

Peter Andolfatto

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

9,960
citations

34076

52
h-index

46771

89
g-index

105
all docs

105
docs citations

105
times ranked

8907
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive evolution of non-coding DNA in <i>Drosophila</i> . <i>Nature</i> , 2005, 437, 1149-1152.	13.7	576
2	Revisiting an Old Riddle: What Determines Genetic Diversity Levels within Species?. <i>PLoS Biology</i> , 2012, 10, e1001388.	2.6	485
3	Multiplexed shotgun genotyping for rapid and efficient genetic mapping. <i>Genome Research</i> , 2011, 21, 610-617.	2.4	390
4	The <i>Capsella rubella</i> genome and the genomic consequences of rapid mating system evolution. <i>Nature Genetics</i> , 2013, 45, 831-835.	9.4	374
5	The Population Genetics of the Origin and Divergence of the <i>Drosophila simulans</i> Complex Species. <i>Genetics</i> , 2000, 156, 1913-1931.	1.2	356
6	Pervasive Natural Selection in the <i>Drosophila</i> Genome?. <i>PLoS Genetics</i> , 2009, 5, e1000495.	1.5	329
7	Natural selection interacts with recombination to shape the evolution of hybrid genomes. <i>Science</i> , 2018, 360, 656-660.	6.0	314
8	HOW COMMON IS HOMOPLOID HYBRID SPECIATION?. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 1553-1560.	1.1	273
9	The Evolution of Gene Regulation Underlies a Morphological Difference between Two <i>Drosophila</i> Sister Species. <i>Cell</i> , 2008, 132, 783-793.	13.5	269
10	Parallel Molecular Evolution in an Herbivore Community. <i>Science</i> , 2012, 337, 1634-1637.	6.0	252
11	Multilocus patterns of nucleotide variability and the demographic and selection history of <i>Drosophila melanogaster</i> populations. <i>Genome Research</i> , 2005, 15, 790-799.	2.4	247
12	Inference of Population Structure Under a Dirichlet Process Model. <i>Genetics</i> , 2007, 175, 1787-1802.	1.2	246
13	Contrasting Patterns of X-Linked and Autosomal Nucleotide Variation in <i>Drosophila melanogaster</i> and <i>Drosophila simulans</i> . <i>Molecular Biology and Evolution</i> , 2001, 18, 279-290.	3.5	242
14	Approximate Bayesian Inference Reveals Evidence for a Recent, Severe Bottleneck in a Netherlands Population of <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2006, 172, 1607-1619.	1.2	239
15	Genome sequencing reveals complex speciation in the <i>Drosophila simulans</i> clade. <i>Genome Research</i> , 2012, 22, 1499-1511.	2.4	220
16	Hitchhiking effects of recurrent beneficial amino acid substitutions in the <i>Drosophila melanogaster</i> genome. <i>Genome Research</i> , 2007, 17, 1755-1762.	2.4	188
17	EXTENSIVE INTROGRESSION OF MITOCHONDRIAL DNA RELATIVE TO NUCLEAR GENES IN THE <i>DROSOPHILA</i> <i>YAKUBA</i> SPECIES GROUP. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 292-302.	1.1	187
18	Testing Models of Selection and Demography in <i>Drosophila simulans</i> . <i>Genetics</i> , 2002, 162, 203-216.	1.2	181

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19	PHYLOGENOMICS REVEALS EXTENSIVE RETICULATE EVOLUTION IN <i>XIPHOPHORUS</i> FISHES. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 2166-2179.	1.1	176
20	Adaptive hitchhiking effects on genome variability. <i>Current Opinion in Genetics and Development</i> , 2001, 11, 635-641.	1.5	168
21	Population genetics of the coral <i>Acropora millepora</i> : Toward genomic prediction of bleaching. <i>Science</i> , 2020, 369, .	6.0	167
22	A Genome-Wide Departure From the Standard Neutral Model in Natural Populations of <i>Drosophila</i> . <i>Genetics</i> , 2000, 156, 257-268.	1.2	163
23	Patterns of intron sequence evolution in <i>Drosophila</i> are dependent upon length and GC content. <i>Genome Biology</i> , 2005, 6, R67.	13.9	158
24	A second-generation assembly of the <i>Drosophila simulans</i> genome provides new insights into patterns of lineage-specific divergence. <i>Genome Research</i> , 2013, 23, 89-98.	2.4	157
25	Unusual Haplotype Structure at the Proximal Breakpoint of In(2L)t in a Natural Population of <i>Drosophila melanogaster</i> . <i>Genetics</i> , 1999, 153, 1297-1311.	1.2	151
26	A Genomic Map of the Effects of Linked Selection in <i>Drosophila</i> . <i>PLoS Genetics</i> , 2016, 12, e1006130.	1.5	145
27	Inversion polymorphisms and nucleotide variability in <i>Drosophila</i> . <i>Genetical Research</i> , 2001, 77, 1-8.	0.3	136
28	Progress and prospects in mapping recent selection in the genome. <i>Heredity</i> , 2007, 98, 340-348.	1.2	121
29	The Effect of Gene Conversion on Intralocus Associations. <i>Genetics</i> , 1998, 148, 1397-1399.	1.2	115
30	High-resolution mapping reveals hundreds of genetic incompatibilities in hybridizing fish species. <i>ELife</i> , 2014, 3, .	2.8	115
31	Regions of Lower Crossing Over Harbor More Rare Variants in African Populations of <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2001, 158, 657-665.	1.2	111
32	On the Utility of Short Intron Sequences as a Reference for the Detection of Positive and Negative Selection in <i>Drosophila</i> . <i>Molecular Biology and Evolution</i> , 2010, 27, 1226-1234.	3.5	105
33	Patterns of Evolutionary Constraints in Intronic and Intergenic DNA of <i>Drosophila</i> . <i>Genome Research</i> , 2004, 14, 273-279.	2.4	99
34	The Impact of Natural Selection on the Genome: Emerging Patterns in <i>Drosophila</i> and <i>Arabidopsis</i> . <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2008, 39, 193-213.	3.8	97
35	Structurama: Bayesian Inference of Population Structure. <i>Evolutionary Bioinformatics</i> , 2011, 7, EBO.S6761.	0.6	95
36	An Approximate Bayesian Estimator Suggests Strong, Recurrent Selective Sweeps in <i>Drosophila</i> . <i>PLoS Genetics</i> , 2008, 4, e1000198.	1.5	94

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37	Reproductive Isolation of Hybrid Populations Driven by Genetic Incompatibilities. <i>PLoS Genetics</i> , 2015, 11, e1005041.	1.5	93
38	Positive and Negative Selection on Noncoding DNA in <i>Drosophila simulans</i> . <i>Molecular Biology and Evolution</i> , 2008, 25, 1825-1834.	3.5	91
39	Ancient hybridization and genomic stabilization in a swordtail fish. <i>Molecular Ecology</i> , 2016, 25, 2661-2679.	2.0	91
40	Landscape of Standing Variation for Tandem Duplications in <i>Drosophila yakuba</i> and <i>Drosophila simulans</i> . <i>Molecular Biology and Evolution</i> , 2014, 31, 1750-1766.	3.5	89
41	Natural hybridization reveals incompatible alleles that cause melanoma in swordtail fish. <i>Science</i> , 2020, 368, 731-736.	6.0	86
42	GENETIC ARCHITECTURE AND ADAPTIVE SIGNIFICANCE OF THE SELFING SYNDROME IN <i>CAPSELLA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 1360-1374.	1.1	79
43	A Population Genetics-Phylogenetics Approach to Inferring Natural Selection in Coding Sequences. <i>PLoS Genetics</i> , 2011, 7, e1002395.	1.5	78
44	Assortative mating and persistent reproductive isolation in hybrids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10936-10941.	3.3	77
45	Selection, Recombination and Demographic History in <i>Drosophila miranda</i> . <i>Genetics</i> , 2006, 174, 2045-2059.	1.2	73
46	The within-host dynamics of infection in transgenerationally primed flour beetles. <i>Molecular Ecology</i> , 2017, 26, 3794-3807.	2.0	70
47	Extensive introgression of mitochondrial DNA relative to nuclear genes in the <i>Drosophila yakuba</i> species group. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 292-302.	1.1	69
48	X chromosomes and autosomes evolve at similar rates in <i>Drosophila</i> : No evidence for faster-X protein evolution. <i>Genome Research</i> , 2006, 16, 498-504.	2.4	67
49	Dichotomy of Dosage Compensation along the Neo Z Chromosome of the Monarch Butterfly. <i>Current Biology</i> , 2019, 29, 4071-4077.e3.	1.8	66
50	DISCORDANT DIVERGENCE TIMES AMONG Z-CHROMOSOME REGIONS BETWEEN TWO ECOLOGICALLY DISTINCT SWALLOWTAIL BUTTERFLY SPECIES. <i>Evolution; International Journal of Organic Evolution</i> , 2007, 61, 912-927.	1.1	65
51	Effective Population Size and the Efficacy of Selection on the X Chromosomes of Two Closely Related <i>Drosophila</i> Species. <i>Genome Biology and Evolution</i> , 2011, 3, 114-128.	1.1	59
52	Recombination and the Frequency Spectrum in <i>Drosophila melanogaster</i> and <i>Drosophila simulans</i> . <i>Molecular Biology and Evolution</i> , 2001, 18, 291-298.	3.5	55
53	Linkage Disequilibrium Patterns Across a Recombination Gradient in African <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2003, 165, 1289-1305.	1.2	55
54	Fatty-acid-binding protein in locust flight muscle. Developmental changes of expression, concentration and intracellular distribution. <i>FEBS Journal</i> , 1992, 210, 1045-1051.	0.2	54

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55	Correlated Evolution of Nearby Residues in Drosophilid Proteins. <i>PLoS Genetics</i> , 2011, 7, e1001315.	1.5	48
56	Sexual Dimorphism and Retinal Mosaic Diversification following the Evolution of a Violet Receptor in Butterflies. <i>Molecular Biology and Evolution</i> , 2017, 34, 2271-2284.	3.5	46
57	Molecular Variation at the In(2L)t Proximal Breakpoint Site in Natural Populations of <i>Drosophila melanogaster</i> and <i>D. simulans</i> . <i>Genetics</i> , 2000, 154, 1681-1691.	1.2	44
58	What do we mean when we talk about hybrid speciation?. <i>Heredity</i> , 2018, 120, 379-382.	1.2	43
59	Controlling Type-I Error of the McDonald-Kreitman Test in Genomewide Scans for Selection on Noncoding DNA. <i>Genetics</i> , 2008, 180, 1767-1771.	1.2	41
60	Population differences in olfaction accompany host shift in <i>Drosophila mojavensis</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161562.	1.2	40
61	The evolution of cardenolide-resistant forms of Na ⁺ ,K ⁺ -ATPase in Danainae butterflies. <i>Molecular Ecology</i> , 2012, 21, 340-349.	2.0	38
62	A novel family of secreted insect proteins linked to plant gall development. <i>Current Biology</i> , 2021, 31, 1836-1849.e12.	1.8	37
63	Evolution of Multiple Additive Loci Caused Divergence between <i>Drosophila yakuba</i> and <i>D. santomea</i> in Wing Rowing during Male Courtship. <i>PLoS ONE</i> , 2012, 7, e43888.	1.1	33
64	Changes throughout a Genetic Network Mask the Contribution of Hox Gene Evolution. <i>Current Biology</i> , 2019, 29, 2157-2166.e6.	1.8	33
65	Predictability in the evolution of Orthopteran cardenolide insensitivity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180246.	1.8	33
66	Cloning and sequence of the gene encoding the muscle fatty acid binding protein from the desert locust, <i>Schistocerca gregaria</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2001, 31, 553-562.	1.2	32
67	Evolution of the tan Locus Contributed to Pigment Loss in <i>Drosophila santomea</i> : A Response to Matute et al.. <i>Cell</i> , 2009, 139, 1189-1196.	13.5	32
68	Methods to Detect Selection on Noncoding DNA. <i>Methods in Molecular Biology</i> , 2012, 856, 141-159.	0.4	29
69	NO ASSOCIATION BETWEEN MITOCHONDRIAL DNA HAPLOTYPES AND A FEMALE-LIMITED MIMICRY PHENOTYPE IN <i>PAPILIO GLAUCUS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 305-316.	1.1	28
70	Adaptive substitutions underlying cardiac glycoside insensitivity in insects exhibit epistasis in vivo. <i>ELife</i> , 2019, 8, .	2.8	28
71	Transformed hairy roots of <i>Mesembryantum crystallinum</i> : gene expression patterns upon salt stress. <i>Physiologia Plantarum</i> , 1994, 90, 708-714.	2.6	25
72	AN EVALUATION OF THE HYBRID SPECIATION HYPOTHESIS FOR <i>XIPHOPHORUS CLEMENCIAE</i> BASED ON WHOLE GENOME SEQUENCES. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 1155-1168.	1.1	25

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73	Tandem Duplications and the Limits of Natural Selection in <i>Drosophila yakuba</i> and <i>Drosophila simulans</i> . PLoS ONE, 2015, 10, e0132184.	1.1	25
74	The Genetic Architecture of Variation in the Sexually Selected Sword Ornament and Its Evolution in Hybrid Populations. Current Biology, 2021, 31, 923-935.e11.	1.8	21
75	Developmental changes of FABP concentration, expression, and intracellular distribution in locust flight muscle. Molecular and Cellular Biochemistry, 1993, 123, 153-158.	1.4	20
76	Concerted evolution reveals co-adapted amino acid substitutions in Na ⁺ K ⁺ -ATPase of frogs that prey on toxic toads. Current Biology, 2021, 31, 2530-2538.e10.	1.8	20
77	Revised Annotations, Sex-Biased Expression, and Lineage-Specific Genes in the <i>Drosophila melanogaster</i> Group. G3: Genes, Genomes, Genetics, 2014, 4, 2345-2351.	0.8	17
78	Genome-wide QTL mapping of saltwater tolerance in sibling species of Anopheles (malaria vector) mosquitoes. Heredity, 2015, 115, 471-479.	1.2	17
79	Phylogenetic incongruence and the evolutionary origins of cardenolide-resistant forms of Na ⁺ K ⁺ -ATPase in <i>Danaus</i> butterflies. Evolution; International Journal of Organic Evolution, 2016, 70, 1913-1921.	1.1	16
80	Different Evolutionary Strategies To Conserve Chromatin Boundary Function in the Bithorax Complex. Genetics, 2017, 205, 589-603.	1.2	14
81	NO ASSOCIATION BETWEEN MITOCHONDRIAL DNA HAPLOTYPES AND A FEMALE-LIMITED MIMICRY PHENOTYPE IN PAPILIO GLAUCUS. Evolution; International Journal of Organic Evolution, 2003, 57, 305.	1.1	13
82	Genetics of Intraspecies Variation in Avoidance Behavior Induced by a Thermal Stimulus in <i>Caenorhabditis elegans</i> . Genetics, 2015, 200, 1327-1339.	1.2	9
83	simMSG: an experimental design tool for high-throughput genotyping of hybrids. Molecular Ecology Resources, 2016, 16, 183-192.	2.2	8
84	How the manakin got its crown: A novel trait that is unlikely to cause speciation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4144-E4145.	3.3	8
85	Transformed hairy roots of <i>Mesembryanthemum crystallinum</i> : gene expression patterns upon salt stress. Physiologia Plantarum, 1994, 90, 708-714.	2.6	7
86	Genomic signatures of spatially divergent selection at clownfish range margins. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210407.	1.2	6
87	EXTENSIVE INTROGRESSION OF MITOCHONDRIAL DNA RELATIVE TO NUCLEAR GENES IN THE DROSOPHILA YAKUBA SPECIES GROUP. Evolution; International Journal of Organic Evolution, 2006, 60, 292.	1.1	4
88	Allele-specific knockouts reveal a role for <i>aponticlike</i> in the evolutionary loss of larval melanin pigmentation in the domesticated silkworm, <i>Bombyx mori</i> . Insect Molecular Biology, 0, , .	1.0	4
89	WHotLAMP: A simple, inexpensive, and sensitive molecular test for the detection of SARS-CoV-2 in saliva. PLoS ONE, 2021, 16, e0257464.	1.1	2
90	Developmental changes of FABP concentration, expression, and intracellular distribution in locust flight muscle. , 1993, , 153-158.		0