and Development, 2012, 133, 157-168.	4.6	124
20	Preferential Repair of Oxidized Base Damage in the Transcribed Genes of Mammalian Cells. Journal of Biological Chemistry, 2011, 286, 6006-6016.	3.4	123
21	Stimulation of NEIL2-mediated Oxidized Base Excision Repair via YB-1 Interaction during Oxidative Stress. Journal of Biological Chemistry, 2007, 282, 28474-28484.	3.4	121
22	Multiple DNA glycosylases for repair of 8-oxoguanine and their potential in Vivo functions. Progress in Molecular Biology and Translational Science, 2001, 68, 193-205.	1.9	117
23	Age-dependent deficiency in import of mitochondrial DNA glycosylases required for repair of oxidatively damaged bases. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10670-10675.	7.1	114
24	Activation of Ras Signaling Pathway by 8-Oxoguanine DNA Glycosylase Bound to Its Excision Product, 8-Oxoguanine. Journal of Biological Chemistry, 2012, 287, 20769-20773.	3.4	109
25	The Human Werner Syndrome Protein Stimulates Repair of Oxidative DNA Base Damage by the DNA Glycosylase NEIL1. Journal of Biological Chemistry, 2007, 282, 26591-26602.	3.4	100
26	Prereplicative repair of oxidized bases in the human genome is mediated by NEIL1 DNA glycosylase together with replication proteins. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3090-9.	7.1	90
27	Physical and Functional Interaction between Human Oxidized Base-specific DNA Glycosylase NEIL1 and Flap Endonuclease 1. Journal of Biological Chemistry, 2008, 283, 27028-27037.	3.4	89
28	Innate Inflammation Induced by the 8-Oxoguanine DNA Glycosylase-1â€“KRASâ€“NF-ÎºB Pathway. Journal of Immunology, 2014, 193, 4643-4653.	0.8	85
29	The Role of the Mammalian DNA End-processing Enzyme Polynucleotide Kinase 3â€™-Phosphatase in Spinocerebellar Ataxia Type 3 Pathogenesis. PLoS Genetics, 2015, 11, e1004749.	3.5	84
30	Acetylation of the human DNA glycosylase NEIL2 and inhibition of its activity. Nucleic Acids Research, 2004, 32, 3033-3039.	14.5	83
31	MOF Phosphorylation by ATM Regulates 53BP1-Mediated Double-Strand Break Repair Pathway Choice. Cell Reports, 2014, 8, 177-189.	6.4	83
32	Mutant huntingtin impairs PNKP and ATXN3, disrupting DNA repair and transcription. ELife, 2019, 8, .	6.0	83
33	Neil2-null Mice Accumulate Oxidized DNA Bases in the Transcriptionally Active Sequences of the Genome and Are Susceptible to Innate Inflammation. Journal of Biological Chemistry, 2015, 290, 24636-24648.	3.4	79
34	Role of Human DNA Glycosylase Nei-like 2 (NEIL2) and Single Strand Break Repair Protein Polynucleotide Kinase 3â€²-Phosphatase in Maintenance of Mitochondrial Genome. Journal of Biological Chemistry, 2012, 287, 2819-2829.	3.4	77
35	Down-regulation of 8-oxoguanine DNA glycosylase 1 expression in the airway epithelium ameliorates allergic lung inflammation. DNA Repair, 2013, 12, 18-26.	2.8	71
36	Inactivation of PNKP by Mutant ATXN3 Triggers Apoptosis by Activating the DNA Damage-Response Pathway in SCA3. PLoS Genetics, 2015, 11, e1004834.	3.5	69

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37	Stimulation of DNA Glycosylase Activity of OGG1 by NEIL1:Â Functional Collaboration between Two Human DNA Glycosylasesâ€. Biochemistry, 2004, 43, 11596-11604.	2.5	67
38	Activation of human O6-methylguanine-DNA methyltransferase gene by glucocorticoid hormone. Oncogene, 1999, 18, 525-532.	5.9	66
39	Specific Recognition of O⁶-Methylguanine in DNA by Active Site Mutants of Human O⁶-Methylguanine-DNA Methyltransferase. Biochemistry, 1997, 36, 5769-5776.	2.5	65
40	Induction of the Human Oxidized Base-specific DNA Glycosylase NEIL1 by Reactive Oxygen Species. Journal of Biological Chemistry, 2005, 280, 35272-35280.	3.4	64
41	The human checkpoint sensor Rad9â€“Rad1â€“Hus1 interacts with and stimulates NEIL1 glycosylase. Nucleic Acids Research, 2007, 35, 2463-2472.	14.5	64
42	Specific Inhibition of NEIL-initiated Repair of Oxidized Base Damage in Human Genome by Copper and Iron. Journal of Biological Chemistry, 2010, 285, 28812-28825.	3.4	64
43	The discovery of a new family of mammalian enzymes for repair of oxidatively damaged DNA, and its physiological implications. Carcinogenesis, 2003, 24, 155-157.	2.8	63
44	Functions of disordered regions in mammalian early base excision repair proteins. Cellular and Molecular Life Sciences, 2010, 67, 3573-3587.	5.4	63
45	Oxidative DNA damage and 8-hydroxy-2-deoxyguanosine DNA glycosylase/apurinic lyase in human breast cancer. Molecular Carcinogenesis, 2001, 31, 214-223.	2.7	62
46	PEG-functionalized zinc oxide nanoparticles induce apoptosis in breast cancer cells through reactive oxygen species-dependent impairment of DNA damage repair enzyme NEIL2. Free Radical Biology and Medicine, 2017, 103, 35-47.	2.9	61
47	Activation of cellular signaling by 8-oxoguanine DNA glycosylase-1-initiated DNA base excision repair. DNA Repair, 2013, 12, 856-863.	2.8	60
48	8-Oxoguanine DNA glycosylase-1-mediated DNA repair is associated with Rho GTPase activation and Î±-smooth muscle actin polymerization. Free Radical Biology and Medicine, 2014, 73, 430-438.	2.9	58
49	Reduced DNA double strand breaks in chlorambucil resistant cells are related to high DNA-PKcs activity and low oxidative stress. Toxicology, 2003, 193, 137-152.	4.2	56
50	RPA physically interacts with the human DNA glycosylase NEIL1 to regulate excision of oxidative DNA base damage in primer-template structures. DNA Repair, 2010, 9, 643-652.	2.8	53
51	Enhancement of NEIL1 Protein-initiated Oxidized DNA Base Excision Repair by Heterogeneous Nuclear Ribonucleoprotein U (hnRNP-U) via Direct Interaction. Journal of Biological Chemistry, 2012, 287, 34202-34211.	3.4	52
52	Effects of the stimuli-dependent enrichment of 8-oxoguanine DNA glycosylase1 on chromatinized DNA. Redox Biology, 2018, 18, 43-53.	9.0	47
53	Increased risk of lung cancer associated with a functionally impaired polymorphic variant of the human DNA glycosylase NEIL2. DNA Repair, 2012, 11, 570-578.	2.8	42
54	The C-terminal Domain (CTD) of Human DNA Glycosylase NEIL1 Is Required for Forming BERosome Repair Complex with DNA Replication Proteins at the Replicating Genome. Journal of Biological Chemistry, 2015, 290, 20919-20933.	3.4	41

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55	Increased ROS generation in subsets of OGG1 knockout fibroblast cells. Mechanisms of Ageing and Development, 2007, 128, 637-649.	4.6	37
56	Identification of a Zinc Finger Domain in the Human NEIL2 (Nei-like-2) Protein. Journal of Biological Chemistry, 2004, 279, 47132-47138.	3.4	36
57	The Pivotal Role of DNA Repair in Infection Mediated-Inflammation and Cancer. Frontiers in Microbiology, 2018, 9, 663.	3.5	36
58	Helicobacter pylori infection downregulates the DNA glycosylase NEIL2, resulting in increased genome damage and inflammation in gastric epithelial cells. Journal of Biological Chemistry, 2020, 295, 11082-11098.	3.4	35
59	NEIL2 Protects against Oxidative DNA Damage Induced by Sidestream Smoke in Human Cells. PLoS ONE, 2014, 9, e90261.	2.5	34
60	Purification and Characterization of NEIL1 and NEIL2, Members of a Distinct Family of Mammalian DNA Glycosylases for Repair of Oxidized Bases. Methods in Enzymology, 2006, 408, 33-48.	1.0	32
61	Myeloid differentiation protein 2 facilitates pollen- and cat danderâ€“induced innate and allergic airway inflammation. Journal of Allergy and Clinical Immunology, 2016, 137, 1506-1513.e2.	2.9	29
62	The DNA Glycosylase NEIL2 Suppresses Fusobacterium-Infection-Induced Inflammation and DNA Damage in Colonic Epithelial Cells. Cells, 2020, 9, 1980.	4.1	28
63	Deficiency in classical nonhomologous end-joiningâ€“mediated repair of transcribed genes is linked to SCA3 pathogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8154-8165.	7.1	28
64	PIAS1 modulates striatal transcription, DNA damage repair, and SUMOylation with relevance to Huntingtonâ€™s disease. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	28
65	Mutator phenotype of mammalian cells due to deficiency of NEIL1 DNA glycosylase, an oxidized base-specific repair enzyme. DNA Repair, 2008, 7, 1213-1220.	2.8	27
66	Induction of NEIL1 and NEIL2 DNA glycosylases in aniline-induced splenic toxicity. Toxicology and Applied Pharmacology, 2011, 251, 1-7.	2.8	19
67	Transcription coupled base excision repair in mammalian cells: So little is known and so much to uncover. DNA Repair, 2021, 107, 103204.	2.8	19
68	Action of human endonucleases III and VIII upon DNA-containing tandem dihydrouracil. DNA Repair, 2005, 4, 679-686.	2.8	16
69	Controlling resistant bacteria with a novel class of Î²-lactamase inhibitor peptides: from rational design to in vivo analyses. Scientific Reports, 2014, 4, 6015.	3.3	16
70	Innate mechanism of pollen- and cat danderâ€“induced oxidative stress and DNA damage in the airways. Journal of Allergy and Clinical Immunology, 2017, 140, 1436-1439.e5.	2.9	16
71	Intrapulmonary administration of purified NEIL2 abrogates NF-ÎºBâ€“mediated inflammation. Journal of Biological Chemistry, 2021, 296, 100723.	3.4	14
72	Suppression of oxidative phosphorylation in mouse embryonic fibroblast cells deficient in apurinic/apyrimidinic endonuclease. DNA Repair, 2015, 27, 40-48.	2.8	10

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73	Innate Immune Responses to RSV Infection Facilitated by OGG1, an Enzyme Repairing Oxidatively Modified DNA Base Lesions. Journal of Innate Immunity, 2022, 14, 593-614.	3.8	10
74	Pyridoxine enhances chemo-responsiveness of breast cancer stem cells via redox reconditioning. Free Radical Biology and Medicine, 2020, 152, 152-165.	2.9	9
75	DNA glycosylase NEIL2 functions in multiple cellular processes. Progress in Biophysics and Molecular Biology, 2021, 164, 72-80.	2.9	9
76	Amphotericin B and anidulafungin directly interact with DNA and induce oxidative damage in the mammalian genome. Molecular BioSystems, 2015, 11, 2551-2559.	2.9	5
77	Excision release of 5?hydroxycytosine oxidatively induced DNA base lesions from the lung genome by cat dander extract challenge stimulates allergic airway inflammation. Clinical and Experimental Allergy, 2018, 48, 1676-1687.	2.9	3
78	Feeling Stressed under the Sun? RPA1 Acetylation to the Rescue. Cell Reports, 2017, 20, 1995-1996.	6.4	0
79	Mutant Ataxinâ€3 inhibits 3â€™ phosphatase activity of human polynucleotide kinase 3â€²â€phosphatase (PNKP). FASEB Journal, 2013, 27, .	0.5	0
80	NEIL2 plays a critical role in limiting inflammation and preserving genomic integrity in H. pyloriâ€infected gastric epithelial cells. FASEB Journal, 2020, 34, 1-1.	0.5	0