

Peter J Mchugh

List of Publications by Year in descending order

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56
papers

3,743
citations

136950

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161849

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59
times ranked

4499
citing authors

#	ARTICLE	IF	CITATIONS
1	Defining the Roles of Nucleotide Excision Repair and Recombination in the Repair of DNA Interstrand Cross-Links in Mammalian Cells. <i>Molecular and Cellular Biology</i> , 2000, 20, 7980-7990.	2.3	401
2	Repair of DNA interstrand crosslinks: molecular mechanisms and clinical relevance. <i>Lancet Oncology</i> , The, 2001, 2, 483-490.	10.7	352
3	A prosurvival DNA damage-induced cytoplasmic interferon response is mediated by end resection factors and is limited by Trex1. <i>Genes and Development</i> , 2017, 31, 353-369.	5.9	168
4	PARP1 and PARP2 stabilise replication forks at base excision repair intermediates through Fbh1-dependent Rad51 regulation. <i>Nature Communications</i> , 2018, 9, 746.	12.8	156
5	DNA interstrand crosslink repair during G1 involves nucleotide excision repair and DNA polymerase η . <i>EMBO Journal</i> , 2006, 25, 1285-1294.	7.8	149
6	Repair of Intermediate Structures Produced at DNA Interstrand Cross-Links in <i>Saccharomyces cerevisiae</i> . <i>Molecular and Cellular Biology</i> , 2000, 20, 3425-3433.	2.3	145
7	Structural Basis of Metallo- β -Lactamase Inhibition by Captopril Stereoisomers. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 142-150.	3.2	134
8	A Small Molecule Inhibitor of the BLM Helicase Modulates Chromosome Stability in Human Cells. <i>Chemistry and Biology</i> , 2013, 20, 55-62.	6.0	128
9	Neuronal enhancers are hotspots for DNA single-strand break repair. <i>Nature</i> , 2021, 593, 440-444.	27.8	126
10	Human SNM1A and XPF-ERCC1 collaborate to initiate DNA interstrand cross-link repair. <i>Genes and Development</i> , 2011, 25, 1859-1870.	5.9	125
11	SJG-136 (NSC 694501), a Novel Rationally Designed DNA Minor Groove Interstrand Cross-Linking Agent with Potent and Broad Spectrum Antitumor Activity. <i>Cancer Research</i> , 2004, 64, 6693-6699.	0.9	123
12	XPF-ERCC1 Participates in the Fanconi Anemia Pathway of Cross-Link Repair. <i>Molecular and Cellular Biology</i> , 2009, 29, 6427-6437.	2.3	121
13	Defects in interstrand cross-link uncoupling do not account for the extreme sensitivity of ERCC1 and XPF cells to cisplatin. <i>Nucleic Acids Research</i> , 2002, 30, 3848-3856.	14.5	105
14	Microhomologies are prevalent at Cas9-induced larger deletions. <i>Nucleic Acids Research</i> , 2019, 47, 7402-7417.	14.5	100
15	Repeat expansions confer WRN dependence in microsatellite-unstable cancers. <i>Nature</i> , 2020, 586, 292-298.	27.8	95
16	The Chemical Biology of Human Metallo- β -Lactamase Fold Proteins. <i>Trends in Biochemical Sciences</i> , 2016, 41, 338-355.	7.5	87
17	DNA interstrand cross-link repair in <i>Saccharomyces cerevisiae</i> . <i>FEMS Microbiology Reviews</i> , 2007, 31, 109-133.	8.6	73
18	DNA Interstrand Cross-Link Repair in the <i>Saccharomyces cerevisiae</i> Cell Cycle: Overlapping Roles for PSO2 (SNM1) with MutS Factors and EXO1 during S Phase. <i>Molecular and Cellular Biology</i> , 2005, 25, 2297-2309.	2.3	68

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19	Replication Fork Reversal during DNA Interstrand Crosslink Repair Requires CMG Unloading. <i>Cell Reports</i> , 2018, 23, 3419-3428.	6.4	63
20	EXD2 promotes homologous recombination by facilitating DNA end resection. <i>Nature Cell Biology</i> , 2016, 18, 271-280.	10.3	61
21	Excision repair of nitrogen mustard-DNA adducts in <i>Saccharomyces cerevisiae</i> . <i>Nucleic Acids Research</i> , 1999, 27, 3259-3266.	14.5	57
22	Characterization of DNA Damage Inflicted by Free Radicals from a Mutagenic Sunscreen Ingredient and Its Location Using an <i>in vitro</i> Genetic Reversion Assay. <i>Photochemistry and Photobiology</i> , 1997, 66, 276-281.	2.5	53
23	Orchestrating the nucleases involved in DNA interstrand cross-link (ICL) repair. <i>Cell Cycle</i> , 2011, 10, 3999-4008.	2.6	53
24	DNA Interstrand Cross-Link Repair in the Cell Cycle: A Critical Role for Polymerase ζ in G ₁ Phase. <i>Cell Cycle</i> , 2006, 5, 1044-1047.	2.6	52
25	Human SNM1A suppresses the DNA repair defects of yeast <i>pso2</i> mutants. <i>DNA Repair</i> , 2008, 7, 230-238.	2.8	51
26	RPA activates the XPF \bullet ERCC 1 endonuclease to initiate processing of DNA interstrand crosslinks. <i>EMBO Journal</i> , 2017, 36, 2047-2060.	7.8	50
27	CSB interacts with SNM1A and promotes DNA interstrand crosslink processing. <i>Nucleic Acids Research</i> , 2015, 43, 247-258.	14.5	48
28	Characterization of the Human SNM1A and SNM1B/Apollo DNA Repair Exonucleases. <i>Journal of Biological Chemistry</i> , 2012, 287, 26254-26267.	3.4	44
29	The SNM1/Pso2 family of ICL repair nucleases: From yeast to man. <i>Environmental and Molecular Mutagenesis</i> , 2010, 51, 635-645.	2.2	43
30	Components of a Fanconi-Like Pathway Control Pso2-Independent DNA Interstrand Crosslink Repair in Yeast. <i>PLoS Genetics</i> , 2012, 8, e1002884.	3.5	41
31	In Silico Fragment-Based Design Identifies Subfamily B1 Metallo- β -lactamase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 1255-1260.	6.4	40
32	Antiviral activity of bone morphogenetic proteins and activins. <i>Nature Microbiology</i> , 2019, 4, 339-351.	13.3	39
33	Small molecule inhibitors uncover synthetic genetic interactions of human flap endonuclease 1 (FEN1) with DNA damage response genes. <i>PLoS ONE</i> , 2017, 12, e0179278.	2.5	36
34	Characterization of the SARS-CoV-2 ExoN (nsp14ExoN) complex: implications for its role in viral genome stability and inhibitor identification. <i>Nucleic Acids Research</i> , 2022, 50, 1484-1500.	14.5	36
35	<i>Schizosaccharomyces pombe</i> Checkpoint Response to DNA Interstrand Cross-Links. <i>Molecular and Cellular Biology</i> , 2003, 23, 4728-4737.	2.3	33
36	The structures of the SNM1A and SNM1B/Apollo nuclease domains reveal a potential basis for their distinct DNA processing activities. <i>Nucleic Acids Research</i> , 2015, 43, 11047-11060.	14.5	32

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37	Cephalosporins inhibit human metallo β -lactamase fold DNA repair nucleases SNM1A and SNM1B/apollo. <i>Chemical Communications</i> , 2016, 52, 6727-6730.	4.1	28
38	Human HEL308 Localizes to Damaged Replication Forks and Unwinds Lagging Strand Structures. <i>Journal of Biological Chemistry</i> , 2011, 286, 15832-15840.	3.4	27
39	A prototypical Fanconi anemia pathway in lower eukaryotes?. <i>Cell Cycle</i> , 2012, 11, 3739-3744.	2.6	26
40	The SNM1A DNA repair nuclease. <i>DNA Repair</i> , 2020, 95, 102941.	2.8	23
41	XPF protein levels determine sensitivity of malignant melanoma cells to oxaliplatin chemotherapy: Suitability as a biomarker for patient selection. <i>International Journal of Cancer</i> , 2014, 134, 1495-1503.	5.1	20
42	Structural and mechanistic insights into the Artemis endonuclease and strategies for its inhibition. <i>Nucleic Acids Research</i> , 2021, 49, 9310-9326.	14.5	20
43	A UV-Induced Genetic Network Links the RSC Complex to Nucleotide Excision Repair and Shows Dose-Dependent Rewiring. <i>Cell Reports</i> , 2013, 5, 1714-1724.	6.4	18
44	Squaramide-Based 5'-Phosphate Replacements Bind to the DNA Repair Exonuclease SNM1A. <i>ChemistrySelect</i> , 2018, 3, 12824-12829.	1.5	15
45	A hydroxamic-acid-containing nucleoside inhibits DNA repair nuclease SNM1A. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 8094-8105.	2.8	13
46	The HelQ human DNA repair helicase utilizes a PWI-like domain for DNA loading through interaction with RPA, triggering DNA unwinding by the HelQ helicase core. <i>NAR Cancer</i> , 2021, 3, zcaa043.	3.1	11
47	XPF-ERCC1: Linchpin of DNA crosslink repair. <i>PLoS Genetics</i> , 2020, 16, e1008616.	3.5	9
48	Genetic and functional insights into CDA-I prevalence and pathogenesis. <i>Journal of Medical Genetics</i> , 2021, 58, 185-195.	3.2	9
49	A phosphate binding pocket is a key determinant of exo- versus endo-nucleolytic activity in the SNM1 nuclease family. <i>Nucleic Acids Research</i> , 2021, 49, 9294-9309.	14.5	8
50	Mgm101: A double-duty Rad52-like protein. <i>Cell Cycle</i> , 2016, 15, 3169-3176.	2.6	7
51	Analysis of DNA Interstrand Cross-Links and their Repair by Modified Comet Assay. <i>Methods in Molecular Biology</i> , 2020, 2119, 79-88.	0.9	4
52	Apollo: A healer of the genome?. <i>Cell Cycle</i> , 2009, 8, 1979-1983.	2.6	3
53	Optimised oligonucleotide substrates to assay XPF-ERCC1 nuclease activity for the discovery of DNA repair inhibitors. <i>Chemical Communications</i> , 2019, 55, 11671-11674.	4.1	2
54	Apollo: a healer of the genome?. <i>Cell Cycle</i> , 2009, 8, 1980-1.	2.6	1

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55	Third EU-US workshop on "Nucleotide excision repair and crosslink repair" From molecules to mankind, Smolenice Castle, Slovak Republic, May 7th-11th 2017. DNA Repair, 2017, 58, 62-66.	2.8	0
56	Repair of DNA Interstrand Cross-links Produced by Cancer Chemotherapeutic Drugs. , 2013, , 1-23.		0