Mitch McVey

List of Publications by Year
in descending order

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44 papers	3,079 citations	257357 24 h-index	254106 43 g-index
46 all docs	46 docs citations	46 times ranked	4285 citing authors

#	Article	IF	Citations
1	MMEJ repair of double-strand breaks (directorâ€™s cut): deleted sequences and alternative endings. Trends in Genetics, 2008, 24, 529-538.	2.9	841
2	Errorâ€Prone Repair of DNA Doubleâ€Strand Breaks. Journal of Cellular Physiology, 2016, 231, 15-24.	2.0	284
3	Drosophila BLM in Double-Strand Break Repair by Synthesis-Dependent Strand Annealing. Science, 2003, 299, 265-267.	6.0	241
4	Dual Roles for DNA Polymerase Theta in Alternative End-Joining Repair of Double-Strand Breaks in Drosophila. PLoS Genetics, 2010, 6, e1001005.	1.5	203
5	Synthesis-dependent microhomology-mediated end joining accounts for multiple types of repair junctions. Nucleic Acids Research, 2010, 38, 5706-5717.	6.5	171
6	Eukaryotic DNA Polymerases in Homologous Recombination. Annual Review of Genetics, 2016, 50, 393-421.	3.2	121
7	Characteristics of de novo structural changes in the human genome. Genome Research, 2015, 25, 792-801.	2.4	115
8	Evidence for Multiple Cycles of Strand Invasion During Repair of Double-Strand Gaps in Drosophila. Genetics, 2004, 167, 699-705.	1.2	97
9	The Short Life Span of Saccharomyces cerevisiae sgs1 and srs2 Mutants Is a Composite of Normal Aging Processes and Mitotic Arrest Due to Defective Recombination. Genetics, 2001, 157, 1531-1542.	1.2	96
10	Multiple Functions of Drosophila BLM Helicase in Maintenance of Genome Stability. Genetics, 2007, 176, 1979-1992.	1.2	84
11	Formation of deletions during double-strand break repair in Drosophila DmBlm mutants occurs after strand invasion. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15694-15699.	3.3	83
12	End-Joining Repair of Double-Strand Breaks in Drosophila melanogaster Is Largely DNA Ligase IV Independent. Genetics, 2004, 168, 2067-2076.	1.2	81
13	Competition between Replicative and Translesion Polymerases during Homologous Recombination Repair in Drosophila. PLoS Genetics, 2012, 8, e1002659.	1.5	52
14	Separation of mother and daughter cells. Methods in Enzymology, 2002, 351, 468-477.	0.4	47
15	A case-based approach increases student learning outcomes and comprehension of cellular respiration concepts. Biochemistry and Molecular Biology Education, 2007, 35, 181-186.	0.5	46
16	Drosophila DNA polymerase theta utilizes both helicase-like and polymerase domains during microhomology-mediated end joining and interstrand crosslink repair. PLoS Genetics, 2017, 13, e1006813.	1.5	44
17	Two Classes of sir3 Mutants Enhance the sir1 Mutant Mating Defect and Abolish Telomeric Silencing in Saccharomyces cerevisiae. Genetics, 2000, 155, 509-522.	1.2	44
18	Strategies for DNA interstrand crosslink repair: Insights from worms, flies, frogs, and slime molds. Environmental and Molecular Mutagenesis, 2010, 51, 646-658.	0.9	41

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19	Linking DNA polymerase theta structure and function in health and disease. Cellular and Molecular Life Sciences, 2016, 73, 603-615.	2.4	38
20	Regulation of Error-Prone DNA Double-Strand Break Repair and Its Impact on Genome Evolution. Cells, 2020, 9, 1657.	1.8	36
21	DNA damage as an indicator of chronic stress: Correlations with corticosterone and uric acid. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2019, 227, 116-122.	0.8	35
22	AGEID: a database of aging genes and interventions. Mechanisms of Ageing and Development, 2002, 123, 1115-1119.	2.2	34
23	Multiple mechanisms contribute to double-strand break repair at rereplication forks in Drosophila follicle cells. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13809-13814.	3.3	30
24	Secondary structure forming sequences drive SD-MMEJ repair of DNA double-strand breaks. Nucleic Acids Research, 2017, 45, 12848-12861.	6.5	30
25	Using Yeast to Discover the Fountain of Youth. Science of Aging Knowledge Environment: SAGE KE, 2001, 2001, 1pe-1.	0.9	25
26	Loss of the bloom syndrome helicase increases DNA ligase 4-independent genome rearrangements and tumorigenesis in aging Drosophila. Genome Biology, 2011, 12, R121.	13.9	24
27	Removal of the Bloom Syndrome DNA Helicase Extends the Utility of Imprecise Transposon Excision for Making Null Mutations in Drosophila. Genetics, 2009, 183, 1187-1193.	1.2	17
28	Common Variants ofDrosophila melanogasterCyp6d2 Cause Camptothecin Sensitivity and Synergize With Loss of Brca2. G3: Genes, Genomes, Genetics, 2013, 3, 91-99.	0.8	17
29	The Drosophila Werner Exonuclease Participates in an Exonuclease-Independent Response to Replication Stress. Genetics, 2014, 197, 643-652.	1.2	15
30	The Drosophila melanogaster PIF1 Helicase Promotes Survival During Replication Stress and Processive DNA Synthesis During Double-Strand Gap Repair. Genetics, 2019, 213, 835-847.	1.2	13
31	RPA puts the brakes on MMEJ. Nature Structural and Molecular Biology, 2014, 21, 348-349.	3.6	11
32	Beyond corticosterone: The acute stress response increases DNA damage in house sparrows. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2020, 333, 595-606.	0.9	9
33	In Vivo Analysis of Drosophila BLM Helicase Function During DNA Double-Strand Gap Repair. Methods in Molecular Biology, 2009, 587, 185-194.	0.4	8
34	Evidence for premature aging in a Drosophila model of Werner syndrome. Experimental Gerontology, 2019, 127, 110733.	1.2	7
35	Sertraline induces DNA damage and cellular toxicity in Drosophila that can be ameliorated by antioxidants. Scientific Reports, 2020, 10, 4512.	1.6	7
36	Using Poetry in the Undergraduate Biology Classroom. American Biology Teacher, 2020, 82, 416-420.	0.1	6

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37	The DNA polymerases of Drosophila melanogaster. Fly, 2020, 14, 49-61.	0.9	6
38	Division of Labor by the HELQ, BLM, and FANCM Helicases during Homologous Recombination Repair in Drosophila melanogaster. Genes, 2022, 13, 474.	1.0	5
39	Characterization of sequence contexts that favor alternative end joining at Cas9-induced double-strand breaks. Nucleic Acids Research, 2022, 50, 7465-7478.	6.5	5
40	Super-sized deletions: Improved transposon excision screens using a mus309 mutant background. Fly, 2010, 4, 137-140.	0.9	4
41	Recovery of Alternative End-Joining Repair Products From Drosophila Embryos. Methods in Enzymology, 2018, 601, 91-110.	0.4	2
42	Rapid Detection of Î³-H2Av Foci in Ex Vivo MMS-Treated Drosophila Imaginal Discs. Methods in Molecular Biology, 2017, 1644, 203-211.	0.4	2
43	Background DNA damage is higher in summer than winter in both freeâ€living and captive birds. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2022, 337, 789-794.	0.9	1
44	Beer and Aging. Science of Aging Knowledge Environment: SAGE KE, 2001, 2001, 5vp-5.	0.9	0