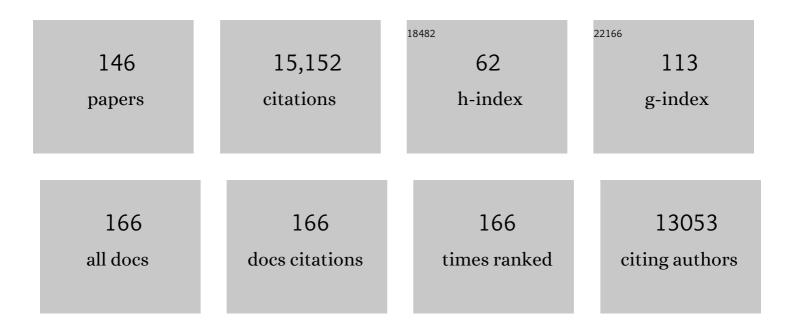
Adam C Eyre-Walker

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Factors That Affect the Rates of Adaptive and Nonadaptive Evolution at the Gene Level in Humans and Chimpanzees. Genome Biology and Evolution, 2022, 14, .	2.5	0
2	Editorial. Genome Biology and Evolution, 2022, 14, .	2.5	1
3	Changing Population Size in McDonald–Kreitman Style Analyses: Artifactual Correlations and Adaptive Evolution between Humans and Chimpanzees. Genome Biology and Evolution, 2022, 14, .	2.5	3
4	Patterns of selection in the evolution of a transposable element. G3: Genes, Genomes, Genetics, 2022, 12, .	1.8	3
5	A new test suggests hundreds of amino acid polymorphisms in humans are subject to balancing selection. PLoS Biology, 2022, 20, e3001645.	5.6	5
6	Recommendations for improving statistical inference in population genomics. PLoS Biology, 2022, 20, e3001669.	5.6	60
7	On the prospect of achieving accurate joint estimation of selection with population history. Genome Biology and Evolution, 2022, 14, .	2.5	28
8	The outstanding scientist, R.A. Fisher: his views on eugenics and race. Heredity, 2021, 126, 565-576.	2.6	6
9	Impact of Mutation Rate and Selection at Linked Sites on DNA Variation across the Genomes of Humans and Other Homininae. Genome Biology and Evolution, 2020, 12, 3550-3561.	2.5	18
10	Mitochondrial DNA Sequence Diversity in Mammals: A Correlation between the Effective and Census Population Sizes. Genome Biology and Evolution, 2020, 12, 2441-2449.	2.5	13
11	Editorial. Genome Biology and Evolution, 2019, 11, 1958-1958.	2.5	0
12	Investigating Evolutionary Rate Variation in Bacteria. Journal of Molecular Evolution, 2019, 87, 317-326.	1.8	31
13	Mitochondrial replacement and its effects on human health. Human Reproduction Update, 2019, 25, 392-394.	10.8	3
14	Does Adaptive Protein Evolution Proceed by Large or Small Steps at the Amino Acid Level?. Molecular Biology and Evolution, 2019, 36, 990-998.	8.9	14
15	The comparative population genetics of <i>Neisseria meningitidis</i> and <i>Neisseria gonorrhoeae</i> . PeerJ, 2019, 7, e7216.	2.0	20
16	The distribution of bacterial doubling times in the wild. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180789.	2.6	182
17	Nearly Neutral Evolution across the Drosophila melanogaster Genome. Molecular Biology and Evolution, 2018, 35, 2685-2694.	8.9	32
18	Large scale variation in the rate of germ-line de novo mutation, base composition, divergence and diversity in humans. PLoS Genetics, 2018, 14, e1007254.	3.5	73

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19	Mitochondrial Replacement Therapy: Are Mito-nuclear Interactions Likely To Be a Problem?. Genetics, 2017, 205, 1365-1372.	2.9	65
20	Population genomics of picophytoplankton unveils novel chromosome hypervariability. Science Advances, 2017, 3, e1700239.	10.3	73
21	Are pangenomes adaptive or not?. Nature Microbiology, 2017, 2, 1576-1576.	13.3	59
22	Spontaneous Mutation Rate in the Smallest Photosynthetic Eukaryotes. Molecular Biology and Evolution, 2017, 34, 1770-1779.	8.9	65
23	DNA sequence diversity and the efficiency of natural selection in animal mitochondrial DNA. Heredity, 2017, 118, 88-95.	2.6	28
24	Fitness Effects of Spontaneous Mutations in Picoeukaryotic Marine Green Algae. G3: Genes, Genomes, Genetics, 2016, 6, 2063-2071.	1.8	13
25	Molecular Evolutionary Consequences of Island Colonization. Genome Biology and Evolution, 2016, 8, 1876-1888.	2.5	33
26	The rate of adaptive evolution in animal mitochondria. Molecular Ecology, 2016, 25, 67-78.	3.9	109
27	Extensive Variation in the Mutation Rate Between and Within Human Genes Associated with Mendelian Disease. Human Mutation, 2016, 37, 488-494.	2.5	17
28	Adaptive Evolution Is Substantially Impeded by Hill–Robertson Interference in <i>Drosophila</i> . Molecular Biology and Evolution, 2016, 33, 442-455.	8.9	77
29	Are sites with multiple single nucleotide variants in cancer genomes a consequence of drivers, hypermutable sites or sequencing errors?. PeerJ, 2016, 4, e2391.	2.0	6
30	Rates of Lateral Gene Transfer in Prokaryotes: High but Why?. Trends in Microbiology, 2015, 23, 598-605.	7.7	153
31	Research groups: How big should they be?. PeerJ, 2015, 3, e989.	2.0	41
32	Fluctuating Selection Models and Mcdonald-Kreitman Type Analyses. PLoS ONE, 2014, 9, e84540.	2.5	18
33	An improved genome of the model marine alga Ostreococcus tauri unfolds by assessing Illumina de novo assemblies. BMC Genomics, 2014, 15, 1103.	2.8	90
34	How Much of the Variation in the Mutation Rate Along the Human Genome Can Be Explained?. G3: Genes, Genomes, Genetics, 2014, 4, 1667-1670.	1.8	18
35	Population size and the rate of evolution. Trends in Ecology and Evolution, 2014, 29, 33-41.	8.7	346
36	The Role of Mutation Rate Variation and Genetic Diversity in the Architecture of Human Disease. PLoS ONE, 2014, 9, e90166.	2.5	9

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37	The Assessment of Science: The Relative Merits of Post-Publication Review, the Impact Factor, and the Number of Citations. PLoS Biology, 2013, 11, e1001675.	5.6	191
38	Organellar Inheritance in the Green Lineage: Insights from Ostreococcus tauri. Genome Biology and Evolution, 2013, 5, 1503-1511.	2.5	20
39	ODoSE: A Webserver for Genome-Wide Calculation of Adaptive Divergence in Prokaryotes. PLoS ONE, 2013, 8, e62447.	2.5	9
40	A Resolution of the Mutation Load Paradox in Humans. Genetics, 2012, 191, 1321-1330.	2.9	50
41	The Effect of Variation in the Effective Population Size on the Rate of Adaptive Molecular Evolution in Eukaryotes. Genome Biology and Evolution, 2012, 4, 658-667.	2.5	156
42	A Selection Index for Gene Expression Evolution and Its Application to the Divergence between Humans and Chimpanzees. PLoS ONE, 2012, 7, e34935.	2.5	15
43	Estimating the Rate of Adaptive Molecular Evolution When the Evolutionary Divergence Between Species is Small. Journal of Molecular Evolution, 2012, 74, 61-68.	1.8	34
44	The large-scale distribution of somatic mutations in cancer genomes. Human Mutation, 2012, 33, 136-143.	2.5	77
45	Hundreds of putatively functional small open reading frames in Drosophila. Genome Biology, 2011, 12, R118.	9.6	143
46	The Accumulation of Gene Regulation Through Time. Genome Biology and Evolution, 2011, 3, 667-673.	2.5	31
47	Variation in the mutation rate across mammalian genomes. Nature Reviews Genetics, 2011, 12, 756-766.	16.3	438
48	A Method for Inferring the Rate of Occurrence and Fitness Effects of Advantageous Mutations. Genetics, 2011, 189, 1427-1437.	2.9	111
49	The Positive Correlation between dN/dS and dS in Mammals Is Due to Runs of Adjacent Substitutions. Molecular Biology and Evolution, 2011, 28, 1371-1380.	8.9	38
50	Quantifying the Variation in the Effective Population Size Within a Genome. Genetics, 2011, 189, 1389-1402.	2.9	91
51	Estimation of the Neutrality Index. Molecular Biology and Evolution, 2011, 28, 63-70.	8.9	224
52	How and Why DNA Barcodes Underestimate the Diversity of Microbial Eukaryotes. PLoS ONE, 2011, 6, e16342.	2.5	62
53	The Genomic Distribution and Local Context of Coincident SNPs in Human and Chimpanzee. Genome Biology and Evolution, 2010, 2, 547-557.	2.5	25
54	Direct Measure of the De Novo Mutation Rate in Autism and Schizophrenia Cohorts. American Journal of Human Genetics, 2010, 87, 316-324.	6.2	222

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55	Human Triallelic Sites: Evidence for a New Mutational Mechanism?. Genetics, 2010, 184, 233-241.	2.9	76
56	Transposable Elements: Insertion Pattern and Impact on Gene Expression Evolution in Hominids. Molecular Biology and Evolution, 2010, 27, 1955-1962.	8.9	36
57	What can we learn about the distribution of fitness effects of new mutations from DNA sequence data?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 1187-1193.	4.0	88
58	Genetic architecture of a complex trait and its implications for fitness and genome-wide association studies. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1752-1756.	7.1	222
59	Evidence for Pervasive Adaptive Protein Evolution in Wild Mice. PLoS Genetics, 2010, 6, e1000825.	3.5	123
60	Genome Wide Analyses Reveal Little Evidence for Adaptive Evolution in Many Plant Species. Molecular Biology and Evolution, 2010, 27, 1822-1832.	8.9	227
61	Evidence of Selection upon Genomic GC-Content in Bacteria. PLoS Genetics, 2010, 6, e1001107.	3.5	355
62	The Effect of Transposable Element Insertions on Gene Expression Evolution in Rodents. PLoS ONE, 2009, 4, e4321.	2.5	32
63	Estimating the Rate of Adaptive Molecular Evolution in the Presence of Slightly Deleterious Mutations and Population Size Change. Molecular Biology and Evolution, 2009, 26, 2097-2108.	8.9	413
64	Cryptic Variation in the Human Mutation Rate. PLoS Biology, 2009, 7, e1000027.	5.6	101
65	A Problem With the Correlation Coefficient as a Measure of Gene Expression Divergence. Genetics, 2009, 183, 1597-1600.	2.9	53
66	Evidence for Variation in the Effective Population Size of Animal Mitochondrial DNA. PLoS ONE, 2009, 4, e4396.	2.5	108
67	Divergence and Polymorphism Under the Nearly Neutral Theory of Molecular Evolution. Journal of Molecular Evolution, 2008, 67, 418-426.	1.8	74
68	The Excess of Small Inverted Repeats in Prokaryotes. Journal of Molecular Evolution, 2008, 67, 291-300.	1.8	15
69	The McDonald-Kreitman Test and Slightly Deleterious Mutations. Molecular Biology and Evolution, 2008, 25, 1007-1015.	8.9	167
70	The evolution of courtship behaviors through the origination of a new gene in <i>Drosophila</i> . Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7478-7483.	7.1	76
71	The other side of the nearly neutral theory, evidence of slightly advantageous back-mutations. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16992-16997.	7.1	77
72	Joint Inference of the Distribution of Fitness Effects of Deleterious Mutations and Population Demography Based on Nucleotide Polymorphism Frequencies. Genetics, 2007, 177, 2251-2261.	2.9	336

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73	The distribution of fitness effects of new mutations. Nature Reviews Genetics, 2007, 8, 610-618.	16.3	1,234
74	Searching for Sequence Directed Mutagenesis in Eukaryotes. Journal of Molecular Evolution, 2007, 64, 1-3.	1.8	5
75	EVOLUTION: Enhanced: Size Does Not Matter for Mitochondrial DNA. Science, 2006, 312, 537-538.	12.6	14
76	A new perspective on isochore evolution. Gene, 2006, 385, 71-74.	2.2	88
77	The genomic rate of adaptive evolution. Trends in Ecology and Evolution, 2006, 21, 569-575.	8.7	271
78	Variation in synonymous codon use and DNA polymorphism within the Drosophila genome. Journal of Evolutionary Biology, 2006, 19, 1-11.	1.7	33
79	Understanding the Degradation of Hominid Gene Control. PLoS Computational Biology, 2006, 2, e19.	3.2	6
80	Synonymous Codon Usage in Escherichia coli: Selection for Translational Accuracy. Molecular Biology and Evolution, 2006, 24, 374-381.	8.9	290
81	The Distribution of Fitness Effects of New Deleterious Amino Acid Mutations in Humans. Genetics, 2006, 173, 891-900.	2.9	360
82	The Rate of Adaptive Evolution in Enteric Bacteria. Molecular Biology and Evolution, 2006, 23, 1348-1356.	8.9	146
83	Why Are Young and Old Repetitive Elements Distributed Differently in the Human Genome?. Journal of Molecular Evolution, 2005, 60, 290-296.	1.8	9
84	Evidence for Widespread Degradation of Gene Control Regions in Hominid Genomes. PLoS Biology, 2005, 3, e42.	5.6	178
85	A Dissection of Volatility in Yeast. Molecular Biology and Evolution, 2005, 22, 2022-2026.	8.9	10
86	An investigation of the variation in the transition bias among various animal mitochondrial DNA. Gene, 2005, 355, 58-66.	2.2	53
87	A Broad Survey of Recombination in Animal Mitochondria. Molecular Biology and Evolution, 2004, 21, 2319-2325.	8.9	178
88	Patterns of Evolutionary Constraints in Intronic and Intergenic DNA of Drosophila. Genome Research, 2004, 14, 273-279.	5.5	99
89	The Genomic Rate of Adaptive Amino Acid Substitution in Drosophila. Molecular Biology and Evolution, 2004, 21, 1350-1360.	8.9	214
90	A reanalysis of the indirect evidence for recombination in human mitochondrial DNA. Heredity, 2004, 92, 282-288.	2.6	48

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91	Evolutionary genetics: Direct evidence of recombination in human mitochondrial DNA. Heredity, 2004, 93, 321-321.	2.6	20
92	The Decline of Isochores in Mammals: An Assessment of the GC ContentVariation Along the Mammalian Phylogeny. Journal of Molecular Evolution, 2004, 58, 653-660.	1.8	63
93	Mitochondrial Steve: paternal inheritance of mitochondria in humans. Trends in Ecology and Evolution, 2003, 18, 2-4.	8.7	62
94	Human disease genes: patterns and predictions. Gene, 2003, 318, 169-175.	2.2	97
95	Estimating the distribution of fitness effects from DNA sequence data: Implications for the molecular clock. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10335-10340.	7.1	83
96	Partitioning the Variation in Mammalian Substitution Rates. Molecular Biology and Evolution, 2003, 20, 10-17.	8.9	33
97	The Problem of Counting Sites in the Estimation of the Synonymous and Nonsynonymous Substitution Rates: Implications for the Correlation Between the Synonymous Substitution Rate and Codon Usage Bias. Genetics, 2003, 165, 1587-1597.	2.9	75
98	Quantifying the Slightly Deleterious Mutation Model of Molecular Evolution. Molecular Biology and Evolution, 2002, 19, 2142-2149.	8.9	191
99	Analysis of the Phylogenetic Distribution of Isochores in Vertebrates and a Test of the Thermal Stability Hypothesis. Journal of Molecular Evolution, 2002, 55, 356-363.	1.8	33
100	The Compositional Evolution of the Murid Genome. Journal of Molecular Evolution, 2002, 55, 197-201.	1.8	20
101	Adaptive protein evolution in Drosophila. Nature, 2002, 415, 1022-1024.	27.8	632
102	The Evolution of Isochores: Evidence From SNP Frequency Distributions. Genetics, 2002, 162, 1805-1810.	2.9	56
103	Changing Effective Population Size and the McDonald-Kreitman Test. Genetics, 2002, 162, 2017-2024.	2.9	221
104	A Test of Whether Selection Maintains Isochores Using Sites Polymorphic for Alu and L1 Element Insertions. Genetics, 2002, 160, 815-817.	2.9	6
105	A Test of Amino Acid Reversibility. Journal of Molecular Evolution, 2001, 52, 467-469.	1.8	3
106	Why Are Translationally Sub-Optimal Synonymous Codons Used in Escherichia coli?. Journal of Molecular Evolution, 2001, 53, 225-236.	1.8	25
107	Does Human mtDNA Recombine?. Journal of Molecular Evolution, 2001, 53, 430-435.	1.8	67
108	The evolution of isochores. Nature Reviews Genetics, 2001, 2, 549-555.	16.3	379

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109	Response to Kondrashov. Trends in Genetics, 2001, 17, 77-78.	6.7	11
110	Synonymous Codon Bias Is Not Caused by Mutation Bias in G+C-Rich Genes in Humans. Molecular Biology and Evolution, 2001, 18, 982-986.	8.9	79
111	The Correlation Between Linkage Disequilibrium and Distance: Implications for Recombination in Hominid Mitochondria. Molecular Biology and Evolution, 2001, 18, 2132-2135.	8.9	36
112	Nucleotide Substitution Rate Estimation in Enterobacteria: Approximate and Maximum-Likelihood Methods Lead to Similar Conclusions. Molecular Biology and Evolution, 2001, 18, 2124-2126.	8.9	15
113	Evolutionary genomics: reading the bands. BioEssays, 2000, 22, 105-107.	2.5	6
114	Questioning Evidence for Recombination in Human Mitochondrial DNA. Science, 2000, 288, 1931-1931.	12.6	88
115	Deleterious Mutations and the Evolution of Sex. Science, 2000, 290, 331-333.	12.6	249
116	Do mitochondria recombine in humans?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2000, 355, 1573-1580.	4.0	39
117	How clonal are human mitochondria?. Proceedings of the Royal Society B: Biological Sciences, 1999, 266, 477-483.	2.6	152
118	Reply to Macaulay et al. (1999): mitochondrial DNA recombination-reasons to panic. Proceedings of the Royal Society B: Biological Sciences, 1999, 266, 2041-2042.	2.6	20
119	High genomic deleterious mutation rates in hominids. Nature, 1999, 397, 344-347.	27.8	412
120	Linkage Disequilibrium and Recombination in Hominid Mitochondrial DNA. Science, 1999, 286, 2524-2525.	12.6	270
121	Evolutionary genomics. Trends in Ecology and Evolution, 1999, 14, 176.	8.7	2
122	Evidence of Selection on Silent Site Base Composition in Mammals: Potential Implications for the Evolution of Isochores and Junk DNA. Genetics, 1999, 152, 675-683.	2.9	177
123	Terumi Mukai and the Riddle of Deleterious Mutation Rates. Genetics, 1999, 153, 515-523.	2.9	154
124	Mutation pressure, natural selection, and the evolution of base composition in Drosophila. Genetica, 1998, 102/103, 49-60.	1.1	65
125	Patterns of Base Composition Within the Genes of Drosophila melanogaster. Journal of Molecular Evolution, 1998, 46, 534-541.	1.8	31
126	Problems with Parsimony in Sequences of Biased Base Composition. Journal of Molecular Evolution, 1998, 47, 686-690.	1.8	110

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127	Translational selection and molecular evolution. Current Opinion in Genetics and Development, 1998, 8, 688-693.	3.3	194
128	Investigation of the bottleneck leading to the domestication of maize. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 4441-4446.	7.1	359
129	Mutation pressure, natural selection, and the evolution of base composition in Drosophila. Contemporary Issues in Genetics and Evolution, 1998, , 49-60.	0.9	7
130	Correlated rates of synonymous site evolution across plant genomes. Molecular Biology and Evolution, 1997, 14, 455-460.	8.9	106
131	The muddle about mutations. Nature, 1997, 387, 135-136.	27.8	39
132	Differentiating Between Selection and Mutation Bias. Genetics, 1997, 147, 1983-1987.	2.9	55
133	Synonymous codon bias is related to gene length in Escherichia coli: selection for translational accuracy?. Molecular Biology and Evolution, 1996, 13, 864-872.	8.9	208
134	The close proximity ofEscherichia coli genes: Consequences for stop codon and synonymous codon use. Journal of Molecular Evolution, 1996, 42, 73-78.	1.8	41
135	Does very short patch (VSP) repair efficiency vary in relation to gene expression levels?. Journal of Molecular Evolution, 1995, 40, 705-706.	1.8	4
136	The distance between Escherichia coli genes is related to gene expression levels. Journal of Bacteriology, 1995, 177, 5368-5369.	2.2	18
137	Synonymous substitution rates in enterobacteria Genetics, 1995, 140, 1407-1412.	2.9	79
138	DNA mismatch repair and synonymous codon evolution in mammals Molecular Biology and Evolution, 1994, 11, 88-98.	8.9	29
139	Synonymous substitutions are clustered in enterobacterial genes. Journal of Molecular Evolution, 1994, 39, 448-51.	1.8	6
140	Recombination and mammalian genome evolution. Proceedings of the Royal Society B: Biological Sciences, 1993, 252, 237-243.	2.6	211
141	Reduced synonymous substitution rate at the start of enterobacterial genes. Nucleic Acids Research, 1993, 21, 4599-4603.	14.5	165
142	Evidence that both G + C rich and G + C poor isochores are replicated early and late in the cell cycle. Nucleic Acids Research, 1992, 20, 1497-1501.	14.5	41
143	The role of DNA replication and isochores in generating mutation and silent substitution rate variance in mammals. Genetical Research, 1992, 60, 61-67.	0.9	9
144	The effect of constraint on the rate of evolution in neutral models with biased mutation Genetics, 1992, 131, 233-234.	2.9	8

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145	An analysis of codon usage in mammals: Selection or mutation bias?. Journal of Molecular Evolution, 1991, 33, 442-449.	1.8	105
146	Signatures of selection on mitonuclear integrated genes uncover hidden mitogenomic variation in fur seals. Genome Biology and Evolution, 0, , .	2.5	2