

Jeff Sekelsky

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,813
citations

186265

28
h-index

189892

50
g-index

89
all docs

89
docs citations

89
times ranked

2679
citing authors

#	ARTICLE	IF	CITATIONS
1	The mei-41 gene of <i>D. melanogaster</i> is a structural and functional homolog of the human ataxia telangiectasia gene. <i>Cell</i> , 1995, 82, 815-821.	28.9	294
2	<i>Drosophila</i> MUS312 and the Vertebrate Ortholog BTBD12 Interact with DNA Structure-Specific Endonucleases in DNA Repair and Recombination. <i>Molecular Cell</i> , 2009, 35, 128-135.	9.7	159
3	Drawing a stripe in <i>Drosophila</i> imaginal disks: negative regulation of decapentaplegic and patched expression by engrailed.. <i>Genetics</i> , 1995, 139, 745-756.	2.9	125
4	From sequence to phenotype: reverse genetics in <i>drosophila melanogaster</i> . <i>Nature Reviews Genetics</i> , 2002, 3, 189-198.	16.8	121
5	DNA Repair in <i>Drosophila</i> . <i>Journal of Cell Biology</i> , 2000, 150, F31-F36.	5.2	118
6	Meiotic versus mitotic recombination: Two different routes for double-strand break repair. <i>BioEssays</i> , 2010, 32, 1058-1066.	2.5	116
7	<i>Drosophila</i> MUS312 Interacts with the Nucleotide Excision Repair Endonuclease MEI-9 to Generate Meiotic Crossovers. <i>Molecular Cell</i> , 2002, 10, 1503-1509.	9.7	102
8	DNA Repair in <i>Drosophila</i> : Mutagens, Models, and Missing Genes. <i>Genetics</i> , 2017, 205, 471-490.	2.9	99
9	Evidence for Multiple Cycles of Strand Invasion During Repair of Double-Strand Gaps in <i>Drosophila</i> . <i>Genetics</i> , 2004, 167, 699-705.	2.9	97
10	REC, <i>Drosophila</i> MCM8, Drives Formation of Meiotic Crossovers. <i>PLoS Genetics</i> , 2005, 1, e40.	3.5	97
11	Mechanistic basis for microhomology identification and genome scarring by polymerase theta. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 8476-8485.	7.1	96
12	Interstrand crosslink repair: can XPF-ERCC1 be let off the hook?. <i>Trends in Genetics</i> , 2008, 24, 70-76.	6.7	95
13	Multiple Functions of <i>Drosophila</i> BLM Helicase in Maintenance of Genome Stability. <i>Genetics</i> , 2007, 176, 1979-1992.	2.9	84
14	Formation of deletions during double-strand break repair in <i>Drosophila</i> DmBlm mutants occurs after strand invasion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 15694-15699.	7.1	83
15	Meiotic and Mitotic Recombination in Meiosis. <i>Genetics</i> , 2013, 194, 327-334.	2.9	83
16	Local Inversion Heterozygosity Alters Recombination throughout the Genome. <i>Current Biology</i> , 2018, 28, 2984-2990.e3.	3.9	74
17	Phenotypic Analysis of Separation-of-Function Alleles of MEI-41, <i>Drosophila</i> ATM/ATR. <i>Genetics</i> , 2003, 164, 589-601.	2.9	71
18	Mitotic Recombination: Why? When? How? Where?. <i>PLoS Genetics</i> , 2009, 5, e1000411.	3.5	68

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19	The Development of a Monoclonal Antibody Recognizing the <i>Drosophila melanogaster</i> Phosphorylated Histone H2A Variant (³ H2AV). <i>G3: Genes, Genomes, Genetics</i> , 2013, 3, 1539-1543.	1.8	67
20	Evolution of an MCM Complex in Flies That Promotes Meiotic Crossovers by Blocking BLM Helicase. <i>Science</i> , 2012, 338, 1363-1365.	12.6	61
21	<i>Drosophila</i> ATR in Double-Strand Break Repair. <i>Genetics</i> , 2007, 175, 1023-1033.	2.9	57
22	Synthetic Lethality of <i>Drosophila</i> in the Absence of the MUS81 Endonuclease and the DmBlm Helicase Is Associated With Elevated Apoptosis. <i>Genetics</i> , 2007, 176, 1993-2001.	2.9	49
23	Nucleotide excision repair endonuclease genes in <i>Drosophila melanogaster</i> . <i>Mutation Research DNA Repair</i> , 2000, 459, 219-228.	3.7	48
24	Bloom Syndrome Helicase Promotes Meiotic Crossover Patterning and Homolog Disjunction. <i>Current Biology</i> , 2017, 27, 96-102.	3.9	46
25	Three Structure-Selective Endonucleases Are Essential in the Absence of BLM Helicase in <i>Drosophila</i> . <i>PLoS Genetics</i> , 2011, 7, e1002315.	3.5	43
26	<i>Drosophila</i> ERCC1 Is Required for a Subset of MEI-9-Dependent Meiotic Crossovers. <i>Genetics</i> , 2005, 170, 1737-1745.	2.9	42
27	Meiotic Crossover Patterning. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 681123.	3.7	35
28	Heteroduplex DNA in Meiotic Recombination in <i>Drosophila mei-9</i> Mutants. <i>Genetics</i> , 2007, 176, 63-72.	2.9	30
29	Meiotic Recombination in <i>Drosophila Msh6</i> Mutants Yields Discontinuous Gene Conversion Tracts. <i>Genetics</i> , 2007, 176, 53-62.	2.9	29
30	Eliminating Both Canonical and Short-Patch Mismatch Repair in <i>Drosophila melanogaster</i> Suggests a New Meiotic Recombination Model. <i>PLoS Genetics</i> , 2014, 10, e1004583.	3.5	28
31	Bloom syndrome helicase in meiosis: Pro-crossover functions of an anti-crossover protein. <i>BioEssays</i> , 2017, 39, 1700073.	2.5	23
32	<i>Drosophila</i> FANCM Helicase Prevents Spontaneous Mitotic Crossovers Generated by the MUS81 and SLX1 Nucleases. <i>Genetics</i> , 2014, 198, 935-945.	2.9	22
33	Substrate preference of Gen endonucleases highlights the importance of branched structures as DNA damage repair intermediates. <i>Nucleic Acids Research</i> , 2017, 45, 5333-5348.	14.5	21
34	Centromere-Proximal Meiotic Crossovers in <i>Drosophila melanogaster</i> Are Suppressed by Both Highly Repetitive Heterochromatin and Proximity to the Centromere. <i>Genetics</i> , 2019, 213, 113-125.	2.9	21
35	Loss of <i>Drosophila</i> Mei-41/ATR Alters Meiotic Crossover Patterning. <i>Genetics</i> , 2018, 208, 579-588.	2.9	19
36	DNA polymerase theta suppresses mitotic crossing over. <i>PLoS Genetics</i> , 2021, 17, e1009267.	3.5	19

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37	Annealing of Complementary DNA Sequences During Double-Strand Break Repair in <i>Drosophila</i> Is Mediated by the Ortholog of SMARCAL1. <i>Genetics</i> , 2017, 206, 467-480.	2.9	17
38	Sources and Structures of Mitotic Crossovers That Arise When BLM Helicase Is Absent in <i>Drosophila</i> . <i>Genetics</i> , 2014, 196, 107-118.	2.9	16
39	The absence of crossovers on chromosome 4 in <i>Drosophila melanogaster</i> : Imperfection or interesting exception?. <i>Fly</i> , 2017, 11, 253-259.	1.7	15
40	Transcription Initiation From Within <i>P</i> Elements Generates Hypomorphic Mutations in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2011, 188, 749-752.	2.9	13
41	A pathway for error-free non-homologous end joining of resected meiotic double-strand breaks. <i>Nucleic Acids Research</i> , 2021, 49, 879-890.	14.5	13
42	An elegans Solution for Crossover Formation. <i>PLoS Genetics</i> , 2013, 9, e1003658.	3.5	11
43	Centromeric SMC1 promotes centromere clustering and stabilizes meiotic homolog pairing. <i>PLoS Genetics</i> , 2019, 15, e1008412.	3.5	11
44	Variation in Meiotic Recombination Frequencies Between Allelic Transgenes Inserted at Different Sites in the <i>Drosophila melanogaster</i> Genome. <i>G3: Genes, Genomes, Genetics</i> , 2013, 3, 1419-1427.	1.8	9
45	Meiotic MCM Proteins Promote and Inhibit Crossovers During Meiotic Recombination. <i>Genetics</i> , 2019, 212, 461-468.	2.9	9
46	Unique invasions and resolutions: DNA repair proteins in meiotic recombination in <i>Drosophila melanogaster</i> . <i>Cytogenetic and Genome Research</i> , 2004, 107, 172-179.	1.1	8
47	Biochemical Activities and Genetic Functions of the <i>Drosophila melanogaster</i> Fancm Helicase in DNA Repair. <i>Genetics</i> , 2016, 204, 531-541.	2.9	8
48	Human Cell Assays for Synthesis-Dependent Strand Annealing and Crossing over During Double-Strand Break Repair. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 1191-1199.	1.8	8
49	Reducing DNA Polymerase $\hat{\pm}$ in the Absence of <i>Drosophila</i> ATR Leads to P53-Dependent Apoptosis and Developmental Defects. <i>Genetics</i> , 2007, 176, 1441-1451.	2.9	7
50	DNA damage responses in <i>Drosophila</i> nbs mutants with reduced or altered NBS function. <i>DNA Repair</i> , 2009, 8, 803-812.	2.8	6
51	Blm helicase facilitates rapid replication of repetitive DNA sequences in early <i>Drosophila</i> development. <i>Genetics</i> , 2022, 220, .	2.9	5
52	CSB-independent, XPC-dependent transcription-coupled repair in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	5
53	Targeted Gene Replacement in <i>Drosophila</i> Goes the Distance. <i>Genetics</i> , 2013, 193, 377-381.	2.9	2
54	The <i>Drosophila melanogaster</i> Ortholog of RFD3 Functions Independently of RAD51 During DNA Repair. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 999-1004.	1.8	2

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55	The 2008 Genetics Society of America Award for Excellence in Education. <i>Genetics</i> , 2008, 178, 1131-1133.	2.9	1
56	Meiotic and Mitotic Recombination. , 2016, , 139-154.		1
57	Meiotic and mitotic recombination: First in flies. , 2021, , 151-168.		1
58	REC, <i>Drosophila</i> MCM8, Drives Formation of Meiotic Crossovers. <i>PLoS Genetics</i> , 2005, preprint, e40.	3.5	0
59	Centromeric SMC1 promotes centromere clustering and stabilizes meiotic homolog pairing. , 2019, 15, e1008412.		0
60	Centromeric SMC1 promotes centromere clustering and stabilizes meiotic homolog pairing. , 2019, 15, e1008412.		0