

# Daniel L Hartl

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

202  
papers

16,142  
citations

73  
h-index

123  
g-index

211  
ext. papers

18,351  
ext. citations

9.9  
avg, IF

6.59  
L-index

#	Paper	IF	Citations
202	Remembering Richard Lewontin (1929-2021). <i>Biological Theory</i> , <b>2021</b> , 16, 257	1.7	0
201	Fine-scale variation in malaria prevalence across ecological regions in Madagascar: a cross-sectional study. <i>BMC Public Health</i> , <b>2021</b> , 21, 1018	4.1	0
200	Relevance of Higher-Order Epistasis in Drug Resistance. <i>Molecular Biology and Evolution</i> , <b>2021</b> , 38, 142-153	13	3
199	A Response to Lã Drieu et al., 2020, Is It Possible to Identify Ancient Wine Production Using Biomolecular Approaches? (STAR: Science & Technology of Archaeological Research, DOI:10.1080/20548923.2020.1738728). <i>Science and Technology of Archaeological Research</i> , <b>2021</b> , 7, 43-48	1.2	1
198	Switching an active site helix in dihydrofolate reductase reveals limits to subdomain modularity. <i>Biophysical Journal</i> , <b>2021</b> , 120, 4738-4750	2.9	
197	Genetic surveillance for monitoring the impact of drug use on Plasmodium falciparum populations. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , <b>2021</b> , 17, 12-22	4	1
196	Experimental evolution for niche breadth in bacteriophage T4 highlights the importance of structural genes. <i>MicrobiologyOpen</i> , <b>2020</b> , 9, e968	3.4	1
195	Genetic background and PfKelch13 affect artemisinin susceptibility of PfCoronin mutants in Plasmodium falciparum. <i>PLoS Genetics</i> , <b>2020</b> , 16, e1009266	6	7
194	Evidence for Reduced Malaria Parasite Population after Application of Population-Level Antimalarial Drug Strategies in Southern Province, Zambia. <i>American Journal of Tropical Medicine and Hygiene</i> , <b>2020</b> , 103, 66-73	3.2	6
193	A Primer of Population Genetics and Genomics <b>2020</b> ,		6
192	Study Protocol: A Cross-Sectional Examination of Socio-Demographic and Ecological Determinants of Nutrition and Disease Across Madagascar. <i>Frontiers in Public Health</i> , <b>2020</b> , 8, 500	6	4
191	Reply to Velavan et al.: Polymorphisms of in natural populations: Implications for functional significance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 12613-12614	11.5	3
190	Chimeric dihydrofolate reductases display properties of modularity and biophysical diversity. <i>Protein Science</i> , <b>2019</b> , 28, 1359-1367	6.3	2
189	Limits to Compensatory Mutations: Insights from Temperature-Sensitive Alleles. <i>Molecular Biology and Evolution</i> , <b>2019</b> , 36, 1874-1883	8.3	2
188	Proteostasis Environment Shapes Higher-Order Epistasis Operating on Antibiotic Resistance. <i>Genetics</i> , <b>2019</b> , 212, 565-575	4	13
187	Q & A with Daniel L. Hartl, Recipient of the 2019 Thomas Hunt Morgan Medal. <i>Genetics</i> , <b>2019</b> , 212, 361-363	4	3
186	Cohort Description of the Madagascar Health and Environmental Research-Antongil (MAHERY-Antongil) Study in Madagascar. <i>Frontiers in Nutrition</i> , <b>2019</b> , 6, 109	6.2	2

185	Dramatic Changes in Malaria Population Genetic Complexity in Dielmo and Ndiop, Senegal, Revealed Using Genomic Surveillance. <i>Journal of Infectious Diseases</i> , <b>2018</b> , 217, 622-627	7	19
184	De Novo Mutations Resolve Disease Transmission Pathways in Clonal Malaria. <i>Molecular Biology and Evolution</i> , <b>2018</b> , 35, 1678-1689	8.3	11
183	Modeling the genetic relatedness of Plasmodium falciparum parasites following meiotic recombination and cotransmission. <i>PLoS Computational Biology</i> , <b>2018</b> , 14, e1005923	5	15
182	Mutations in actin-binding protein coronin confer reduced artemisinin susceptibility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 12799-12804	11.5	72
181	Cohort Profile: The Madagascar Health and Environmental Research (MAHERY) study in north-eastern Madagascar. <i>International Journal of Epidemiology</i> , <b>2017</b> , 46, 1747-1748d	7.8	11
180	Genetic relatedness analysis reveals the cotransmission of genetically related Plasmodium falciparum parasites in Thiès, Senegal. <i>Genome Medicine</i> , <b>2017</b> , 9, 5	14.4	29
179	Genome-Wide Association Studies of Drug-Resistance Determinants. <i>Trends in Parasitology</i> , <b>2017</b> , 33, 214-230	6.4	12
178	Genotypic Context and Epistasis in Individuals and Populations. <i>Cell</i> , <b>2016</b> , 166, 279-287	56.2	85
177	Mosquito Vectors and the Globalization of Plasmodium falciparum Malaria. <i>Annual Review of Genetics</i> , <b>2016</b> , 50, 447-465	14.5	33
176	Genetic evidence that the Makira region in northeastern Madagascar is a hotspot of malaria transmission. <i>Malaria Journal</i> , <b>2016</b> , 15, 596	3.6	11
175	A pivot mutation impedes reverse evolution across an adaptive landscape for drug resistance in Plasmodium vivax. <i>Malaria Journal</i> , <b>2016</b> , 15, 40	3.6	13
174	Biophysical principles predict fitness landscapes of drug resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E1470-8	11.5	83
173	Adaptive Landscape by Environment Interactions Dictate Evolutionary Dynamics in Models of Drug Resistance. <i>PLoS Computational Biology</i> , <b>2016</b> , 12, e1004710	5	37
172	A New Take on John Maynard Smith's Concept of Protein Space for Understanding Molecular Evolution. <i>PLoS Computational Biology</i> , <b>2016</b> , 12, e1005046	5	3
171	Neighboring genes for DNA-binding proteins rescue male sterility in Drosophila hybrids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E4200-7	11.5	9
170	Modeling malaria genomics reveals transmission decline and rebound in Senegal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 7067-72	11.5	114
169	Natural selection constrains neutral diversity across a wide range of species. <i>PLoS Biology</i> , <b>2015</b> , 13, e1002112	11.2	187
168	Recurrent bottlenecks in the malaria life cycle obscure signals of positive selection. <i>Parasitology</i> , <b>2015</b> , 142 Suppl 1, S98-S107	2.7	11

167	Clonal outbreak of Plasmodium falciparum infection in eastern Panama. <i>Journal of Infectious Diseases</i> , <b>2015</b> , 211, 1087-96	7	56
166	Methods to Increase the Sensitivity of High Resolution Melting Single Nucleotide Polymorphism Genotyping in Malaria. <i>Journal of Visualized Experiments</i> , <b>2015</b> , e52839	1.6	7
165	Direct Gamete Sequencing Reveals No Evidence for Segregation Distortion in House Mouse Hybrids. <i>PLoS ONE</i> , <b>2015</b> , 10, e0131933	3.7	6
164	COIL: a methodology for evaluating malarial complexity of infection using likelihood from single nucleotide polymorphism data. <i>Malaria Journal</i> , <b>2015</b> , 14, 4	3.6	50
163	Behavioral idiosyncrasy reveals genetic control of phenotypic variability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 6706-11	11.5	113
162	The utility of genomic data for Plasmodium vivax population surveillance. <i>Pathogens and Global Health</i> , <b>2015</b> , 109, 153-61	3.1	7
161	Harnessing evolutionary fitness in Plasmodium falciparum for drug discovery and suppressing resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 799-804	11.5	45
160	Evolutionary History and Population Genetics of Human Malaria Parasites <b>2014</b> , 95-109		3
159	James Franklin Crow. 18 January 1916 – 14 January 2012. <i>Biographical Memoirs of Fellows of the Royal Society</i> , <b>2014</b> , 60, 151-167	0.1	
158	The roles of cis- and trans-regulation in the evolution of regulatory incompatibilities and sexually dimorphic gene expression. <i>Genome Research</i> , <b>2014</b> , 24, 84-95	9.7	47
157	What can we learn from fitness landscapes?. <i>Current Opinion in Microbiology</i> , <b>2014</b> , 21, 51-7	7.9	35
156	Genetic incompatibilities are widespread within species. <i>Nature</i> , <b>2013</b> , 504, 135-7	50.4	136
155	Accessible mutational trajectories for the evolution of pyrimethamine resistance in the malaria parasite Plasmodium vivax. <i>Journal of Molecular Evolution</i> , <b>2013</b> , 77, 81-91	3.1	20
154	DNA-binding specificity changes in the evolution of forkhead transcription factors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 12349-54	11.5	116
153	Genetic surveillance detects both clonal and epidemic transmission of malaria following enhanced intervention in Senegal. <i>PLoS ONE</i> , <b>2013</b> , 8, e60780	3.7	71
152	Population genomics of inversion polymorphisms in Drosophila melanogaster. <i>PLoS Genetics</i> , <b>2012</b> , 8, e1003056	6	121
151	Functional evidence that a recently evolved Drosophila sperm-specific gene boosts sperm competition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 2043-8	11.5	39
150	Novel genes from formation to function. <i>International Journal of Evolutionary Biology</i> , <b>2012</b> , 2012, 821645		5

149	Genomic sequencing of Plasmodium falciparum malaria parasites from Senegal reveals the demographic history of the population. <i>Molecular Biology and Evolution</i> , <b>2012</b> , 29, 3427-39	8.3	46
148	Evolutionary paths to antibiotic resistance under dynamically sustained drug selection. <i>Nature Genetics</i> , <b>2011</b> , 44, 101-5	36.3	496
147	Fitness trade-offs in the evolution of dihydrofolate reductase and drug resistance in Plasmodium falciparum. <i>PLoS ONE</i> , <b>2011</b> , 6, e19636	3.7	30
146	The evolutionary landscape of antifolate resistance in Plasmodium falciparum. <i>Journal of Genetics</i> , <b>2011</b> , 90, 187-90	1.2	22
145	Misfolded proteins impose a dosage-dependent fitness cost and trigger a cytosolic unfolded protein response in yeast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 680-5	11.5	202
144	James F. Crow and the art of teaching and mentoring. <i>Genetics</i> , <b>2011</b> , 189, 1129-33	4	4
143	Compensatory mutations restore fitness during the evolution of dihydrofolate reductase. <i>Molecular Biology and Evolution</i> , <b>2010</b> , 27, 2682-90	8.3	72
142	Geographic structure of Plasmodium vivax: microsatellite analysis of parasite populations from Sri Lanka, Myanmar, and Ethiopia. <i>American Journal of Tropical Medicine and Hygiene</i> , <b>2010</b> , 82, 235-42	3.2	81
141	Adaptive impact of the chimeric gene Quetzalcoatl in Drosophila melanogaster. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 10943-8	11.5	26
140	Colloquium papers: Adaptive landscapes and protein evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107 Suppl 1, 1747-51	11.5	94
139	Epigenetic effects of polymorphic Y chromosomes modulate chromatin components, immune response, and sexual conflict. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 15826-31	11.5	144
138	Fine-scale genetic mapping of a hybrid sterility factor between Drosophila simulans and D. mauritiana: the varied and elusive functions of "speciation genes". <i>BMC Evolutionary Biology</i> , <b>2010</b> , 10, 385	3	16
137	Glycophorin B is the erythrocyte receptor of Plasmodium falciparum erythrocyte-binding ligand, EBL-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 5348-52	11.5	113
136	Stepwise acquisition of pyrimethamine resistance in the malaria parasite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 12025-30	11.5	197
135	Optimization of gene expression by natural selection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 1133-8	11.5	118
134	Cascading transcriptional effects of a naturally occurring frameshift mutation in Saccharomyces cerevisiae. <i>Molecular Ecology</i> , <b>2008</b> , 17, 2985-97	5.7	31
133	Extensive microsatellite diversity in the human malaria parasite Plasmodium vivax. <i>Gene</i> , <b>2008</b> , 410, 105-18	3.8	96
132	Polymorphic Y chromosomes harbor cryptic variation with manifold functional consequences. <i>Science</i> , <b>2008</b> , 319, 91-3	33.3	178

131	Dominance and the evolutionary accumulation of cis- and trans-effects on gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 14471-6	11.5	104
130	Effects of X-linkage and sex-biased gene expression on the rate of adaptive protein evolution in <i>Drosophila</i> . <i>Molecular Biology and Evolution</i> , <b>2008</b> , 25, 1639-50	8.3	92
129	A genome-wide view of the spectrum of spontaneous mutations in yeast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 9272-7	11.5	511
128	Accelerated evolution of resistance in multidrug environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 13977-81	11.5	199
127	Genetic properties influencing the evolvability of gene expression. <i>Science</i> , <b>2007</b> , 317, 118-21	33.3	251
126	A genome-wide map of diversity in <i>Plasmodium falciparum</i> . <i>Nature Genetics</i> , <b>2007</b> , 39, 113-9	36.3	265
125	Prevalence of positive selection among nearly neutral amino acid replacements in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 6504-10	11.5	117
124	A sex-ratio meiotic drive system in <i>Drosophila simulans</i> . II: an X-linked distorter. <i>PLoS Biology</i> , <b>2007</b> , 5, e293	9.7	113
123	A sex-ratio meiotic drive system in <i>Drosophila simulans</i> . I: an autosomal suppressor. <i>PLoS Biology</i> , <b>2007</b> , 5, e292	9.7	111
122	Mutational reversions during adaptive protein evolution. <i>Molecular Biology and Evolution</i> , <b>2007</b> , 24, 16083-90	10	40
121	A portrait of copy-number polymorphism in <i>Drosophila melanogaster</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 19920-5	11.5	118
120	Population structure and transmission dynamics of <i>Plasmodium vivax</i> in rural Amazonia. <i>Journal of Infectious Diseases</i> , <b>2007</b> , 195, 1218-26	7	116
119	Genomic heterogeneity in the density of noncoding single-nucleotide and microsatellite polymorphisms in <i>Plasmodium falciparum</i> . <i>Gene</i> , <b>2007</b> , 387, 1-6	3.8	7
118	Epigenetic memory at malaria virulence genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 899-902	11.5	178
117	Mud sticks: on the alleged falsification of Mendel's data. <i>Genetics</i> , <b>2007</b> , 175, 975-9	4	25
116	Position-specific polymorphism of <i>Plasmodium falciparum</i> Stuttering motif in a PHISTc PFI1780w. <i>Experimental Parasitology</i> , <b>2006</b> , 114, 126-8	2.1	5
115	Duplication, gene conversion, and genetic diversity in the species-specific acyl-CoA synthetase gene family of <i>Plasmodium falciparum</i> . <i>Molecular and Biochemical Parasitology</i> , <b>2006</b> , 150, 10-24	1.9	40
114	Darwinian evolution can follow only very few mutational paths to fitter proteins. <i>Science</i> , <b>2006</b> , 312, 111-4	33.3	964

113	An equivalence principle for the incorporation of favorable mutations in asexual populations. <i>Science</i> , <b>2006</b> , 311, 1615-7	33.3	177
112	The evolution of the novel <i>Sdic</i> gene cluster in <i>Drosophila melanogaster</i> . <i>Gene</i> , <b>2006</b> , 376, 174-83	3.8	17
111	Variable SNP density in aspartyl-protease genes of the malaria parasite <i>Plasmodium falciparum</i> . <i>Gene</i> , <b>2006</b> , 376, 163-73	3.8	4
110	Ecological and evolutionary genomics of <i>Saccharomyces cerevisiae</i> . <i>Molecular Ecology</i> , <b>2006</b> , 15, 575-91	5.7	83
109	Missense meanderings in sequence space: a biophysical view of protein evolution. <i>Nature Reviews Genetics</i> , <b>2005</b> , 6, 678-87	30.1	490
108	RATES OF DIVERGENCE IN GENE EXPRESSION PROFILES OF PRIMATES, MICE, AND FLIES: STABILIZING SELECTION AND VARIABILITY AMONG FUNCTIONAL CATEGORIES. <i>Evolution; International Journal of Organic Evolution</i> , <b>2005</b> , 59, 126-137	3.8	114
107	Compensatory cis-trans evolution and the dysregulation of gene expression in interspecific hybrids of <i>Drosophila</i> . <i>Genetics</i> , <b>2005</b> , 171, 1813-22	4	151
106	Evolution of proteins and gene expression levels are coupled in <i>Drosophila</i> and are independently associated with mRNA abundance, protein length, and number of protein-protein interactions. <i>Molecular Biology and Evolution</i> , <b>2005</b> , 22, 1345-54	8.3	208
105	Evolution of noncoding and silent coding sites in the <i>Plasmodium falciparum</i> and <i>Plasmodium reichenowi</i> genomes. <i>Molecular Biology and Evolution</i> , <b>2005</b> , 22, 1621-6	8.3	17
104	Genome Organization and Gene Expression Shape the Distribution of Transposable Elements in the Euchromatin of <i>Drosophila Melanogaster</i> . <i>PLoS Genetics</i> , <b>2005</b> , preprint, e210	6	
103	Gene expression profiling in evolutionary genetics <b>2004</b> , 74-93		
102	cis-Regulatory and protein evolution in orthologous and duplicate genes. <i>Genome Research</i> , <b>2004</b> , 14, 1530-6	9.7	106
101	Anomalies in the expression profile of interspecific hybrids of <i>Drosophila melanogaster</i> and <i>Drosophila simulans</i> . <i>Genome Research</i> , <b>2004</b> , 14, 373-9	9.7	118
100	The origin of malaria: mixed messages from genetic diversity. <i>Nature Reviews Microbiology</i> , <b>2004</b> , 2, 15-22	2.2	82
99	Rapid evolution of male-biased gene expression in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 9894-9	11.5	245
98	Origin and Evolution of a New Gene Expressed in the <i>Drosophila</i> Sperm Axoneme. <i>Genetica</i> , <b>2003</b> , 118, 233-244	1.5	29
97	Bayesian analysis suggests that most amino acid replacements in <i>Drosophila</i> are driven by positive selection. <i>Journal of Molecular Evolution</i> , <b>2003</b> , 57 Suppl 1, S154-64	3.1	104
96	Evidence for <i>S. cerevisiae</i> fermentation in ancient wine. <i>Journal of Molecular Evolution</i> , <b>2003</b> , 57 Suppl 1, S226-32	3.1	152



95	DNA sequence artifacts and the estimation of time to the most recent common ancestor (TMRCA) of <i>Plasmodium falciparum</i> . <i>Molecular and Biochemical Parasitology</i> , <b>2003</b> , 130, 143-7	1.9	8
94	Genetic dissection of hybrid incompatibilities between <i>Drosophila simulans</i> and <i>D. mauritiana</i> . III. Heterogeneous accumulation of hybrid incompatibilities, degree of dominance, and implications for Haldane's rule. <i>Evolution; International Journal of Organic Evolution</i> , <b>2003</b> , 57, 2580-98	3.8	76
93	Sex-dependent gene expression and evolution of the <i>Drosophila</i> transcriptome. <i>Science</i> , <b>2003</b> , 300, 1742-53	3.3	503
92	Maximum likelihood and Bayesian methods for estimating the distribution of selective effects among classes of mutations using DNA polymorphism data. <i>Theoretical Population Biology</i> , <b>2003</b> , 63, 91-103	1.2	38
91	Population genetic variation in genome-wide gene expression. <i>Molecular Biology and Evolution</i> , <b>2003</b> , 20, 955-63	8.3	171
90	GENETIC DISSECTION OF HYBRID INCOMPATIBILITIES BETWEEN <i>DROSOPHILA SIMULANS</i> AND <i>D. MAURITIANA</i> . III. HETEROGENEOUS ACCUMULATION OF HYBRID INCOMPATIBILITIES, DEGREE OF DOMINANCE, AND IMPLICATIONS FOR HALDANE'S RULE. <i>Evolution; International Journal of Organic Evolution</i> , <b>2003</b> , 57, 2580	3.8	64
89	Gene conversion as a source of nucleotide diversity in <i>Plasmodium falciparum</i> . <i>Molecular Biology and Evolution</i> , <b>2003</b> , 20, 726-34	8.3	47
88	Genetic diversity in yeast assessed with whole-genome oligonucleotide arrays. <i>Genetics</i> , <b>2003</b> , 163, 79-89	4	148
87	Genetic dissection of hybrid incompatibilities between <i>Drosophila simulans</i> and <i>D. mauritiana</i> . I. Differential accumulation of hybrid male sterility effects on the X and autosomes. <i>Genetics</i> , <b>2003</b> , 164, 1383-97	4	116
86	Genetic dissection of hybrid incompatibilities between <i>Drosophila simulans</i> and <i>D. mauritiana</i> . II. Mapping hybrid male sterility loci on the third chromosome. <i>Genetics</i> , <b>2003</b> , 164, 1399-418	4	66
85	The paradoxical population genetics of <i>Plasmodium falciparum</i> . <i>Trends in Parasitology</i> , <b>2002</b> , 18, 266-72	6.4	40
84	The cost of inbreeding in <i>Arabidopsis</i> . <i>Nature</i> , <b>2002</b> , 416, 531-4	50.4	251
83	Selection for short introns in highly expressed genes. <i>Nature Genetics</i> , <b>2002</b> , 31, 415-8	36.3	390
82	Pathway Processor: a tool for integrating whole-genome expression results into metabolic networks. <i>Genome Research</i> , <b>2002</b> , 12, 1121-6	9.7	81
81	Patterns of insertion and deletion in contrasting chromatin domains. <i>Molecular Biology and Evolution</i> , <b>2002</b> , 19, 2211-25	8.3	69
80	A maximum likelihood method for analyzing pseudogene evolution: implications for silent site evolution in humans and rodents. <i>Molecular Biology and Evolution</i> , <b>2002</b> , 19, 110-7	8.3	55
79	Excess polymorphisms in genes for membrane proteins in <i>Plasmodium falciparum</i> . <i>Science</i> , <b>2002</b> , 298, 216-8	33.3	73
78	Bayesian analysis of gene expression levels: statistical quantification of relative mRNA level across multiple strains or treatments. <i>Genome Biology</i> , <b>2002</b> , 3, RESEARCH0071	18.3	128



77	A single mode of canalization. <i>Trends in Ecology and Evolution</i> , <b>2002</b> , 17, 468-473	10.9	180
76	Efficient mobilization of mariner in vivo requires multiple internal sequences. <i>Genetics</i> , <b>2002</b> , 160, 519-26	4	21
75	Unexpected stability of mariner transgenes in <i>Drosophila</i> . <i>Genetics</i> , <b>2002</b> , 160, 527-35	4	27
74	Recent origin of <i>Plasmodium falciparum</i> from a single progenitor. <i>Science</i> , <b>2001</b> , 293, 482-4	33.3	152
73	Genomic gigantism: DNA loss is slow in mountain grasshoppers. <i>Molecular Biology and Evolution</i> , <b>2001</b> , 18, 246-53	8.3	100
72	Chromosomal effects of rapid gene evolution in <i>Drosophila melanogaster</i> . <i>Science</i> , <b>2001</b> , 291, 128-30	33.3	40
71	Discovery of the transposable element mariner. <i>Genetics</i> , <b>2001</b> , 157, 471-6	4	45
70	Patterns of DNA sequence variation suggest the recent action of positive selection in the janus-ocnus region of <i>Drosophila simulans</i> . <i>Genetics</i> , <b>2001</b> , 159, 647-57	4	42
69	Directional selection and the site-frequency spectrum. <i>Genetics</i> , <b>2001</b> , 159, 1779-88	4	139
68	Molecular melodies in high and low C. <i>Nature Reviews Genetics</i> , <b>2000</b> , 1, 145-9	30.1	74
67	The kinetics of transposable element autoregulation. <i>Genetica</i> , <b>2000</b> , 108, 229-37	1.5	11
66	Post-genomics and the neutral theory: variation and conservation in the tumor necrosis factor-alpha promoter. <i>Gene</i> , <b>2000</b> , 261, 19-25	3.8	9
65	Evidence for DNA loss as a determinant of genome size. <i>Science</i> , <b>2000</b> , 287, 1060-2	33.3	280
64	Regulatory potential of nonautonomous mariner elements and subfamily crosstalk <b>2000</b> , 79-85		2
63	Self-inflicted wounds, template-directed gap repair and a recombination hotspot. Effects of the mariner transposase. <i>Genetics</i> , <b>2000</b> , 154, 647-56	4	28
62	Deletion of a conserved regulatory element in the <i>Drosophila Adh</i> gene leads to increased alcohol dehydrogenase activity but also delays development. <i>Genetics</i> , <b>2000</b> , 156, 219-27	4	26
61	reply: How was the Sdic gene fixed?. <i>Nature</i> , <b>1999</b> , 400, 520-520	50.4	3
60	Regulatory potential of nonautonomous mariner elements and subfamily crosstalk <b>1999</b> , 107, 79-85		6

59	Oviposition-site preference in <i>Drosophila</i> following interspecific gene transfer of the Alcohol dehydrogenase locus. <i>Behavior Genetics</i> , <b>1999</b> , 29, 199-204	3.2	10
58	Genome size as a mutation-selection-drift process. <i>Genes and Genetic Systems</i> , <b>1999</b> , 74, 201-7	1.4	17
57	Analysis of the type 1 pilin gene cluster <i>fim</i> in <i>Salmonella</i> : its distinct evolutionary histories in the 5' and 3' regions. <i>Journal of Bacteriology</i> , <b>1999</b> , 181, 1301-8	3.5	28
56	Pattern of chromosomal localization of the Hoppel transposable element family in the <i>Drosophila melanogaster</i> subgroup. <i>Chromosome Research</i> , <b>1998</b> , 6, 385-95	4.4	6
55	Diversifying selection governs sequence polymorphism in the major adhesin proteins <i>fimA</i> , <i>papA</i> , and <i>sfaA</i> of <i>Escherichia coli</i> . <i>Journal of Molecular Evolution</i> , <b>1998</b> , 47, 258-67	3.1	30
54	Selective sweep of a newly evolved sperm-specific gene in <i>Drosophila</i> . <i>Nature</i> , <b>1998</b> , 396, 572-5	50.4	229
53	Towards a theory of evolutionary adaptation. <i>Genetica</i> , <b>1998</b> , 102/103, 525-533	1.5	67
52	Cytoplasmic dynein intermediate-chain isoforms with different targeting properties created by tissue-specific alternative splicing. <i>Molecular and Cellular Biology</i> , <b>1998</b> , 18, 6816-25	4.8	60
51	Factors contributing to the hybrid dysgenesis syndrome in <i>Drosophila virilis</i> . <i>Genetical Research</i> , <b>1998</b> , 71, 109-17	1.1	44
50	Chromosomal regions specific to pathogenic isolates of <i>Escherichia coli</i> have a phylogenetically clustered distribution. <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 1159-65	3.5	158
49	<i>Salmonella</i> virulence plasmid. Modular acquisition of the <i>spv</i> virulence region by an F-plasmid in <i>Salmonella enterica</i> subspecies I and insertion into the chromosome of subspecies II, IIIa, IV and VII isolates. <i>Genetics</i> , <b>1998</b> , 149, 1183-90	4	72
48	Modern thoughts on an ancient mariner: function, evolution, regulation. <i>Annual Review of Genetics</i> , <b>1997</b> , 31, 337-58	14.5	203
47	Trash DNA is what gets thrown away: high rate of DNA loss in <i>Drosophila</i> . <i>Gene</i> , <b>1997</b> , 205, 279-89	3.8	62
46	What restricts the activity of mariner-like transposable elements. <i>Trends in Genetics</i> , <b>1997</b> , 13, 197-201	8.5	127
45	Regulation of the transposable element mariner. <i>Genetica</i> , <b>1997</b> , 100, 177-184	1.5	38
44	A framework physical map of <i>Drosophila virilis</i> based on P1 clones: applications in genome evolution. <i>Chromosoma</i> , <b>1997</b> , 106, 99-107	2.8	37
43	Regulation of the transposable element mariner. <i>Contemporary Issues in Genetics and Evolution</i> , <b>1997</b> , 177-184		2
42	Discordant rates of chromosome evolution in the <i>Drosophila virilis</i> species group. <i>Genetics</i> , <b>1997</b> , 147, 223-30	4	29

41	Identification of Porto-1, a new repeated sequence that localises close to the centromere of chromosome 2 of <i>Drosophila melanogaster</i> . <i>Chromosoma</i> , <b>1996</b> , 105, 211-222	2.8	2
40	Identification of Porto-1, a new repeated sequence that localises close to the centromere of chromosome 2 of <i>Drosophila melanogaster</i> . <i>Chromosoma</i> , <b>1996</b> , 105, 211-222	2.8	9
39	Compensatory nearly neutral mutations: selection without adaptation. <i>Journal of Theoretical Biology</i> , <b>1996</b> , 182, 303-9	2.3	111
38	EST! EST!! EST!!!. <i>BioEssays</i> , <b>1996</b> , 18, 1021-3	4.1	4
37	Reconstructing the ancient mariners of humans. <i>Nature Genetics</i> , <b>1996</b> , 12, 360-1	36.3	34
36	High intrinsic rate of DNA loss in <i>Drosophila</i> . <i>Nature</i> , <b>1996</b> , 384, 346-9	50.4	322
35	Germline transformation of <i>Drosophila virilis</i> mediated by the transposable element hobo. <i>Genetics</i> , <b>1996</b> , 142, 173-7	4	43
34	Germline transformation of <i>Drosophila virilis</i> with the transposable element mariner. <i>Genetics</i> , <b>1996</b> , 143, 365-74	4	45
33	Mosaic structure of plasmids from natural populations of <i>Escherichia coli</i> . <i>Genetics</i> , <b>1996</b> , 143, 1091-1004	4	101
32	Reduced germline mobility of a mariner vector containing exogenous DNA: effect of size or site?. <i>Genetics</i> , <b>1996</b> , 143, 1299-306	4	22
31	Transgene Coplacement and high efficiency site-specific recombination with the Cre/loxP system in <i>Drosophila</i> . <i>Genetics</i> , <b>1996</b> , 144, 715-26	4	144
30	Subunit interactions in the mariner transposase. <i>Genetics</i> , <b>1996</b> , 144, 1087-95	4	45
29	P1 clones from <i>Drosophila melanogaster</i> as markers to study the chromosomal evolution of Muller's A element in two species of the obscure group of <i>Drosophila</i> . <i>Chromosoma</i> , <b>1995</b> , 104, 129-36	2.8	40
28	Forensic DNA typing dispute. <i>Nature</i> , <b>1994</b> , 372, 398-9	50.4	7
27	GENETIC CONTROL OF THE RATE OF EMBRYONIC DEVELOPMENT: SELECTION FOR FASTER DEVELOPMENT AT ELEVATED TEMPERATURES. <i>Evolution; International Journal of Organic Evolution</i> , <b>1993</b> , 47, 1625-1631	3.8	19
26	Use of polymerase chain reaction to amplify segments outside boundaries of known sequences. <i>Methods in Enzymology</i> , <b>1993</b> , 218, 309-21	1.7	58
25	Erratum. <i>Science</i> , <b>1992</b> , 255, 1054-5	33.3	7
24	Molecular considerations in the evolution of bacterial genes. <i>Journal of Molecular Evolution</i> , <b>1991</b> , 33, 241-50	3.1	36

23	Evidence for interspecific transfer of the transposable element mariner between <i>Drosophila</i> and <i>Zaprionus</i> . <i>Journal of Molecular Evolution</i> , <b>1991</b> , 33, 514-24	3.1	133
22	Insertion sites of the transposable element mariner are fixed in the genome of <i>Drosophila sechellia</i> . <i>Journal of Molecular Evolution</i> , <b>1991</b> , 33, 450-6	3.1	28
21	Inference of selection and recombination from nucleotide sequence data*. <i>Journal of Evolutionary Biology</i> , <b>1991</b> , 4, 519-532	2.3	14
20	Inverse polymerase chain reaction. <i>Nature Biotechnology</i> , <b>1990</b> , 8, 759-60	44.5	38
19	Metabolic flux and fitness. <i>Genetics</i> , <b>1987</b> , 115, 25-31	4	181
18	Distribution and abundance of insertion sequences among natural isolates of <i>Escherichia coli</i> . <i>Genetics</i> , <b>1987</b> , 115, 51-63	4	112
17	Fitness as a function of beta-galactosidase activity in <i>Escherichia coli</i> . <i>Genetical Research</i> , <b>1986</b> , 48, 1-8	1.1	77
16	Distribution of transposable elements in prokaryotes. <i>Theoretical Population Biology</i> , <b>1986</b> , 30, 1-16	1.2	34
15	BIOTYPING CONFIRMS A NEARLY CLONAL POPULATION STRUCTURE IN <i>ESCHERICHIA COLI</i> . <i>Evolution; International Journal of Organic Evolution</i> , <b>1986</b> , 40, 1-12	3.8	23
14	Coupled instability of two X-linked genes in <i>Drosophila mauritiana</i> : germinal and somatic mutability. <i>Genetics</i> , <b>1985</b> , 111, 57-65	4	37
13	Joint distribution of insertion elements IS4 and IS5 in natural isolates of <i>Escherichia coli</i> . <i>Genetics</i> , <b>1985</b> , 111, 219-31	4	14
12	Limits of adaptation: the evolution of selective neutrality. <i>Genetics</i> , <b>1985</b> , 111, 655-74	4	194
11	Potential for hitchhiking in the <i>eda-edd-zwf</i> gene cluster of <i>Escherichia coli</i> . <i>Genetical Research</i> , <b>1984</b> , 43, 229-39	1.1	6
10	Accessory DNAs in the bacterial gene pool: playground for coevolution. <i>Novartis Foundation Symposium</i> , <b>1984</b> , 102, 233-45		5
9	Specific deletion occurring in the directed evolution of 6-phosphogluconate dehydrogenase in <i>Escherichia coli</i> . <i>Genetics</i> , <b>1984</b> , 108, 765-72	4	6
8	Evolution of transposons: natural selection for Tn5 in <i>Escherichia coli</i> K12. <i>Genetics</i> , <b>1983</b> , 103, 581-92	4	67
7	Functional effects of PGI allozymes in <i>Escherichia coli</i> . <i>Genetics</i> , <b>1983</b> , 105, 1-18	4	48
6	Defective Histone Transition during Spermiogenesis in Heterozygous SEGREGATION DISTORTER Males of <i>DROSOPHILA MELANOGASTER</i> . <i>Genetics</i> , <b>1982</b> , 101, 57-69	4	32

5	The experimental assessment of fitness in <i>Drosophila</i> . I. Comparative measures of competitive reproductive success. <i>Genetics</i> , <b>1982</b> , 102, 455-66	4	27
4	USING FREQUENCY DISTRIBUTIONS TO DETECT SELECTION: INVERSION POLYMORPHISMS IN <i>DROSOPHILA PSEUDOOBSCURA</i> . <i>Evolution; International Journal of Organic Evolution</i> , <b>1981</b> , 35, 1243-1246	38	2
3	Selective neutrality of 6PGD allozymes in <i>E. coli</i> and the effects of genetic background. <i>Genetics</i> , <b>1980</b> , 96, 801-17	4	145
2	Population Dynamics of the Segregation Distorter Polymorphism of <i>DROSOPHILA MELANOGASTER</i> . <i>Genetics</i> , <b>1978</b> , 89, 171-92	4	114
1	Proteostasis environment shapes higher-order epistasis operating on antibiotic resistance		1