

Stephen W Schaeffer

List of Publications by Year in descending order

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58
papers

5,070
citations

172457

29
h-index

155660

55
g-index

64
all docs

64
docs citations

64
times ranked

4993
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of genes and genomes on the <i>Drosophila</i> phylogeny. <i>Nature</i> , 2007, 450, 203-218.	27.8	1,886
2	Comparative genome sequencing of <i>Drosophila pseudoobscura</i> : Chromosomal, gene, and cis-element evolution. <i>Genome Research</i> , 2005, 15, 1-18.	5.5	453
3	Polytene Chromosomal Maps of 11 <i>Drosophila</i> Species: The Order of Genomic Scaffolds Inferred From Genetic and Physical Maps. <i>Genetics</i> , 2008, 179, 1601-1655.	2.9	191
4	Natural Selection and the Frequency Distributions of α -DNA Polymorphism in <i>Drosophila</i> . <i>Genetics</i> , 1997, 146, 295-307.	2.9	188
5	Chromosomal Rearrangement Inferred From Comparisons of 12 <i>Drosophila</i> Genomes. <i>Genetics</i> , 2008, 179, 1657-1680.	2.9	184
6	Estimates of linkage disequilibrium and the recombination parameter determined from segregating nucleotide sites in the alcohol dehydrogenase region of <i>Drosophila pseudoobscura</i> .. <i>Genetics</i> , 1993, 135, 541-552.	2.9	121
7	Nucleotide Sequence of the <i>Adh</i> Gene Region of <i>Drosophila pseudoobscura</i> : Evolutionary Change and Evidence for an Ancient Gene Duplication. <i>Genetics</i> , 1987, 117, 61-73.	2.9	115
8	S-allele sequence diversity in natural populations of <i>Solanum carolinense</i> (Horsenettle). <i>Heredity</i> , 1995, 75, 405-415.	2.6	109
9	Sulfide binding is mediated by zinc ions discovered in the crystal structure of a hydrothermal vent tubeworm hemoglobin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 2713-2718.	7.1	109
10	Evolutionary genomics of inversions in <i>Drosophila pseudoobscura</i> : Evidence for epistasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 8319-8324.	7.1	108
11	Tubeworm succession at hydrothermal vents: use of biogenic cues to reduce habitat selection error?. <i>Oecologia</i> , 2000, 123, 275-284.	2.0	103
12	Molecular evolution of inversions in <i>Drosophila pseudoobscura</i> : the amylase gene region.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 305-309.	7.1	101
13	Divergence Between the <i>Drosophila pseudoobscura</i> and <i>D. persimilis</i> Genome Sequences in Relation to Chromosomal Inversions. <i>Genetics</i> , 2007, 177, 1417-1428.	2.9	97
14	Nucleotide sequence analysis of <i>Adh</i> genes estimates the time of geographic isolation of the Bogota population of <i>Drosophila pseudoobscura</i> .. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 6097-6101.	7.1	81
15	Molecular population genetics of sequence length diversity in the <i>Adh</i> region of <i>Drosophila pseudoobscura</i> . <i>Genetical Research</i> , 2002, 80, 163-175.	0.9	70
16	Ancestral polymorphisms explain the role of chromosomal inversions in speciation. <i>PLoS Genetics</i> , 2018, 14, e1007526.	3.5	67
17	How chromosomal rearrangements shape adaptation and speciation: Case studies in <i>Drosophila pseudoobscura</i> and its sibling species <i>Drosophila persimilis</i> . <i>Molecular Ecology</i> , 2019, 28, 1283-1301.	3.9	67
18	Mechanisms of Genetic Exchange Within the Chromosomal Inversions of <i>Drosophila pseudoobscura</i> . <i>Genetics</i> , 2005, 171, 1729-1739.	2.9	66

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19	Broad geographic sampling reveals the shared basis and environmental correlates of seasonal adaptation in <i>Drosophila</i> . <i>ELife</i> , 2021, 10, .	6.0	66
20	Genomics of Natural Populations: How Differentially Expressed Genes Shape the Evolution of Chromosomal Inversions in <i>Drosophila pseudoobscura</i> . <i>Genetics</i> , 2016, 204, 287-301.	2.9	61
21	SELECTION IN HETEROGENEOUS ENVIRONMENTS MAINTAINS THE GENE ARRANGEMENT POLYMORPHISM OF <i>DROSOPHILA PSEUDOBSCURA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 3082-3099.	2.3	57
22	Restriction-map variation in the Notch region of <i>Drosophila melanogaster</i> .. <i>Molecular Biology and Evolution</i> , 1988, 5, 30-40.	8.9	54
23	Molecular Population Genetics of X-Linked Genes in <i>Drosophila pseudoobscura</i> . <i>Genetics</i> , 2000, 156, 155-172.	2.9	52
24	Restriction-map variation in the alcohol dehydrogenase region of <i>Drosophila pseudoobscura</i> .. <i>Molecular Biology and Evolution</i> , 1987, 4, 254-65.	8.9	49
25	Genomics of natural populations: Evolutionary forces that establish and maintain gene arrangements in <i>Drosophila pseudoobscura</i> . <i>Molecular Ecology</i> , 2017, 26, 6539-6562.	3.9	37
26	<i>Drosophila</i> Evolution over Space and Time (DEST): A New Population Genomics Resource. <i>Molecular Biology and Evolution</i> , 2021, 38, 5782-5805.	8.9	37
27	Population structure of the mussel <i>Bathymodiolus childressi</i> from Gulf of Mexico hydrocarbon seeps. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2006, 53, 1061-1072.	1.4	36
28	Species Distribution and Population Connectivity of Deep-Sea Mussels at Hydrocarbon Seeps in the Gulf of Mexico. <i>PLoS ONE</i> , 2015, 10, e0118460.	2.5	36
29	Species boundaries of Gulf of Mexico vestimentiferans (Polychaeta, Siboglinidae) inferred from mitochondrial genes. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010, 57, 1916-1925.	1.4	34
30	Muller's Elements in <i>Drosophila</i> : How the Search for the Genetic Basis for Speciation Led to the Birth of Comparative Genomics. <i>Genetics</i> , 2018, 210, 3-13.	2.9	34
31	Polymorphism and Divergence at a <i>Drosophila</i> Pseudogene Locus. <i>Genetics</i> , 1997, 147, 199-208.	2.9	32
32	Origin and Evolution of the Unique Tetra-Domain Hemoglobin from the Hydrothermal Vent Scale Worm <i>Branchipolynoe</i> . <i>Molecular Biology and Evolution</i> , 2010, 27, 143-152.	8.9	31
33	Restriction to large-scale gene flow vs. regional panmixia among cold seep <i>Escarpia</i> spp. (<i>Polychaeta</i> , <i>Siboglinidae</i>). <i>Molecular Ecology</i> , 2013, 22, 4147-4162.	3.9	26
34	Depth-dependent gene flow in Gulf of Mexico cold seep <i>Lamellibrachia</i> tubeworms (Annelida). <i>Journal of Molecular Evolution</i> , 2010, 70, 107-117.	2.0	25
35	Evolution of Single-Domain Globins in Hydrothermal Vent Scale-Worms. <i>Journal of Molecular Evolution</i> , 2017, 85, 172-187.	1.8	25
36	Environmental differences in hemoglobin gene expression in the hydrothermal vent tubeworm, <i>Ridgeia piscesae</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2007, 146, 326-337.	1.6	24

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37	Evolutionary History of the Third Chromosome Gene Arrangements of <i>Drosophila pseudoobscura</i> Inferred from Inversion Breakpoints. <i>Molecular Biology and Evolution</i> , 2011, 28, 2219-2229.	8.9	24
38	The ornithine decarboxylase gene of <i>Trypanosoma brucei</i> : Evidence for horizontal gene transfer from a vertebrate source. <i>Infection, Genetics and Evolution</i> , 2006, 6, 205-219.	2.3	21
39	Evidence for Stabilizing Selection on Codon Usage in Chromosomal Rearrangements of <i>Drosophila pseudoobscura</i> . <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 2433-2449.	1.8	17
40	Extensive Recombination Suppression and Epistatic Selection Causes Chromosome-Wide Differentiation of a Selfish Sex Chromosome in <i>Drosophila pseudoobscura</i> . <i>Genetics</i> , 2020, 216, 205-226.	2.9	17
41	Protein Variation in ADH and ADH-RELATED in <i>Drosophila pseudoobscura</i> : Linkage Disequilibrium Between Single Nucleotide Polymorphisms and Protein Alleles. <i>Genetics</i> , 2001, 159, 673-687.	2.9	17
42	Adaptive Evolution of Genes Duplicated from the <i>Drosophila pseudoobscura</i> neo-X Chromosome. <i>Molecular Biology and Evolution</i> , 2010, 27, 1963-1978.	8.9	16
43	Molecular Population Genetics of Inversion Breakpoint Regions in <i>Drosophila pseudoobscura</i> . <i>G3: Genes, Genomes, Genetics</i> , 2013, 3, 1151-1163.	1.8	16
44	A comprehensive package for DNA sequence analysis in FORTRAN IV for the PDP-11. <i>Nucleic Acids Research</i> , 1986, 14, 239-254.	14.5	15
45	The relevance of chromatin architecture to genome rearrangements in <i>Drosophila</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, .	4.0	9
46	Population genetics of <i>Melampus bidentatus</i> (Gastropoda: Pulmonata): the effect of planktonic development on gene flow. <i>Genetica</i> , 1985, 66, 223-229.	1.1	8
47	Population structure of two deep sea tubeworms, <i>Lamellibrachia luymesii</i> and <i>Seepiophila jonesi</i> , from the hydrocarbon seeps of the Gulf of Mexico. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2010, 57, 1499-1509.	1.4	8
48	Exemplar or matching: modeling DCJ problems with unequal content genome data. <i>Journal of Combinatorial Optimization</i> , 2016, 32, 1165-1181.	1.3	8
49	Selective forces acting during multi-domain protein evolution: the case of multi-domain globins. <i>SpringerPlus</i> , 2015, 4, 354.	1.2	7
50	Phylogenomic Resources at the UCSC Genome Browser. <i>Methods in Molecular Biology</i> , 2008, 422, 133-144.	0.9	7
51	Meiotic Transmission of <i>Drosophila pseudoobscura</i> Chromosomal Arrangements. <i>PLoS ONE</i> , 2007, 2, e530.	2.5	6
52	Identification and amplification of microsatellite loci in deep-sea tubeworms of the genus <i>Escarpia</i> (Polychaeta, Siboglinidae). <i>Conservation Genetics Resources</i> , 2013, 5, 479-482.	0.8	4
53	Evolutionary Rearrangement of the Amylase Genomic Regions Between <i>Drosophila melanogaster</i> and <i>Drosophila pseudoobscura</i> . , 2003, 94, 464-471.		2
54	Streaming Breakpoint Graph Analytics for Accelerating and Parallelizing the Computation of DCJ Median of Three Genomes. <i>Procedia Computer Science</i> , 2013, 18, 561-570.	2.0	2

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55	Rec-DCM-Eigen: Reconstructing a Less Parsimonious but More Accurate Tree in Shorter Time. PLoS ONE, 2011, 6, e22483.	2.5	2
56	Investigation of population structure in Gulf of Mexico <i>Seepiophila jonesi</i> (Polychaeta). Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	2.0	2
57	A Lin-Kernighan Heuristic for the DCJ Median Problem of Genomes with Unequal Contents. Lecture Notes in Computer Science, 2014, , 227-238.	1.3	0
58	Molecular Population Genetics of a Phenotypically Monomorphic Protein in <i>Drosophila</i> . The IMA Volumes in Mathematics and Its Applications, 1997, , 133-148.	0.5	0