

Doris Bachtrog

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

8,637
citations

53660

45
h-index

53109

85
g-index

113
all docs

113
docs citations

113
times ranked

7002
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Dynamics and Impacts of Transposable Element Proliferation in the <i>Drosophila nasuta</i> Species Group Radiation. <i>Molecular Biology and Evolution</i> , 2022, 39, . | 3.5 | 13 |
| 2 | Transposable element accumulation drives size differences among polymorphic Y Chromosomes in <i>Drosophila</i> . <i>Genome Research</i> , 2022, 32, 1074-1088. | 2.4 | 8 |
| 3 | 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. | 3.3 | 7 |
| 4 | 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. | 1.8 | 15 |
| 5 | 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. | 1.5 | 24 |
| 6 | Establishment of H3K9me3-dependent heterochromatin during embryogenesis in <i>Drosophila miranda</i> . <i>ELife</i> , 2021, 10, . | 2.8 | 22 |
| 7 | Origins and evolution of extreme life span in Pacific Ocean rockfishes. <i>Science</i> , 2021, 374, 842-847. | 6.0 | 71 |
| 8 | Patterns of Genomic Differentiation in the <i>Drosophila nasuta</i> Species Complex. <i>Molecular Biology and Evolution</i> , 2020, 37, 208-220. | 3.5 | 26 |
| 9 | 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. | 3.5 | 2 |
| 10 | Epigenetic conflict on a degenerating Y chromosome increases mutational burden in <i>Drosophila</i> males. <i>Nature Communications</i> , 2020, 11, 5537. | 5.8 | 26 |
| 11 | Chromosome-Level Assembly of <i>Drosophila bifasciata</i> Reveals Important Karyotypic Transition of the X Chromosome. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 891-897. | 0.8 | 12 |
| 12 | 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. | 1.1 | 9 |
| 13 | The <i>Drosophila</i> Y Chromosome Affects Heterochromatin Integrity Genome-Wide. <i>Molecular Biology and Evolution</i> , 2020, 37, 2808-2824. | 3.5 | 49 |
| 14 | The Y chromosome may contribute to sex-specific ageing in <i>Drosophila</i> . <i>Nature Ecology and Evolution</i> , 2020, 4, 853-862. | 3.4 | 60 |
| 15 | The Y Chromosome as a Battleground for Intragenomic Conflict. <i>Trends in Genetics</i> , 2020, 36, 510-522. | 2.9 | 33 |
| 16 | Recurrent gene co-amplification on <i>Drosophila</i> X and Y chromosomes. <i>PLoS Genetics</i> , 2019, 15, e1008251. | 1.5 | 41 |
| 17 | Contingency in the convergent evolution of a regulatory network: Dosage compensation in <i>Drosophila</i> . <i>PLoS Biology</i> , 2019, 17, e3000094. | 2.6 | 26 |
| 18 | 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. | 1.5 | 30 |

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|----|--|-----|-----------|
| 19 | Massive gene amplification on a recently formed <i>Drosophila</i> Y chromosome. <i>Nature Ecology and Evolution</i> , 2019, 3, 1587-1597. | 3.4 | 55 |
| 20 | Dynamic turnover of centromeres drives karyotype evolution in <i>Drosophila</i> . <i>ELife</i> , 2019, 8, . | 2.8 | 71 |
| 21 | Title is missing!. , 2019, 15, e1008502. | | 0 |
| 22 | Title is missing!. , 2019, 15, e1008502. | | 0 |
| 23 | Title is missing!. , 2019, 15, e1008502. | | 0 |
| 24 | Title is missing!. , 2019, 15, e1008502. | | 0 |
| 25 | 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. | 2.6 | 86 |
| 26 | Patterns of Genome-Wide Diversity and Population Structure in the <i>Drosophila athabasca</i> Species Complex. <i>Molecular Biology and Evolution</i> , 2017, 34, 1912-1923. | 3.5 | 17 |
| 27 | Convergent evolution of Y chromosome gene content in flies. <i>Nature Communications</i> , 2017, 8, 785. | 5.8 | 59 |
| 28 | Sex Determination, Sex Chromosomes, and Karyotype Evolution in Insects. <i>Journal of Heredity</i> , 2017, 108, 78-93. | 1.0 | 146 |
| 29 | Alternative Splicing within and between <i>Drosophila</i> Species, Sexes, Tissues, and Developmental Stages. <i>PLoS Genetics</i> , 2016, 12, e1006464. | 1.5 | 53 |
| 30 | Ancestral Chromatin Configuration Constrains Chromatin Evolution on Differentiating Sex Chromosomes in <i>Drosophila</i> . <i>PLoS Genetics</i> , 2015, 11, e1005331. | 1.5 | 36 |
| 31 | Numerous Transitions of Sex Chromosomes in Diptera. <i>PLoS Biology</i> , 2015, 13, e1002078. | 2.6 | 279 |
| 32 | Partial Dosage Compensation in Strepsiptera, a Sister Group of Beetles. <i>Genome Biology and Evolution</i> , 2015, 7, 591-600. | 1.1 | 29 |
| 33 | Rapid divergence and diversification of mammalian duplicate gene functions. <i>BMC Evolutionary Biology</i> , 2015, 15, 138. | 3.2 | 51 |
| 34 | Non-allelic gene conversion enables rapid evolutionary change at multiple regulatory sites encoded by transposable elements. <i>ELife</i> , 2015, 4, . | 2.8 | 32 |
| 35 | Strepsiptera, Phylogenomics and the Long Branch Attraction Problem. <i>PLoS ONE</i> , 2014, 9, e107709. | 1.1 | 51 |
| 36 | Sex Determination: Why So Many Ways of Doing It?. <i>PLoS Biology</i> , 2014, 12, e1001899. | 2.6 | 916 |

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|----|--|------|-----------|
| 37 | Sex-Specific Embryonic Gene Expression in Species with Newly Evolved Sex Chromosomes. <i>PLoS Genetics</i> , 2014, 10, e1004159. | 1.5 | 25 |
| 38 | Complex evolutionary trajectories of sex chromosomes across bird taxa. <i>Science</i> , 2014, 346, 1246338. | 6.0 | 258 |
| 39 | Signs of Genomic Battles in Mouse Sex Chromosomes. <i>Cell</i> , 2014, 159, 716-718. | 13.5 | 11 |
| 40 | The chromatin landscape of <i>Drosophila</i> : comparisons between species, sexes, and chromosomes. <i>Genome Research</i> , 2014, 24, 1125-1137. | 2.4 | 40 |
| 41 | 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. | 1.2 | 11 |
| 42 | Dosage Compensation via Transposable Element Mediated Rewiring of a Regulatory Network. <i>Science</i> , 2013, 342, 846-850. | 6.0 | 153 |
| 43 | Conservation and de novo acquisition of dosage compensation on newly evolved sex chromosomes in <i>Drosophila</i> . <i>Genes and Development</i> , 2013, 27, 853-858. | 2.7 | 59 |
| 44 | Y-chromosome evolution: emerging insights into processes of Y-chromosome degeneration. <i>Nature Reviews Genetics</i> , 2013, 14, 113-124. | 7.7 | 693 |
| 45 | Horizontal Gene Transfer from Diverse Bacteria to an Insect Genome Enables a Tripartite Nested Mealybug Symbiosis. <i>Cell</i> , 2013, 153, 1567-1578. | 13.5 | 373 |
| 46 | Reversal of an ancient sex chromosome to an autosome in <i>Drosophila</i> . <i>Nature</i> , 2013, 499, 332-335. | 13.7 | 201 |
| 47 | The Epigenome of Evolving <i>Drosophila</i> Neo-Sex Chromosomes: Dosage Compensation and Heterochromatin Formation. <i>PLoS Biology</i> , 2013, 11, e1001711. | 2.6 | 82 |
| 48 | Comparative Sex Chromosome Genomics in Snakes: Differentiation, Evolutionary Strata, and Lack of Global Dosage Compensation. <i>PLoS Biology</i> , 2013, 11, e1001643. | 2.6 | 270 |
| 49 | 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, 6453-6458. | 3.3 | 146 |
| 50 | 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, 17409-17414. | 3.3 | 172 |
| 51 | Sex-Biased Transcriptome Evolution in <i>Drosophila</i> . <i>Genome Biology and Evolution</i> , 2012, 4, 1189-1200. | 1.1 | 159 |
| 52 | Deciphering neo-sex and B chromosome evolution by the draft genome of <i>Drosophila albomicans</i> . <i>BMC Genomics</i> , 2012, 13, 109. | 1.2 | 64 |
| 53 | Sex-Specific Adaptation Drives Early Sex Chromosome Evolution in <i>Drosophila</i> . <i>Science</i> , 2012, 337, 341-345. | 6.0 | 181 |
| 54 | Chromosome-Wide Gene Silencing Initiates Y Degeneration in <i>Drosophila</i> . <i>Current Biology</i> , 2012, 22, 522-525. | 1.8 | 67 |

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|----|--|------|-----------|
| 55 | Characterizing the Influence of Effective Population Size on the Rate of Adaptation: Gillespie's Darwin Domain. <i>Genome Biology and Evolution</i> , 2011, 3, 687-701. | 1.1 | 52 |
| 56 | 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 |
| 57 | Lack of Global Dosage Compensation in <i>Schistosoma mansoni</i> , a Female-Heterogametic Parasite. <i>Genome Biology and Evolution</i> , 2011, 3, 230-235. | 1.1 | 76 |
| 58 | Are all sex chromosomes created equal?. <i>Trends in Genetics</i> , 2011, 27, 350-357. | 2.9 | 307 |
| 59 | Plant Sex Chromosomes: A Non-Degenerated Y?. <i>Current Biology</i> , 2011, 21, R685-R688. | 1.8 | 12 |
| 60 | Nonrandom Gene Loss from the <i>Drosophila miranda</i> Neo-Y Chromosome. <i>Genome Biology and Evolution</i> , 2011, 3, 1329-1337. | 1.1 | 62 |
| 61 | Correlated Evolution of Nearby Residues in <i>Drosophilid</i> Proteins. <i>PLoS Genetics</i> , 2011, 7, e1001315. | 1.5 | 48 |
| 62 | Characterizing Recurrent Positive Selection at Fast-Evolving Genes in <i>Drosophila miranda</i> and <i>Drosophila pseudoobscura</i> . <i>Genome Biology and Evolution</i> , 2010, 2, 371-378. | 1.1 | 17 |
| 63 | Evolution of Sex Chromosomes in Insects. <i>Annual Review of Genetics</i> , 2010, 44, 91-112. | 3.2 | 127 |
| 64 | Dosage Compensation and Demasculinization of X Chromosomes in <i>Drosophila</i> . <i>Current Biology</i> , 2010, 20, 1476-1481. | 1.8 | 75 |
| 65 | Accelerated Adaptive Evolution on a Newly Formed X Chromosome. <i>PLoS Biology</i> , 2009, 7, e1000082. | 2.6 | 66 |
| 66 | Progress and prospects toward our understanding of the evolution of dosage compensation. <i>Chromosome Research</i> , 2009, 17, 585-602. | 1.0 | 104 |
| 67 | 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. | 3.2 | 45 |
| 68 | Genomic degradation of a young Y chromosome in <i>Drosophila miranda</i> . <i>Genome Biology</i> , 2008, 9, R30. | 13.9 | 151 |
| 69 | Gene content evolution on the X chromosome. <i>Current Opinion in Genetics and Development</i> , 2008, 18, 493-498. | 1.5 | 60 |
| 70 | Evidence for Male-Driven Evolution in <i>Drosophila</i> . <i>Molecular Biology and Evolution</i> , 2008, 25, 617-619. | 3.5 | 43 |
| 71 | 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 |
| 72 | Positive Selection at the Binding Sites of the Male-Specific Lethal Complex Involved in Dosage Compensation in <i>Drosophila</i> . <i>Genetics</i> , 2008, 180, 1123-1129. | 1.2 | 26 |

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|----|---|------|-----------|
| 73 | The Temporal Dynamics of Processes Underlying Y Chromosome Degeneration. <i>Genetics</i> , 2008, 179, 1513-1525. | 1.2 | 182 |
| 74 | Reduced Selection for Codon Usage Bias in <i>Drosophila miranda</i> . <i>Journal of Molecular Evolution</i> , 2007, 64, 586-590. | 0.8 | 32 |
| 75 | A dynamic view of sex chromosome evolution. <i>Current Opinion in Genetics and Development</i> , 2006, 16, 578-585. | 1.5 | 240 |
| 76 | The speciation history of the <i>Drosophila nasuta</i> complex. <i>Genetical Research</i> , 2006, 88, 13-26. | 0.3 | 26 |
| 77 | 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. | 1.1 | 187 |
| 78 | Expression Profile of a Degenerating Neo-Y Chromosome in <i>Drosophila</i> . <i>Current Biology</i> , 2006, 16, 1694-1699. | 1.8 | 72 |
| 79 | Selection, Recombination and Demographic History in <i>Drosophila miranda</i> . <i>Genetics</i> , 2006, 174, 2045-2059. | 1.2 | 73 |
| 80 | 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 |
| 81 | 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 |
| 82 | Sex chromosome evolution: Molecular aspects of Y-chromosome degeneration in <i>Drosophila</i> . <i>Genome Research</i> , 2005, 15, 1393-1401. | 2.4 | 103 |
| 83 | ADAPTIVE EVOLUTION OF ASEXUAL POPULATIONS UNDER MULLER'S RATCHET. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 1403-1413. | 1.1 | 77 |
| 84 | Evidence that positive selection drives Y-chromosome degeneration in <i>Drosophila miranda</i> . <i>Nature Genetics</i> , 2004, 36, 518-522. | 9.4 | 114 |
| 85 | Adaptation shapes patterns of genome evolution on sexual and asexual chromosomes in <i>Drosophila</i> . <i>Nature Genetics</i> , 2003, 34, 215-219. | 9.4 | 104 |
| 86 | 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, 173-181. | 3.5 | 77 |
| 87 | On the Genomic Location of the <i>exuperantia</i> Gene in <i>Drosophila miranda</i> : The Limits of in Situ Hybridization Experiments. <i>Genetics</i> , 2003, 164, 1237-1240. | 1.2 | 6 |
| 88 | A Survey of Chromosomal and Nucleotide Sequence Variation in <i>Drosophila miranda</i> . <i>Genetics</i> , 2003, 164, 1369-1381. | 1.2 | 29 |
| 89 | Protein Evolution and Codon Usage Bias on the Neo-Sex Chromosomes of <i>Drosophila miranda</i> . <i>Genetics</i> , 2003, 165, 1221-1232. | 1.2 | 43 |
| 90 | Reduced adaptation of a non-recombining neo-Y chromosome. <i>Nature</i> , 2002, 416, 323-326. | 13.7 | 208 |

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|----|--|-----|-----------|
| 91 | Reduced levels of microsatellite variability on the neo-Y chromosome of <i>Drosophila miranda</i> . <i>Current Biology</i> , 2000, 10, 1025-1031. | 1.8 | 55 |
| 92 | Microsatellite Variability Differs Between Dinucleotide Repeat Motifs—Evidence from <i>Drosophila melanogaster</i> . <i>Molecular Biology and Evolution</i> , 2000, 17, 1277-1285. | 3.5 | 83 |