

Doris Bachtrog

List of Publications by Citations

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102
papers

6,182
citations

42
h-index

78
g-index

113
ext. papers

7,582
ext. citations

11
avg, IF

6.63
L-index

#	Paper	IF	Citations
102	Sex determination: why so many ways of doing it?. <i>PLoS Biology</i> , 2014 , 12, e1001899	9.7	606
101	Y-chromosome evolution: emerging insights into processes of Y-chromosome degeneration. <i>Nature Reviews Genetics</i> , 2013 , 14, 113-24	30.1	491
100	Horizontal gene transfer from diverse bacteria to an insect genome enables a tripartite nested mealybug symbiosis. <i>Cell</i> , 2013 , 153, 1567-78	56.2	285
99	Are all sex chromosomes created equal?. <i>Trends in Genetics</i> , 2011 , 27, 350-7	8.5	238
98	Comparative sex chromosome genomics in snakes: differentiation, evolutionary strata, and lack of global dosage compensation. <i>PLoS Biology</i> , 2013 , 11, e1001643	9.7	212
97	Numerous transitions of sex chromosomes in Diptera. <i>PLoS Biology</i> , 2015 , 13, e1002078	9.7	186
96	Complex evolutionary trajectories of sex chromosomes across bird taxa. <i>Science</i> , 2014 , 346, 1246338	33.3	184
95	A dynamic view of sex chromosome evolution. <i>Current Opinion in Genetics and Development</i> , 2006 , 16, 578-85	4.9	174
94	Reduced adaptation of a non-recombining neo-Y chromosome. <i>Nature</i> , 2002 , 416, 323-6	50.4	167
93	EXTENSIVE INTROGRESSION OF MITOCHONDRIAL DNA RELATIVE TO NUCLEAR GENES IN THE DROSOPHILA YAKUBA SPECIES GROUP. <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 292-302	3.8	166
92	Reversal of an ancient sex chromosome to an autosome in Drosophila. <i>Nature</i> , 2013 , 499, 332-5	50.4	137
91	Sex-specific adaptation drives early sex chromosome evolution in Drosophila. <i>Science</i> , 2012 , 337, 341-5	33.3	135
90	The temporal dynamics of processes underlying Y chromosome degeneration. <i>Genetics</i> , 2008 , 179, 1513-25	7.5	134
89	Sex-biased transcriptome evolution in Drosophila. <i>Genome Biology and Evolution</i> , 2012 , 4, 1189-200	3.9	125
88	Sex-biased gene expression at homomorphic sex chromosomes in emus and its implication for sex chromosome evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6453-8	11.5	113
87	Dosage compensation via transposable element mediated rewiring of a regulatory network. <i>Science</i> , 2013 , 342, 846-50	33.3	112
86	Genomic degradation of a young Y chromosome in Drosophila miranda. <i>Genome Biology</i> , 2008 , 9, R30	18.3	111

85	Neofunctionalization of young duplicate genes in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 17409-14	11.5	110
84	Evolution of sex chromosomes in insects. <i>Annual Review of Genetics</i> , 2010 , 44, 91-112	14.5	104
83	Evidence that positive selection drives Y-chromosome degeneration in <i>Drosophila miranda</i> . <i>Nature Genetics</i> , 2004 , 36, 518-22	36.3	93
82	Sex Determination, Sex Chromosomes, and Karyotype Evolution in Insects. <i>Journal of Heredity</i> , 2017 , 108, 78-93	2.4	84
81	Sex chromosome evolution: molecular aspects of Y-chromosome degeneration in <i>Drosophila</i> . <i>Genome Research</i> , 2005 , 15, 1393-401	9.7	82
80	Adaptation shapes patterns of genome evolution on sexual and asexual chromosomes in <i>Drosophila</i> . <i>Nature Genetics</i> , 2003 , 34, 215-9	36.3	80
79	Positive and negative selection on noncoding DNA in <i>Drosophila simulans</i> . <i>Molecular Biology and Evolution</i> , 2008 , 25, 1825-34	8.3	79
78	Progress and prospects toward our understanding of the evolution of dosage compensation. <i>Chromosome Research</i> , 2009 , 17, 585-602	4.4	74
77	Microsatellite variability differs between dinucleotide repeat motifs-evidence from <i>Drosophila melanogaster</i> . <i>Molecular Biology and Evolution</i> , 2000 , 17, 1277-85	8.3	73
76	Adaptive evolution of asexual populations under Muller's ratchet. <i>Evolution; International Journal of Organic Evolution</i> , 2004 , 58, 1403-13	3.8	67
75	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	3.8	67
74	Selection, recombination and demographic history in <i>Drosophila miranda</i> . <i>Genetics</i> , 2006 , 174, 2045-59	4	65
73	Accumulation of Spock and Worf, two novel non-LTR retrotransposons, on the neo-Y chromosome of <i>Drosophila miranda</i> . <i>Molecular Biology and Evolution</i> , 2003 , 20, 173-81	8.3	64
72	Dosage compensation and demasculinization of X chromosomes in <i>Drosophila</i> . <i>Current Biology</i> , 2010 , 20, 1476-81	6.3	63
71	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	9.7	62
70	The epigenome of evolving <i>Drosophila</i> neo-sex chromosomes: dosage compensation and heterochromatin formation. <i>PLoS Biology</i> , 2013 , 11, e1001711	9.7	60
69	Deciphering neo-sex and B chromosome evolution by the draft genome of <i>Drosophila albomicans</i> . <i>BMC Genomics</i> , 2012 , 13, 109	4.5	59
68	Lack of global dosage compensation in <i>Schistosoma mansoni</i> , a female-heterogametic parasite. <i>Genome Biology and Evolution</i> , 2011 , 3, 230-5	3.9	59

67	Expression profile of a degenerating neo-y chromosome in <i>Drosophila</i> . <i>Current Biology</i> , 2006 , 16, 1694-96.3		58
66	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, 114-28	3.9	53
65	De novo assembly of a young <i>Drosophila</i> Y chromosome using single-molecule sequencing and chromatin conformation capture. <i>PLoS Biology</i> , 2018 , 16, e2006348	9.7	48
64	Conservation and de novo acquisition of dosage compensation on newly evolved sex chromosomes in <i>Drosophila</i> . <i>Genes and Development</i> , 2013 , 27, 853-8	12.6	47
63	Chromosome-wide gene silencing initiates Y degeneration in <i>Drosophila</i> . <i>Current Biology</i> , 2012 , 22, 522-5.3		45
62	Similar rates of protein adaptation in <i>Drosophila miranda</i> and <i>D. melanogaster</i> , two species with different current effective population sizes. <i>BMC Evolutionary Biology</i> , 2008 , 8, 334	3	44
61	Accelerated adaptive evolution on a newly formed X chromosome. <i>PLoS Biology</i> , 2009 , 7, e82	9.7	42
60	Nonrandom gene loss from the <i>Drosophila miranda</i> neo-Y chromosome. <i>Genome Biology and Evolution</i> , 2011 , 3, 1329-37	3.9	41
59	Characterizing the influence of effective population size on the rate of adaptation: GillespieX Darwin domain. <i>Genome Biology and Evolution</i> , 2011 , 3, 687-701	3.9	40
58	Gene content evolution on the X chromosome. <i>Current Opinion in Genetics and Development</i> , 2008 , 18, 493-8	4.9	39
57	Protein evolution and codon usage bias on the neo-sex chromosomes of <i>Drosophila miranda</i> . <i>Genetics</i> , 2003 , 165, 1221-32	4	39
56	Strepsiptera, phylogenomics and the long branch attraction problem. <i>PLoS ONE</i> , 2014 , 9, e107709	3.7	38
55	Evidence for male-driven evolution in <i>Drosophila</i> . <i>Molecular Biology and Evolution</i> , 2008 , 25, 617-9	8.3	38
54	Convergent evolution of Y chromosome gene content in flies. <i>Nature Communications</i> , 2017 , 8, 785	17.4	35
53	Correlated evolution of nearby residues in <i>Drosophilid</i> proteins. <i>PLoS Genetics</i> , 2011 , 7, e1001315	6	35
52	Dynamic turnover of centromeres drives karyotype evolution in <i>Drosophila</i> . <i>ELife</i> , 2019 , 8,	8.9	35
51	Reduced levels of microsatellite variability on the neo-Y chromosome of <i>Drosophila miranda</i> . <i>Current Biology</i> , 2000 , 10, 1025-31	6.3	34
50	Reduced selection for codon usage bias in <i>Drosophila miranda</i> . <i>Journal of Molecular Evolution</i> , 2007 , 64, 586-90	3.1	30

49	Alternative Splicing within and between Drosophila Species, Sexes, Tissues, and Developmental Stages. <i>PLoS Genetics</i> , 2016 , 12, e1006464	6	30
48	The chromatin landscape of Drosophila: comparisons between species, sexes, and chromosomes. <i>Genome Research</i> , 2014 , 24, 1125-37	9.7	29
47	Massive gene amplification on a recently formed Drosophila Y chromosome. <i>Nature Ecology and Evolution</i> , 2019 , 3, 1587-1597	12.3	29
46	Rapid divergence and diversification of mammalian duplicate gene functions. <i>BMC Evolutionary Biology</i> , 2015 , 15, 138	3	28
45	Ancestral Chromatin Configuration Constrains Chromatin Evolution on Differentiating Sex Chromosomes in Drosophila. <i>PLoS Genetics</i> , 2015 , 11, e1005331	6	26
44	A survey of chromosomal and nucleotide sequence variation in Drosophila miranda. <i>Genetics</i> , 2003 , 164, 1369-81	4	25
43	Non-allelic gene conversion enables rapid evolutionary change at multiple regulatory sites encoded by transposable elements. <i>ELife</i> , 2015 , 4,	8.9	23
42	The Y chromosome may contribute to sex-specific ageing in Drosophila. <i>Nature Ecology and Evolution</i> , 2020 , 4, 853-862	12.3	23
41	Positive selection at the binding sites of the male-specific lethal complex involved in dosage compensation in Drosophila. <i>Genetics</i> , 2008 , 180, 1123-9	4	22
40	The speciation history of the Drosophila nasuta complex. <i>Genetical Research</i> , 2006 , 88, 13-26	1.1	22
39	Partial dosage compensation in Strepsiptera, a sister group of beetles. <i>Genome Biology and Evolution</i> , 2015 , 7, 591-600	3.9	21
38	Contingency in the convergent evolution of a regulatory network: Dosage compensation in Drosophila. <i>PLoS Biology</i> , 2019 , 17, e3000094	9.7	19
37	The Drosophila Y Chromosome Affects Heterochromatin Integrity Genome-Wide. <i>Molecular Biology and Evolution</i> , 2020 , 37, 2808-2824	8.3	19
36	Recurrent gene co-amplification on Drosophila X and Y chromosomes. <i>PLoS Genetics</i> , 2019 , 15, e1008256		18
35	Sex-specific embryonic gene expression in species with newly evolved sex chromosomes. <i>PLoS Genetics</i> , 2014 , 10, e1004159	6	15
34	Characterizing recurrent positive selection at fast-evolving genes in Drosophila miranda and Drosophila pseudoobscura. <i>Genome Biology and Evolution</i> , 2010 , 2, 371-8	3.9	15
33	Patterns of Genome-Wide Diversity and Population Structure in the Drosophila athabasca Species Complex. <i>Molecular Biology and Evolution</i> , 2017 , 34, 1912-1923	8.3	13
32	Patterns of Genomic Differentiation in the Drosophila nasuta Species Complex. <i>Molecular Biology and Evolution</i> , 2020 , 37, 208-220	8.3	13

31	Plant sex chromosomes: a non-degenerated Y?. <i>Current Biology</i> , 2011 , 21, R685-8	6.3	11
30	Ancestral male recombination in <i>Drosophila albomicans</i> produced geographically restricted neo-Y chromosome haplotypes varying in age and onset of decay. <i>PLoS Genetics</i> , 2019 , 15, e1008502	6	11
29	De novo transcriptome assembly reveals sex-specific selection acting on evolving neo-sex chromosomes in <i>Drosophila miranda</i> . <i>BMC Genomics</i> , 2014 , 15, 241	4.5	10
28	The Y Chromosome as a Battleground for Intragenomic Conflict. <i>Trends in Genetics</i> , 2020 , 36, 510-522	8.5	10
27	Signs of genomic battles in mouse sex chromosomes. <i>Cell</i> , 2014 , 159, 716-8	56.2	9
26	Origins and evolution of extreme life span in Pacific Ocean rockfishes. <i>Science</i> , 2021 , 374, 842-847	33.3	9
25	Epigenetic conflict on a degenerating Y chromosome increases mutational burden in <i>Drosophila</i> males. <i>Nature Communications</i> , 2020 , 11, 5537	17.4	8
24	The Y chromosome contributes to sex-specific aging in <i>Drosophila</i>		6
23	Toxic Y chromosome: Increased repeat expression and age-associated heterochromatin loss in male <i>Drosophila</i> with a young Y chromosome. <i>PLoS Genetics</i> , 2021 , 17, e1009438	6	6
22	Establishment of H3K9me3-dependent heterochromatin during embryogenesis in. <i>ELife</i> , 2021 , 10,	8.9	6
21	Complex Evolutionary History of the Y Chromosome in Flies of the <i>Drosophila obscura</i> Species Group. <i>Genome Biology and Evolution</i> , 2020 , 12, 494-505	3.9	5
20	Epigenetics drive the evolution of sex chromosomes in animals and plants. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021 , 376, 20200124	5.8	5
19	On the genomic location of the <i>exuperantia1</i> gene in <i>Drosophila miranda</i> : the limits of in situ hybridization experiments. <i>Genetics</i> , 2003 , 164, 1237-40	4	4
18	The <i>Drosophila</i> Y chromosome affects heterochromatin integrity genome-wide		4
17	Toxic Y chromosome: increased repeat expression and age-associated heterochromatin loss in male <i>Drosophila</i> with a young Y chromosome		4
16	Chromosome-Level Assembly of Reveals Important Karyotypic Transition of the X Chromosome. <i>G3: Genes, Genomes, Genetics</i> , 2020 , 10, 891-897	3.2	4
15	Recurrent gene amplification on <i>Drosophila</i> Y chromosomes suggests cryptic sex chromosome drive is common on young sex chromosomes		3
14	Epigenetic conflict on a degenerating Y chromosome increases mutational burden in <i>Drosophila</i> males		2

13	Author response: Non-allelic gene conversion enables rapid evolutionary change at multiple regulatory sites encoded by transposable elements 2015 ,	2
12	Dynamic turnover of centromeres drives karyotype evolution in <i>Drosophila</i>	2
11	The evolution of alternative splicing in <i>Drosophila</i>	2
10	Molecular characterization of inversion breakpoints in the <i>Drosophila nasuta</i> species group	2
9	Restricted nucleation and piRNA-mediated establishment of heterochromatin during embryogenesis in <i>Drosophila miranda</i>	2
8	Massive gene amplification on a recently formed <i>Drosophila</i> Y chromosome	1
7	Neo-sex chromosome evolution shapes sex-dependent asymmetrical introgression barrier	1
6	The Theory and Applications of Measuring Broad-Range and Chromosome-Wide Recombination Rate from Allele Frequency Decay around a Selected Locus. <i>Molecular Biology and Evolution</i> , 2020 , 37, 3654-3671	8.3 0
5	Neo-sex chromosome evolution shapes sex-dependent asymmetrical introgression barrier.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2119382119 ^{11.5}	0
4	Ancestral male recombination in <i>Drosophila albomicans</i> produced geographically restricted neo-Y chromosome haplotypes varying in age and onset of decay 2019 , 15, e1008502	
3	Ancestral male recombination in <i>Drosophila albomicans</i> produced geographically restricted neo-Y chromosome haplotypes varying in age and onset of decay 2019 , 15, e1008502	
2	Ancestral male recombination in <i>Drosophila albomicans</i> produced geographically restricted neo-Y chromosome haplotypes varying in age and onset of decay 2019 , 15, e1008502	
1	Ancestral male recombination in <i>Drosophila albomicans</i> produced geographically restricted neo-Y chromosome haplotypes varying in age and onset of decay 2019 , 15, e1008502	