Wolfgang Stephan

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The evolutionary dynamics of repetitive DNA in eukaryotes. Nature, 1994, 371, 215-220.	27.8	1,504
2	Detecting a Local Signature of Genetic Hitchhiking Along a Recombining Chromosome. Genetics, 2002, 160, 765-777.	2.9	567
3	The effect of strongly selected substitutions on neutral polymorphism: Analytical results based on diffusion theory. Theoretical Population Biology, 1992, 41, 237-254.	1.1	319
4	Inferring the Demographic History and Rate of Adaptive Substitution in Drosophila. PLoS Genetics, 2006, 2, e166.	3.5	281
5	A Critical Assessment of Storytelling: Gene Ontology Categories and the Importance of Validating Genomic Scans. Molecular Biology and Evolution, 2012, 29, 3237-3248.	8.9	220
6	Demography and Natural Selection Have Shaped Genetic Variation in <i>Drosophila melanogaster</i> : A Multi-locus Approach. Genetics, 2003, 165, 1269-1278.	2.9	217
7	Joint Effects of Genetic Hitchhiking and Background Selection on Neutral Variation. Genetics, 2000, 155, 1415-1427.	2.9	179
8	Searching for Footprints of Positive Selection in Whole-Genome SNP Data From Nonequilibrium Populations. Genetics, 2010, 185, 907-922.	2.9	159
9	Genetic hitchhiking versus background selection: the controversy and its implications. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 1245-1253.	4.0	153
10	DNA Polymorphism in Lycopersicon and Crossing-Over per Physical Length. Genetics, 1998, 150, 1585-1593.	2.9	151
11	The Hitchhiking Effect on Linkage Disequilibrium Between Linked Neutral Loci. Genetics, 2006, 172, 2647-2663.	2.9	146
12	Effects of a Population Bottleneck on Whooping Crane Mitochondrial DNA Variation. Conservation Biology, 1999, 13, 1097-1107.	4.7	137
13	Signatures of positive selection: from selective sweeps at individual loci to subtle allele frequency changes in polygenic adaptation. Molecular Ecology, 2016, 25, 79-88.	3.9	137
14	Inferring the Effects of Demography and Selection on Drosophila melanogaster Populations from a Chromosome-Wide Scan of DNA Variation. Molecular Biology and Evolution, 2005, 22, 2119-2130.	8.9	133
15	Selective Sweeps. Genetics, 2019, 211, 5-13.	2.9	128
16	The importance of the Neutral Theory in 1968 and 50 years on: A response to Kern and Hahn 2018. Evolution; International Journal of Organic Evolution, 2019, 73, 111-114.	2.3	123
17	The Rate of Compensatory Evolution. Genetics, 1996, 144, 419-426.	2.9	116
18	The Relationship Between Third-Codon Position Nucleotide Content, Codon Bias, mRNA Secondary Structure and Gene Expression in the Drosophilid Alcohol Dehydrogenase Genes <i>Adh</i> and <i>Adhr</i> . Genetics, 2001, 159, 623-633.	2.9	113

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19	Distinctly Different Sex Ratios in African and European Populations of <i>Drosophila melanogaster</i> Inferred From Chromosomewide Single Nucleotide Polymorphism Data. Genetics, 2007, 177, 469-480.	2.9	103
20	The advance of Muller's ratchet in a haploid asexual population: approximate solutions based on diffusion theory. Genetical Research, 1993, 61, 225-231.	0.9	102
21	Species and Recombination Effects on DNA Variability in the Tomato Genus. Genetics, 2001, 158, 1725-1735.	2.9	102
22	The Relationship of Nucleotide Polymorphism, Recombination Rate and Selection in Wild Tomato Species. Genetics, 2005, 171, 753-763.	2.9	94
23	Rapid Adaptation of a Polygenic Trait After a Sudden Environmental Shift. Genetics, 2017, 206, 389-406.	2.9	86
24	Selective Sweeps in the Presence of Interference Among Partially Linked Loci. Genetics, 2003, 164, 389-398.	2.9	86
25	Comparative Sequence Analysis and Patterns of Covariation in RNA Secondary Structures. Genetics, 2000, 154, 909-921.	2.9	76
26	Adaptation to drought in two wild tomato species: the evolution of the <i>Asr</i> gene family. New Phytologist, 2011, 190, 1032-1044.	7.3	73
27	RNA secondary structure and compensatory evolution Genes and Genetic Systems, 1999, 74, 271-286.	0.7	71
28	Multi-Locus Selection and the Structure of Variation at the <i>white</i> Gene of <i>Drosophila melanogaster</i> . Genetics, 1996, 144, 635-645.	2.9	70
29	Inferring the Population Structure and Demography of Drosophila ananassae From Multilocus Data. Genetics, 2004, 168, 1975-1985.	2.9	69
30	Modes of Rapid Polygenic Adaptation. Molecular Biology and Evolution, 2017, 34, 3169-3175.	8.9	65
31	Selection Intensity Against Deleterious Mutations in RNA Secondary Structures and Rate of Compensatory Nucleotide Substitutions. Genetics, 2001, 159, 389-399.	2.9	60
32	Recommendations for improving statistical inference in population genomics. PLoS Biology, 2022, 20, e3001669.	5.6	60
33	Bayesian Variable Selection for Detecting Adaptive Genomic Differences Among Populations. Genetics, 2008, 178, 1817-1829.	2.9	59
34	Evidence that strong positive selection drives neofunctionalization in the tandemly duplicated polyhomeotic genes in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5447-5452.	7.1	55
35	Selective Sweeps in Multilocus Models of Quantitative Traits. Genetics, 2012, 192, 225-239.	2.9	48
36	North–South Colonization Associated with Local Adaptation of the Wild Tomato Species <i>Solanum chilense</i> . Molecular Biology and Evolution, 2015, 32, 2932-2943.	8.9	47

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37	Canalization of gene expression is a major signature of regulatory cold adaptation in temperate Drosophila melanogaster. BMC Genomics, 2016, 17, 574.	2.8	46
38	The Coalescent in an Exponentially Growing Metapopulation and Its Application toArabidopsis thaliana. Genetics, 2000, 155, 2015-2019.	2.9	44
39	Evidence for a Selective Sweep in the wapl Region of Drosophila melanogaster. Genetics, 2006, 172, 265-274.	2.9	42
40	Distinguishing the Hitchhiking and Background Selection Models. Genetics, 2003, 165, 2307-2312.	2.9	41
41	Response of Polygenic Traits Under Stabilizing Selection and Mutation When Loci Have Unequal Effects. G3: Genes, Genomes, Genetics, 2015, 5, 1065-1074.	1.8	38
42	The effect of background selection at a single locus on weakly selected, partially linked variants. Genetical Research, 1999, 73, 133-146.	0.9	37
43	Transition Densities and Sample Frequency Spectra of Diffusion Processes with Selection and Variable Population Size. Genetics, 2015, 200, 601-617.	2.9	37
44	Adaptation to low temperatures in the wild tomato species <i>Solanum chilense</i> . Molecular Ecology, 2016, 25, 2853-2869.	3.9	31
45	A genome-wide scan for genes under balancing selection in Drosophila melanogaster. BMC Evolutionary Biology, 2017, 17, 15.	3.2	30
46	Deletion of a Conserved Regulatory Element in the Drosophila <i>Adh</i> Gene Leads to Increased Alcohol Dehydrogenase Activity but Also Delays Development. Genetics, 2000, 156, 219-227.	2.9	28
47	The Role of Natural Selection in Genetic Differentiation of Worldwide Populations of Drosophila ananassae. Genetics, 2004, 168, 1987-1998.	2.9	27
48	Fine-Mapping and Selective Sweep Analysis of QTL for Cold Tolerance in <i>Drosophila melanogaster</i> . G3: Genes, Genomes, Genetics, 2014, 4, 1635-1645.	1.8	27
49	Inferring positive selection in humans from genomic data. Investigative Genetics, 2015, 6, 5.	3.3	27
50	Population genetic evidence for cold adaptation in European <i>Drosophila melanogaster</i> populations. Molecular Ecology, 2016, 25, 1175-1191.	3.9	25
51	Signatures of natural selection in abiotic stress-responsive genes of <i>Solanum chilense</i> . Royal Society Open Science, 2018, 5, 171198.	2.4	25
52	The mean and variance of the number of segregating sites since the last hitchhiking event. Journal of Mathematical Biology, 1997, 36, 1-23.	1.9	23
53	Joint Effects of Natural Selection and Recombination on Gene Flow Between Drosophila ananassae Populations. Genetics, 2000, 155, 1185-1194.	2.9	22
54	Evidence of Gene Conversion Associated with a Selective Sweep in Drosophila melanogaster. Molecular Biology and Evolution, 2006, 23, 1869-1878.	8.9	21

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55	Positive Selection at the Polyhomeotic Locus Led to Decreased Thermosensitivity of Gene Expression in Temperate Drosophila melanogaster. Genetics, 2015, 200, 591-599.	2.9	19
56	Detecting strong positive selection in the genome. Molecular Ecology Resources, 2010, 10, 863-872.	4.8	18
57	Important role of genetic drift in rapid polygenic adaptation. Ecology and Evolution, 2020, 10, 1278-1287.	1.9	18
58	Recent Strong Positive Selection on Drosophila melanogaster HDAC6, a Gene Encoding a Stress Surveillance Factor, as Revealed by Population Genomic Analysis. Molecular Biology and Evolution, 2009, 26, 1549-1556.	8.9	17
59	Adaptive Fixation in Two-Locus Models of Stabilizing Selection and Genetic Drift. Genetics, 2014, 198, 685-697.	2.9	17
60	Survival Rate and Transcriptional Response upon Infection with the Generalist Parasite Beauveria bassiana in a World-Wide Sample of Drosophila melanogaster. PLoS ONE, 2015, 10, e0132129.	2.5	16
61	Soft selective sweeps: Addressing new definitions, evaluating competing models, and interpreting empirical outliers. PLoS Genetics, 2022, 18, e1010022.	3.5	15
62	Allele frequency changes in artificial selection experiments: statistical power and precision of QTL mapping. Genetical Research, 1999, 73, 177-184.	0.9	12
63	Polygenic Adaptation in a Population of Finite Size. Entropy, 2020, 22, 907.	2.2	11
64	Perturbation analysis of a two-locus model with directional selection and recombination. Journal of Mathematical Biology, 1995, 34, 95-109.	1.9	7
65	Decreased Temperature Sensitivity of Vestigial Gene Expression in Temperate Populations of Drosophila melanogaster. Genes, 2019, 10, 498.	2.4	5
66	Reply to Beatriz Vicoso and Brian Charlesworth. Genetics, 2009, 181, 1703-1703.	2.9	3
67	Rapid Evolutionary Adaptation in Response to Selection on Quantitative Traits. Life, 2021, 11, 797.	2.4	2
68	Background selection. , 2019, , 137-145.		0
69	The classical hitchhiking model with continuous mutational pressure and purifying selection. Ecology and Evolution, 2021, 11, 15896-15904.	1.9	0