

# Mitch McVey

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

3,079  
citations

257450

24  
h-index

254184

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.	6.7	841
2	Errorâ€™Prone Repair of DNA Doubleâ€™Strand Breaks. Journal of Cellular Physiology, 2016, 231, 15-24.	4.1	284
3	<i>Drosophila</i> BLM in Double-Strand Break Repair by Synthesis-Dependent Strand Annealing. Science, 2003, 299, 265-267.	12.6	241
4	Dual Roles for DNA Polymerase Theta in Alternative End-Joining Repair of Double-Strand Breaks in <i>Drosophila</i> . PLoS Genetics, 2010, 6, e1001005.	3.5	203
5	Synthesis-dependent microhomology-mediated end joining accounts for multiple types of repair junctions. Nucleic Acids Research, 2010, 38, 5706-5717.	14.5	171
6	Eukaryotic DNA Polymerases in Homologous Recombination. Annual Review of Genetics, 2016, 50, 393-421.	7.6	121
7	Characteristics of de novo structural changes in the human genome. Genome Research, 2015, 25, 792-801.	5.5	115
8	Evidence for Multiple Cycles of Strand Invasion During Repair of Double-Strand Gaps in <i>Drosophila</i> . Genetics, 2004, 167, 699-705.	2.9	97
9	The Short Life Span of <i>Saccharomyces cerevisiae</i> <i>sgs1</i> and <i>srs2</i> Mutants Is a Composite of Normal Aging Processes and Mitotic Arrest Due to Defective Recombination. Genetics, 2001, 157, 1531-1542.	2.9	96
10	Multiple Functions of <i>Drosophila</i> BLM Helicase in Maintenance of Genome Stability. Genetics, 2007, 176, 1979-1992.	2.9	84
11	Formation of deletions during double-strand break repair in <i>Drosophila</i> DmBlm mutants occurs after strand invasion. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15694-15699.	7.1	83
12	End-Joining Repair of Double-Strand Breaks in <i>Drosophila melanogaster</i> Is Largely DNA Ligase IV Independent. Genetics, 2004, 168, 2067-2076.	2.9	81
13	Competition between Replicative and Translesion Polymerases during Homologous Recombination Repair in <i>Drosophila</i> . PLoS Genetics, 2012, 8, e1002659.	3.5	52
14	Separation of mother and daughter cells. Methods in Enzymology, 2002, 351, 468-477.	1.0	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.	1.2	46
16	<i>Drosophila</i> DNA polymerase theta utilizes both helicase-like and polymerase domains during microhomology-mediated end joining and interstrand crosslink repair. PLoS Genetics, 2017, 13, e1006813.	3.5	44
17	Two Classes of <i>sir3</i> Mutants Enhance the <i>sir1</i> Mutant Mating Defect and Abolish Telomeric Silencing in <i>Saccharomyces cerevisiae</i> . Genetics, 2000, 155, 509-522.	2.9	44
18	Strategies for DNA interstrand crosslink repair: Insights from worms, flies, frogs, and slime molds. Environmental and Molecular Mutagenesis, 2010, 51, 646-658.	2.2	41

#	ARTICLE	IF	CITATIONS
19	Linking DNA polymerase theta structure and function in health and disease. Cellular and Molecular Life Sciences, 2016, 73, 603-615.	5.4	38
20	Regulation of Error-Prone DNA Double-Strand Break Repair and Its Impact on Genome Evolution. Cells, 2020, 9, 1657.	4.1	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.	1.8	35
22	AGEID: a database of aging genes and interventions. Mechanisms of Ageing and Development, 2002, 123, 1115-1119.	4.6	34
23	Multiple mechanisms contribute to double-strand break repair at rereplication forks in <i>Drosophila</i> follicle cells. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13809-13814.	7.1	30
24	Secondary structure forming sequences drive SD-MMEJ repair of DNA double-strand breaks. Nucleic Acids Research, 2017, 45, 12848-12861.	14.5	30
25	Using Yeast to Discover the Fountain of Youth. Science of Aging Knowledge Environment: SAGE KE, 2001, 2001, 1pe-1.	0.8	25
26	Loss of the bloom syndrome helicase increases DNA ligase 4-independent genome rearrangements and tumorigenesis in aging <i>Drosophila</i> . Genome Biology, 2011, 12, R121.	9.6	24
27	Removal of the Bloom Syndrome DNA Helicase Extends the Utility of Imprecise Transposon Excision for Making Null Mutations in <i>Drosophila</i> . Genetics, 2009, 183, 1187-1193.	2.9	17
28	Common Variants of <i>Drosophila melanogaster</i> Cyp6d2 Cause Camptothecin Sensitivity and Synergize With Loss of Brca2. G3: Genes, Genomes, Genetics, 2013, 3, 91-99.	1.8	17
29	The <i>Drosophila</i> Werner Exonuclease Participates in an Exonuclease-Independent Response to Replication Stress. Genetics, 2014, 197, 643-652.	2.9	15
30	The <i>Drosophila melanogaster</i> PIF1 Helicase Promotes Survival During Replication Stress and Processive DNA Synthesis During Double-Strand Gap Repair. Genetics, 2019, 213, 835-847.	2.9	13
31	RPA puts the brakes on MMEJ. Nature Structural and Molecular Biology, 2014, 21, 348-349.	8.2	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.	1.9	9
33	In Vivo Analysis of <i>Drosophila</i> BLM Helicase Function During DNA Double-Strand Gap Repair. Methods in Molecular Biology, 2009, 587, 185-194.	0.9	8
34	Evidence for premature aging in a <i>Drosophila</i> model of Werner syndrome. Experimental Gerontology, 2019, 127, 110733.	2.8	7
35	Sertraline induces DNA damage and cellular toxicity in <i>Drosophila</i> that can be ameliorated by antioxidants. Scientific Reports, 2020, 10, 4512.	3.3	7
36	Using Poetry in the Undergraduate Biology Classroom. American Biology Teacher, 2020, 82, 416-420.	0.2	6

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37	The DNA polymerases of <i>Drosophila melanogaster</i> . <i>Fly</i> , 2020, 14, 49-61.	1.7	6
38	Division of Labor by the HELQ, BLM, and FANCM Helicases during Homologous Recombination Repair in <i>Drosophila melanogaster</i> . <i>Genes</i> , 2022, 13, 474.	2.4	5
39	Characterization of sequence contexts that favor alternative end joining at Cas9-induced double-strand breaks. <i>Nucleic Acids Research</i> , 2022, 50, 7465-7478.	14.5	5
40	Super-sized deletions: Improved transposon excision screens using a mus309 mutant background. <i>Fly</i> , 2010, 4, 137-140.	1.7	4
41	Recovery of Alternative End-Joining Repair Products From <i>Drosophila</i> Embryos. <i>Methods in Enzymology</i> , 2018, 601, 91-110.	1.0	2
42	Rapid Detection of $^3\text{H}$ -H2Av Foci in Ex Vivo MMS-Treated <i>Drosophila</i> Imaginal Discs. <i>Methods in Molecular Biology</i> , 2017, 1644, 203-211.	0.9	2
43	Background DNA damage is higher in summer than winter in both free-living and captive birds. <i>Journal of Experimental Zoology Part A: Ecological and Integrative Physiology</i> , 2022, 337, 789-794.	1.9	1
44	Beer and Aging. <i>Science of Aging Knowledge Environment: SAGE KE</i> , 2001, 2001, 5vp-5.	0.8	0