Doris Bachtrog

List of Publications by Year
in descending order

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92 papers	8,637 citations	53789 45 h-index	53222 85 g-index
113 all docs	113 docs citations	113 times ranked	7002 citing authors

#	Article	IF	Citations
1	Sex Determination: Why So Many Ways of Doing It?. PLoS Biology, 2014, 12, e1001899.	5.6	916
2	Y-chromosome evolution: emerging insights into processes of Y-chromosome degeneration. Nature Reviews Genetics, 2013, 14, 113-124.	16.3	693
3	Horizontal Gene Transfer from Diverse Bacteria to an Insect Genome Enables a Tripartite Nested Mealybug Symbiosis. Cell, 2013, 153, 1567-1578.	28.9	373
4	Are all sex chromosomes created equal?. Trends in Genetics, 2011, 27, 350-357.	6.7	307
5	Numerous Transitions of Sex Chromosomes in Diptera. PLoS Biology, 2015, 13, e1002078.	5.6	279
6	Comparative Sex Chromosome Genomics in Snakes: Differentiation, Evolutionary Strata, and Lack of Global Dosage Compensation. PLoS Biology, 2013, 11, e1001643.	5.6	270
7	Complex evolutionary trajectories of sex chromosomes across bird taxa. Science, 2014, 346, 1246338.	12.6	258
8	A dynamic view of sex chromosome evolution. Current Opinion in Genetics and Development, 2006, 16, 578-585.	3.3	240
9	Reduced adaptation of a non-recombining neo-Y chromosome. Nature, 2002, 416, 323-326.	27.8	208
10	Reversal of an ancient sex chromosome to an autosome in Drosophila. Nature, 2013, 499, 332-335.	27.8	201
11	EXTENSIVE INTROGRESSION OF MITOCHONDRIAL DNA RELATIVE TO NUCLEAR GENES IN THE DROSOPHILA YAKUBA SPECIES GROUP. Evolution; International Journal of Organic Evolution, 2006, 60, 292-302.	2.3	187
12	The Temporal Dynamics of Processes Underlying Y Chromosome Degeneration. Genetics, 2008, 179, 1513-1525.	2.9	182
13	Sex-Specific Adaptation Drives Early Sex Chromosome Evolution in Drosophila. Science, 2012, 337, 341-345.	12.6	181
14	Neofunctionalization of young duplicate genes in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17409-17414.	7.1	172
15	Sex-Biased Transcriptome Evolution in Drosophila. Genome Biology and Evolution, 2012, 4, 1189-1200.	2.5	159
16	Dosage Compensation via Transposable Element Mediated Rewiring of a Regulatory Network. Science, 2013, 342, 846-850.	12.6	153
17	Genomic degradation of a young Y chromosome in Drosophila miranda. Genome Biology, 2008, 9, R30.	9.6	151
18	Sex-biased gene expression at homomorphic sex chromosomes in emus and its implication for sex chromosome evolution. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6453-6458.	7.1	146

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19	Sex Determination, Sex Chromosomes, and Karyotype Evolution in Insects. Journal of Heredity, 2017, 108, 78-93.	2.4	146
20	Evolution of Sex Chromosomes in Insects. Annual Review of Genetics, 2010, 44, 91-112.	7.6	127
21	Evidence that positive selection drives Y-chromosome degeneration in Drosophila miranda. Nature Genetics, 2004, 36, 518-522.	21.4	114
22	Adaptation shapes patterns of genome evolution on sexual and asexual chromosomes in Drosophila. Nature Genetics, 2003, 34, 215-219.	21.4	104
23	Progress and prospects toward our understanding of the evolution of dosage compensation. Chromosome Research, 2009, 17, 585-602.	2.2	104
24	Sex chromosome evolution: Molecular aspects of Y-chromosome degeneration in Drosophila. Genome Research, 2005, 15, 1393-1401.	5.5	103
25	Positive and Negative Selection on Noncoding DNA in Drosophila simulans. Molecular Biology and Evolution, 2008, 25, 1825-1834.	8.9	91
26	De novo assembly of a young Drosophila Y chromosome using single-molecule sequencing and chromatin conformation capture. PLoS Biology, 2018, 16, e2006348.	5.6	86
27	Microsatellite Variability Differs Between Dinucleotide Repeat Motifsâ€"Evidence from Drosophila melanogaster. Molecular Biology and Evolution, 2000, 17, 1277-1285.	8.9	83
28	The Epigenome of Evolving Drosophila Neo-Sex Chromosomes: Dosage Compensation and Heterochromatin Formation. PLoS Biology, 2013, 11, e1001711.	5.6	82
29	Accumulation of Spock and Worf, Two Novel Non-LTR Retrotransposons, on the Neo-Y Chromosome of Drosophila miranda. Molecular Biology and Evolution, 2003, 20, 173-181.	8.9	77
30	ADAPTIVE EVOLUTION OF ASEXUAL POPULATIONS UNDER MULLER'S RATCHET. Evolution; International Journal of Organic Evolution, 2004, 58, 1403-1413.	2.3	77
31	Lack of Global Dosage Compensation in Schistosoma mansoni, a Female-Heterogametic Parasite. Genome Biology and Evolution, 2011, 3, 230-235.	2.5	76
32	Dosage Compensation and Demasculinization of X Chromosomes in Drosophila. Current Biology, 2010, 20, 1476-1481.	3.9	75
33	Selection, Recombination and Demographic History in Drosophila miranda. Genetics, 2006, 174, 2045-2059.	2.9	73
34	Expression Profile of a Degenerating Neo-Y Chromosome in Drosophila. Current Biology, 2006, 16, 1694-1699.	3.9	72
35	Dynamic turnover of centromeres drives karyotype evolution in Drosophila. ELife, 2019, 8, .	6.0	71
36	Origins and evolution of extreme life span in Pacific Ocean rockfishes. Science, 2021, 374, 842-847.	12.6	71

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37	Extensive introgression of mitochondrial DNA relative to nuclear genes in the Drosophila yakuba species group. Evolution; International Journal of Organic Evolution, 2006, 60, 292-302.	2.3	69
38	X chromosomes and autosomes evolve at similar rates in Drosophila: No evidence for faster-X protein evolution. Genome Research, 2006, 16, 498-504.	5.5	67
39	Chromosome-Wide Gene Silencing Initiates Y Degeneration in Drosophila. Current Biology, 2012, 22, 522-525.	3.9	67
40	Accelerated Adaptive Evolution on a Newly Formed X Chromosome. PLoS Biology, 2009, 7, e1000082.	5.6	66
41	Deciphering neo-sex and B chromosome evolution by the draft genome of Drosophila albomicans. BMC Genomics, 2012, 13, 109.	2.8	64
42	Nonrandom Gene Loss from the Drosophila miranda Neo-Y Chromosome. Genome Biology and Evolution, 2011, 3, 1329-1337.	2.5	62
43	Gene content evolution on the X chromosome. Current Opinion in Genetics and Development, 2008, 18, 493-498.	3.3	60
44	The Y chromosome may contribute to sex-specific ageing in Drosophila. Nature Ecology and Evolution, 2020, 4, 853-862.	7.8	60
45	Effective Population Size and the Efficacy of Selection on the X Chromosomes of Two Closely Related Drosophila Species. Genome Biology and Evolution, 2011, 3, 114-128.	2.5	59
46	Conservation and de novo acquisition of dosage compensation on newly evolved sex chromosomes in Drosophila. Genes and Development, 2013, 27, 853-858.	5.9	59
47	Convergent evolution of Y chromosome gene content in flies. Nature Communications, 2017, 8, 785.	12.8	59
48	Reduced levels of microsatellite variability on the neo-Y chromosome of Drosophila miranda. Current Biology, 2000, 10, 1025-1031.	3.9	55
49	Massive gene amplification on a recently formed Drosophila Y chromosome. Nature Ecology and Evolution, 2019, 3, 1587-1597.	7.8	55
50	Alternative Splicing within and between Drosophila Species, Sexes, Tissues, and Developmental Stages. PLoS Genetics, 2016, 12, e1006464.	3.5	53
51	Characterizing the Influence of Effective Population Size on the Rate of Adaptation: Gillespieâ€™s Darwin Domain. Genome Biology and Evolution, 2011, 3, 687-701.	2.5	52
52	Strepsiptera, Phylogenomics and the Long Branch Attraction Problem. PLoS ONE, 2014, 9, e107709.	2.5	51
53	Rapid divergence and diversification of mammalian duplicate gene functions. BMC Evolutionary Biology, 2015, 15, 138.	3.2	51
54	The Drosophila Y Chromosome Affects Heterochromatin Integrity Genome-Wide. Molecular Biology and Evolution, 2020, 37, 2808-2824.	8.9	49

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55	Correlated Evolution of Nearby Residues in Drosophilid Proteins. PLoS Genetics, 2011, 7, e1001315.	3.5	48
56	Similar rates of protein adaptation in Drosophila miranda and D. melanogaster, two species with different current effective population sizes. BMC Evolutionary Biology, 2008, 8, 334.	3.2	45
57	Evidence for Male-Driven Evolution in Drosophila. Molecular Biology and Evolution, 2008, 25, 617-619.	8.9	43
58	Protein Evolution and Codon Usage Bias on the Neo-Sex Chromosomes of Drosophila miranda. Genetics, 2003, 165, 1221-1232.	2.9	43
59	Recurrent gene co-amplification on Drosophila X and Y chromosomes. PLoS Genetics, 2019, 15, e1008251.	3.5	41
60	The chromatin landscape of Drosophila: comparisons between species, sexes, and chromosomes. Genome Research, 2014, 24, 1125-1137.	5.5	40
61	Ancestral Chromatin Configuration Constrains Chromatin Evolution on Differentiating Sex Chromosomes in Drosophila. PLoS Genetics, 2015, 11, e1005331.	3.5	36
62	The Y Chromosome as a Battleground for Intragenomic Conflict. Trends in Genetics, 2020, 36, 510-522.	6.7	33
63	Reduced Selection for Codon Usage Bias in Drosophila miranda. Journal of Molecular Evolution, 2007, 64, 586-590.	1.8	32
64	Non-allelic gene conversion enables rapid evolutionary change at multiple regulatory sites encoded by transposable elements. ELife, 2015, 4, .	6.0	32
65	Ancestral male recombination in Drosophila albomicans produced geographically restricted neo-Y chromosome haplotypes varying in age and onset of decay. PLoS Genetics, 2019, 15, e1008502.	3.5	30
66	Partial Dosage Compensation in Strepsiptera, a Sister Group of Beetles. Genome Biology and Evolution, 2015, 7, 591-600.	2.5	29
67	A Survey of Chromosomal and Nucleotide Sequence Variation in Drosophila miranda. Genetics, 2003, 164, 1369-1381.	2.9	29
68	The speciation history of the Drosophila nasuta complex. Genetical Research, 2006, 88, 13-26.	0.9	26
69	Positive Selection at the Binding Sites of the Male-Specific Lethal Complex Involved in Dosage Compensation in Drosophila. Genetics, 2008, 180, 1123-1129.	2.9	26
70	Contingency in the convergent evolution of a regulatory network: Dosage compensation in Drosophila. PLoS Biology, 2019, 17, e3000094.	5.6	26
71	Patterns of Genomic Differentiation in the Drosophila nasuta Species Complex. Molecular Biology and Evolution, 2020, 37, 208-220.	8.9	26
72	Epigenetic conflict on a degenerating Y chromosome increases mutational burden in Drosophila males. Nature Communications, 2020, 11, 5537.	12.8	26

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73	Sex-Specific Embryonic Gene Expression in Species with Newly Evolved Sex Chromosomes. PLoS Genetics, 2014, 10, e1004159.	3.5	25
74	Toxic Y chromosome: Increased repeat expression and age-associated heterochromatin loss in male Drosophila with a young Y chromosome. PLoS Genetics, 2021, 17, e1009438.	3.5	24
75	Establishment of H3K9me3-dependent heterochromatin during embryogenesis in Drosophila miranda. ELife, 2021, 10, .	6.0	22
76	Characterizing Recurrent Positive Selection at Fast-Evolving Genes in Drosophila miranda and Drosophila pseudoobscura. Genome Biology and Evolution, 2010, 2, 371-378.	2.5	17
77	Patterns of Genome-Wide Diversity and Population Structure in the Drosophila athabasca Species Complex. Molecular Biology and Evolution, 2017, 34, 1912-1923.	8.9	17
78	Epigenetics drive the evolution of sex chromosomes in animals and plants. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200124.	4.0	15
79	Dynamics and Impacts of Transposable Element Proliferation in the Drosophila nasuta Species Group Radiation. Molecular Biology and Evolution, 2022, 39, .	8.9	13
80	Plant Sex Chromosomes: A Non-Degenerated Y?. Current Biology, 2011, 21, R685-R688.	3.9	12
81	Chromosome-Level Assembly of Drosophila bifasciata Reveals Important Karyotypic Transition of the X Chromosome. G3: Genes, Genomes, Genetics, 2020, 10, 891-897.	1.8	12
82	Signs of Genomic Battles in Mouse Sex Chromosomes. Cell, 2014, 159, 716-718.	28.9	11
83	De novo transcriptome assembly reveals sex-specific selection acting on evolving neo-sex chromosomes in Drosophila miranda. BMC Genomics, 2014, 15, 241.	2.8	11
84	Complex Evolutionary History of the Y Chromosome in Flies of the Drosophila obscura Species Group. Genome Biology and Evolution, 2020, 12, 494-505.	2.5	9
85	Transposable element accumulation drives size differences among polymorphic Y Chromosomes in Drosophila. Genome Research, 2022, 32, 1074-1088.	5.5	8
86	Neo-sex chromosome evolution shapes sex-dependent asymmetrical introgression barrier. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119382119.	7.1	7
87	On the Genomic Location of theexuperantia1Gene inDrosophila miranda: The Limits ofin SituHybridization Experiments. Genetics, 2003, 164, 1237-1240.	2.9	6
88	The Theory and Applications of Measuring Broad-Range and Chromosome-Wide Recombination Rate from Allele Frequency Decay around a Selected Locus. Molecular Biology and Evolution, 2020, 37, 3654-3671.	8.9	2
89	Title is missing!. , 2019, 15, e1008502.		0
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