

Geir Slupphaug

List of Publications by Year in descending order

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115
papers

10,795
citations

57758

44
h-index

30922

102
g-index

121
all docs

121
docs citations

121
times ranked

8747
citing authors

#	ARTICLE	IF	CITATIONS
1	DNA glycosylases in the base excision repair of DNA. <i>Biochemical Journal</i> , 1997, 325, 1-16.	3.7	774
2	Human uracil-DNA glycosylase deficiency associated with profoundly impaired immunoglobulin class-switch recombination. <i>Nature Immunology</i> , 2003, 4, 1023-1028.	14.5	573
3	Human and bacterial oxidative demethylases repair alkylation damage in both RNA and DNA. <i>Nature</i> , 2003, 421, 859-863.	27.8	558
4	Alkylation damage in DNA and RNA repair mechanisms and medical significance. <i>DNA Repair</i> , 2004, 3, 1389-1407.	2.8	541
5	A nucleotide-flipping mechanism from the structure of human uracil-DNA glycosylase bound to DNA. <i>Nature</i> , 1996, 384, 87-92.	27.8	520
6	The interacting pathways for prevention and repair of oxidative DNA damage. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2003, 531, 231-251.	1.0	458
7	Base excision repair initiation revealed by crystal structures and binding kinetics of human uracil-DNA glycosylase with DNA. <i>EMBO Journal</i> , 1998, 17, 5214-5226.	7.8	434
8	Uracil in DNA occurrence, consequences and repair. <i>Oncogene</i> , 2002, 21, 8935-8948.	5.9	423
9	Crystal structure and mutational analysis of human uracil-DNA glycosylase: Structural basis for specificity and catalysis. <i>Cell</i> , 1995, 80, 869-878.	28.9	361
10	Base excision repair of DNA in mammalian cells. <i>FEBS Letters</i> , 2000, 476, 73-77.	2.8	324
11	Post-replicative base excision repair in replication foci. <i>EMBO Journal</i> , 1999, 18, 3834-3844.	7.8	305
12	Uracil-DNA Glycosylase (UNG)-Deficient Mice Reveal a Primary Role of the Enzyme during DNA Replication. <i>Molecular Cell</i> , 2000, 5, 1059-1065.	9.7	300
13	hUNG2 Is the Major Repair Enzyme for Removal of Uracil from U:A Matches, U:G Mismatches, and U in Single-stranded DNA, with hSMUG1 as a Broad Specificity Backup. <i>Journal of Biological Chemistry</i> , 2002, 277, 39926-39936.	3.4	289
14	Properties of a Recombinant Human Uracil-DNA Glycosylase from the UNG Gene and Evidence that UNG Encodes the Major Uracil-DNA Glycosylase. <i>Biochemistry</i> , 1995, 34, 128-138.	2.5	260
15	Crystal structure of human uracil-DNA glycosylase in complex with a protein inhibitor: Protein mimicry of DNA. <i>Cell</i> , 1995, 82, 701-708.	28.9	253
16	Uracil-DNA glycosylase-DNA substrate and product structures: Conformational strain promotes catalytic efficiency by coupled stereoelectronic effects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 5083-5088.	7.1	251
17	Glucocorticoids inhibit the production of IL 6 from monocytes, endothelial cells and fibroblasts. <i>European Journal of Immunology</i> , 1990, 20, 2439-2443.	2.9	217
18	Cell cycle regulation of human DNA repair and chromatin remodeling genes. <i>DNA Repair</i> , 2015, 30, 53-67.	2.8	174

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19	Human AlkB Homolog 1 Is a Mitochondrial Protein That Demethylates 3-Methylcytosine in DNA and RNA. <i>Journal of Biological Chemistry</i> , 2008, 283, 25046-25056.	3.4	160
20	Human ABH3 structure and key residues for oxidative demethylation to reverse DNA/RNA damage. <i>EMBO Journal</i> , 2006, 25, 3389-3397.	7.8	157
21	Uracil in DNA – General mutagen, but normal intermediate in acquired immunity. <i>DNA Repair</i> , 2007, 6, 505-516.	2.8	157
22	Identification of a novel, widespread, and functionally important PCNA-binding motif. <i>Journal of Cell Biology</i> , 2009, 186, 645-654.	5.2	153
23	Nuclear and mitochondrial forms of human uracil-DNA glycosylase are encoded by the same gene. <i>Nucleic Acids Research</i> , 1993, 21, 2579-2584.	14.5	131
24	Cell cycle-specific UNG2 phosphorylations regulate protein turnover, activity and association with RPA. <i>EMBO Journal</i> , 2008, 27, 51-61.	7.8	115
25	DNA-uracil and human pathology. <i>Molecular Aspects of Medicine</i> , 2007, 28, 276-306.	6.4	111
26	Nuclear and mitochondrial splice forms of human uracil-DNA glycosylase contain a complex nuclear localisation signal and a strong classical mitochondrial localisation signal, respectively. <i>Nucleic Acids Research</i> , 1998, 26, 4611-4617.	14.5	103
27	B cells from hyper-IgM patients carrying UNG mutations lack ability to remove uracil from ssDNA and have elevated genomic uracil. <i>Journal of Experimental Medicine</i> , 2005, 201, 2011-2021.	8.5	103
28	Uracil in DNA and its processing by different DNA glycosylases. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 563-568.	4.0	102
29	UNG-initiated base excision repair is the major repair route for 5-fluorouracil in DNA, but 5-fluorouracil cytotoxicity depends mainly on RNA incorporation. <i>Nucleic Acids Research</i> , 2011, 39, 8430-8444.	14.5	93
30	Repair of U/G and U/A in DNA by UNG2-associated repair complexes takes place predominantly by short-patch repair both in proliferating and growth-arrested cells. <i>Nucleic Acids Research</i> , 2004, 32, 5486-5498.	14.5	92
31	Uracil – DNA glycosylases SMUG1 and UNG2 coordinate the initial steps of base excision repair by distinct mechanisms. <i>Nucleic Acids Research</i> , 2007, 35, 3879-3892.	14.5	91
32	The human methyltransferase ZCCHC4 catalyses N6-methyladenosine modification of 28S ribosomal RNA. <i>Nucleic Acids Research</i> , 2020, 48, 830-846.	14.5	88
33	A ubiquitin-dependent signalling axis specific for ALKBH-mediated DNA dealkylation repair. <i>Nature</i> , 2017, 551, 389-393.	27.8	83
34	Properties and functions of human uracil-DNA glycosylase from the UNG gene. <i>Progress in Molecular Biology and Translational Science</i> , 2001, 68, 365-386.	1.9	80
35	Consensus sequences for good and poor removal of uracil from double stranded DNA by uracil-DNA glycosylase. <i>Nucleic Acids Research</i> , 1993, 21, 2095-2101.	14.5	76
36	Cell cycle regulation and in vitro hybrid arrest analysis of the major human uracil-DNA glycosylase. <i>Nucleic Acids Research</i> , 1991, 19, 5131-5137.	14.5	74

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37	Immunocytochemical localization of myrosinase in <i>Brassica napus</i> L.. <i>Planta</i> , 1990, 180, 245-8.	3.2	69
38	AID expression in B-cell lymphomas causes accumulation of genomic uracil and a distinct AID mutational signature. <i>DNA Repair</i> , 2015, 25, 60-71.	2.8	59
39	XRCC1 coordinates disparate responses and multiprotein repair complexes depending on the nature and context of the DNA damage. <i>Environmental and Molecular Mutagenesis</i> , 2011, 52, 623-635.	2.2	56
40	Error-free versus mutagenic processing of genomic uracil—Relevance to cancer. <i>DNA Repair</i> , 2014, 19, 38-47.	2.8	55
41	Purification, Characterization and Partial Amino Acid Sequencing of $\hat{\text{I}}^2$ -thioglucosidase from <i>Brassica napus</i> L.. <i>Journal of Plant Physiology</i> , 1989, 134, 722-729.	3.5	53
42	Modulation of Cell Metabolic Pathways and Oxidative Stress Signaling Contribute to Acquired Melphalan Resistance in Multiple Myeloma Cells. <i>PLoS ONE</i> , 2015, 10, e0119857.	2.5	51
43	Protein Phosphatase 2A Holoenzyme Is Targeted to Peroxisomes by Piggybacking and Positively Affects Peroxisomal $\hat{\text{I}}^2$ -Oxidation. <i>Plant Physiology</i> , 2015, 167, 493-506.	4.8	51
44	Human mitochondrial uracil-DNA glycosylase preform (UNG1) is processed to two forms one of which is resistant to inhibition by AP sites. <i>Nucleic Acids Research</i> , 1998, 26, 4953-4959.	14.5	48
45	A robust, sensitive assay for genomic uracil determination by LC/MS/MS reveals lower levels than previously reported. <i>DNA Repair</i> , 2013, 12, 699-706.	2.8	46
46	NEIL3-Dependent Regulation of Cardiac Fibroblast Proliferation Prevents Myocardial Rupture. <i>Cell Reports</i> , 2017, 18, 82-92.	6.4	45
47	AlkB demethylases flip out in different ways. <i>DNA Repair</i> , 2008, 7, 1916-1923.	2.8	42
48	Uracil-DNA Glycosylase in Base Excision Repair and Adaptive Immunity. <i>Journal of Biological Chemistry</i> , 2011, 286, 16669-16680.	3.4	41
49	Synergistic Actions of Ogg1 and Mutyh DNA Glycosylases Modulate Anxiety-like Behavior in Mice. <i>Cell Reports</i> , 2015, 13, 2671-2678.	6.4	39
50	Cell Cycle Regulation and Subcellular Localization of the Major Human Uracil-DNA Glycosylase. <i>Experimental Cell Research</i> , 1995, 220, 292-297.	2.6	38
51	Monoclonal B-cell hyperplasia and leukocyte imbalance precede development of B-cell malignancies in uracil-DNA glycosylase deficient mice. <i>DNA Repair</i> , 2005, 4, 1432-1441.	2.8	38
52	The rate of base excision repair of uracil is controlled by the initiating glycosylase. <i>DNA Repair</i> , 2008, 7, 1869-1881.	2.8	38
53	Genomic uracil and human disease. <i>Experimental Cell Research</i> , 2006, 312, 2666-2672.	2.6	37
54	No cancer predisposition or increased spontaneous mutation frequencies in NEIL DNA glycosylases-deficient mice. <i>Scientific Reports</i> , 2017, 7, 4384.	3.3	37

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55	Characterization of the Uracil-DNA Glycosylase Activity of Epstein-Barr Virus BKRF3 and Its Role in Lytic Viral DNA Replication. <i>Journal of Virology</i> , 2007, 81, 1195-1208.	3.4	35
56	Strikingly different properties of uracil-DNA glycosylases UNG2 and SMUG1 may explain divergent roles in processing of genomic uracil. <i>DNA Repair</i> , 2012, 11, 587-593.	2.8	35
57	Divergent $\hat{2}$ -hairpins determine double-strand versus single-strand substrate recognition of human AlkB-homologues 2 and 3. <i>Nucleic Acids Research</i> , 2010, 38, 6447-6455.	14.5	34
58	A Combined Nuclear and Nucleolar Localization Motif in Activation-Induced Cytidine Deaminase (AID) Controls Immunoglobulin Class Switching. <i>Journal of Molecular Biology</i> , 2013, 425, 424-443.	4.2	32
59	Analysis of uracil-DNA glycosylases from the murine Ung gene reveals differential expression in tissues and in embryonic development and a subcellular sorting pattern that differs from the human homologues. <i>Nucleic Acids Research</i> , 2000, 28, 2277-2285.	14.5	31
60	Human Immunodeficiency Virus Type 1 Vpr Modulates Cellular Expression of UNG2 via a Negative Transcriptional Effect. <i>Journal of Virology</i> , 2009, 83, 10256-10263.	3.4	31
61	Xenopus CENP-A assembly into chromatin requires base excision repair proteins. <i>DNA Repair</i> , 2005, 4, 760-772.	2.8	30
62	Novel aspects of macromolecular repair and relationship to human disease. <i>Journal of Molecular Medicine</i> , 2004, 82, 280-297.	3.9	29
63	Combining H/D exchange mass spectroscopy and computational docking reveals extended DNA-binding surface on uracil-DNA glycosylase. <i>Nucleic Acids Research</i> , 2012, 40, 6070-6081.	14.5	28
64	SUMOylation coordinates BERosome assembly in Active DNA demethylation during cell differentiation. <i>EMBO Journal</i> , 2019, 38, .	7.8	28
65	NEIL1 Is the Major DNA Glycosylase that Processes 5-Hydroxyuracil in the Proximity of a DNA Single-Strand Break. <i>Biochemistry</i> , 2007, 46, 4158-4163.	2.5	27
66	Antibody cross-linking and target elution protocols used for immunoprecipitation significantly modulate signal-to noise ratio in downstream 2D-PAGE analysis. <i>Proteome Science</i> , 2011, 9, 45.	1.7	27
67	Low Incorporation of dUMP by Some Thermostable DNA Polymerases May Limit Their Use in PCR Amplifications. <i>Analytical Biochemistry</i> , 1993, 211, 164-169.	2.4	26
68	Identification of a Novel in Vivo Virus-targeted Phosphorylation Site in Interferon Regulatory Factor-3 (IRF3). <i>Journal of Biological Chemistry</i> , 2010, 285, 24904-24914.	3.4	26
69	Neil3-dependent base excision repair regulates lipid metabolism and prevents atherosclerosis in Apoe-deficient mice. <i>Scientific Reports</i> , 2016, 6, 28337.	3.3	26
70	Exercise training reverses cancer-induced oxidative stress and decrease in muscle COPS2/TRIP15/ALIEN. <i>Molecular Metabolism</i> , 2020, 39, 101012.	6.5	25
71	An Inverse Switch in DNA Base Excision and Strand Break Repair Contributes to Melphalan Resistance in Multiple Myeloma Cells. <i>PLoS ONE</i> , 2013, 8, e55493.	2.5	24
72	RNA Base Damage and Repair. <i>Current Pharmaceutical Biotechnology</i> , 2007, 8, 326-331.	1.6	22

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73	Novel <i>UCHL1</i> mutations reveal new insights into ubiquitin processing. <i>Human Molecular Genetics</i> , 2017, 26, dww391.	2.9	22
74	Aerobic interval training reduces inducible ventricular arrhythmias in diabetic mice after myocardial infarction. <i>Basic Research in Cardiology</i> , 2015, 110, 44.	5.9	21
75	The UNG2 Arg88Cys variant abrogates RPA-mediated recruitment of UNG2 to single-stranded DNA. <i>DNA Repair</i> , 2012, 11, 559-569.	2.8	20
76	Characterization of the proteome and lipidome profiles of human lung cells after low dose and chronic exposure to multiwalled carbon nanotubes. <i>Nanotoxicology</i> , 2018, 12, 138-152.	3.0	20
77	Uracil DNA N-Glycosylase Promotes Assembly of Human Centromere Protein A. <i>PLoS ONE</i> , 2011, 6, e17151.	2.5	19
78	Pso p27, a SERPINB3/B4-derived protein, is most likely a common autoantigen in chronic inflammatory diseases. <i>Clinical Immunology</i> , 2017, 174, 10-17.	3.2	19
79	Partial characterisation of gelatinolytic activities in herring (<i>Clupea harengus</i>) and sardine (<i>Sardina</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 675-683.	8.2	18
80	Photodynamic therapy with hexyl aminolevulinate induces carbonylation, posttranslational modifications and changed expression of proteins in cell survival and cell death pathways. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 1137.	2.9	18
81	Differential regulation of cysteine oxidative post-translational modifications in high and low aerobic capacity. <i>Scientific Reports</i> , 2018, 8, 17772.	3.3	18
82	<i>Trypanosoma cruzi</i> Contains a Single Detectable Uracil-DNA Glycosylase and Repairs Uracil Exclusively Via Short Patch Base Excision Repair. <i>Journal of Molecular Biology</i> , 2004, 342, 787-799.	4.2	16
83	mtSSB may sequester UNG1 at mitochondrial ssDNA and delay uracil processing until the dsDNA conformation is restored. <i>DNA Repair</i> , 2012, 11, 82-91.	2.8	16
84	Expression of O6-methylguanine-DNA methyltransferase and uracil-DNA glycosylase in human placentae from smokers and non-smokers. <i>Carcinogenesis</i> , 1992, 13, 1769-1773.	2.8	15
85	A targeted mass spectrometry immunoassay to quantify osteopontin in fresh-frozen breast tumors and adjacent normal breast tissues. <i>Journal of Proteomics</i> , 2019, 208, 103469.	2.4	14
86	Fading correction for fluorescence quantitation in confocal microscopy. <i>Cytometry</i> , 1996, 23, 187-195.	1.8	13
87	Opposite-base dependent excision of 5-formyluracil from DNA by hSMUG1. <i>International Journal of Radiation Biology</i> , 2009, 85, 413-420.	1.8	13
88	ALKBH3 partner ASCC3 mediates P-body formation and selective clearance of MMS-induced 1-methyladenosine and 3-methylcytosine from mRNA. <i>Journal of Translational Medicine</i> , 2021, 19, 287.	4.4	13
89	Eating Behavior and Glucagon-Like Peptide-1-Producing Cells in Interposed Ileum and Pancreatic Islets in Rats Subjected to Ileal Interposition Associated with Sleeve Gastrectomy. <i>Obesity Surgery</i> , 2013, 23, 39-49.	2.1	11
90	Proteome alterations associated with transformation of multiple myeloma to secondary plasma cell leukemia. <i>Oncotarget</i> , 2017, 8, 19427-19442.	1.8	11

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91	Atrial Myocyte Function and Ca ²⁺ Handling Is Associated with Inborn Aerobic Capacity. PLoS ONE, 2013, 8, e76568.	2.5	10
92	Backbone 1H, 13C and 15N chemical shift assignment of full-length human uracil DNA glycosylase UNG2. Biomolecular NMR Assignments, 2018, 12, 15-22.	0.8	10
93	HDACi mediate UNG2 depletion, dysregulated genomic uracil and altered expression of oncoproteins and tumor suppressors in B- and T-cell lines. Journal of Translational Medicine, 2020, 18, 159.	4.4	10
94	RPA2 winged-helix domain facilitates UNG-mediated removal of uracil from ssDNA; implications for repair of mutagenic uracil at the replication fork. Nucleic Acids Research, 2021, 49, 3948-3966.	14.5	10
95	Cancer-induced muscle atrophy is determined by intrinsic muscle oxidative capacity. FASEB Journal, 2021, 35, e21714.	0.5	10
96	Psoriasis pathogenesis " Pso p27 is generated from SCCA1 with chymase. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2014, 1842, 734-738.	3.8	9
97	On-column trypsinization allows for re-use of matrix in modified multiplexed inhibitor beads assay. Analytical Biochemistry, 2017, 523, 10-16.	2.4	9
98	Photodynamic treatment with hexyl-aminolevulinat mediat reversible thiol oxidation in core oxidative stress signaling proteins. Molecular BioSystems, 2016, 12, 796-805.	2.9	8
99	RNA in DNA repair. DNA Repair, 2020, 95, 102927.	2.8	8
100	NEIL1 and NEIL2 DNA glycosylases modulate anxiety and learning in a cooperative manner in mice. Communications Biology, 2021, 4, 1354.	4.4	8
101	Genomic Uracil and Aberrant Profile of Demethylation Intermediates in Epigenetics and Hematologic Malignancies. International Journal of Molecular Sciences, 2021, 22, 4212.	4.1	7
102	Long-Term Exposure to Nanosized TiO ₂ Triggers Stress Responses and Cell Death Pathways in Pulmonary Epithelial Cells. International Journal of Molecular Sciences, 2021, 22, 5349.	4.1	5
103	Psoriasis pathogenesis " Pso p27 constitutes a compact structure forming large aggregates. Biochemistry and Biophysics Reports, 2015, 2, 132-136.	1.3	4
104	UDP-glucose dehydrogenase expression is upregulated following EMT and differentially affects intracellular glycerophosphocholine and acetylaspartate levels in breast mesenchymal cell lines. Molecular Oncology, 2022, 16, 1816-1840.	4.6	4
105	Off-target responses in the HeLa proteome subsequent to transient plasmid-mediated transfection. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 84-90.	2.3	3
106	Enhanced base excision repair capacity in carotid atherosclerosis may protect nuclear DNA but not mitochondrial DNA. Free Radical Biology and Medicine, 2016, 97, 386-397.	2.9	3
107	Impact of HIV-1 Vpr manipulation of the DNA repair enzyme UNG2 on B lymphocyte class switch recombination. Journal of Translational Medicine, 2020, 18, 310.	4.4	3
108	Enzymology of Genomic Uracil Repair. , 2018, , 89-126.		2

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109	Fading correction for fluorescence quantitation in confocal microscopy. <i>Cytometry</i> , 1996, 23, 187-195.	1.8	1
110	Routes to Uracil in DNA. , 2018, , 47-88.		1
111	Changes in cellular signaling proteins in extracts from A549, H460, and U2OS cells treated with cisplatin or docetaxel. <i>Data in Brief</i> , 2017, 12, 18-21.	1.0	0
112	Genomic Uracil " Dangers and Benefits in Processing. , 2017, , 13-62.		0
113	Immunosuppressive adenosine - a novel treatment target for multiple myeloma. <i>Clinical Lymphoma, Myeloma and Leukemia</i> , 2019, 19, e137-e138.	0.4	0
114	Human Uracil-DNA Glycosylase. , 1999, , 221-236.		0
115	PRL-3 Mediates Survival of Primary Myeloma Cells. <i>Blood</i> , 2014, 124, 2040-2040.	1.4	0