Michael Lynch

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3186660/publications.pdf

Version: 2024-02-01

173 papers 28,376 citations

72 h-index 158 g-index

186 all docs

186 docs citations

186 times ranked 24524 citing authors

#	Article	IF	CITATIONS
1	Preservation of Duplicate Genes by Complementary, Degenerative Mutations. Genetics, 1999, 151, 1531-1545.	2.9	3,147
2	The Origins of Genome Complexity. Science, 2003, 302, 1401-1404.	12.6	1,436
3	The Probability of Duplicate Gene Preservation by Subfunctionalization. Genetics, 2000, 154, 459-473.	2.9	1,372
4	The Rate and Molecular Spectrum of Spontaneous Mutations in <i>Arabidopsis thaliana</i> . Science, 2010, 327, 92-94.	12.6	1,004
5	Estimation of Pairwise Relatedness With Molecular Markers. Genetics, 1999, 152, 1753-1766.	2.9	966
6	Evolution of the mutation rate. Trends in Genetics, 2010, 26, 345-352.	6.7	885
7	Rate, molecular spectrum, and consequences of human mutation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 961-968.	7.1	692
8	The frailty of adaptive hypotheses for the origins of organismal complexity. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 8597-8604.	7.1	689
9	A genome-wide view of the spectrum of spontaneous mutations in yeast. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9272-9277.	7.1	649
10	Genetic drift, selection and the evolution of the mutation rate. Nature Reviews Genetics, 2016, 17, 704-714.	16.3	648
11	THE GENETIC INTERPRETATION OF INBREEDING DEPRESSION AND OUTBREEDING DEPRESSION. Evolution; International Journal of Organic Evolution, 1991, 45, 622-629.	2.3	574
12	Mutation Pressure and the Evolution of Organelle Genomic Architecture. Science, 2006, 311, 1727-1730.	12.6	490
13	EVOLUTION AND EXTINCTION IN A CHANGING ENVIRONMENT: A QUANTITATIVEâ€GENETIC ANALYSIS. Evolution; International Journal of Organic Evolution, 1995, 49, 151-163.	2.3	470
14	Evolution and Selection of Quantitative Traits. , 2018, , .		469
15	The Probability of Preservation of a Newly Arisen Gene Duplicate. Genetics, 2001, 159, 1789-1804.	2.9	440
16	Comparing Mutational Variabilities. Genetics, 1996, 143, 1467-1483.	2.9	413
17	The bioenergetic costs of a gene. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15690-15695.	7.1	405
18	MUTATION LOAD AND THE SURVIVAL OF SMALL POPULATIONS. Evolution; International Journal of Organic Evolution, 1990, 44, 1725-1737.	2.3	397

#	Article	IF	Citations
19	Drift-barrier hypothesis and mutation-rate evolution. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18488-18492.	7.1	355
20	Estimate of the genomic mutation rate deleterious to overall fitness in E. coll. Nature, 1996, 381, 694-696.	27.8	352
21	The Origins of Eukaryotic Gene Structure. Molecular Biology and Evolution, 2006, 23, 450-468.	8.9	348
22	METHODS FOR THE ANALYSIS OF COMPARATIVE DATA IN EVOLUTIONARY BIOLOGY. Evolution; International Journal of Organic Evolution, 1991, 45, 1065-1080.	2.3	334
23	PHENOTYPIC EVOLUTION BY NEUTRAL MUTATION. Evolution; International Journal of Organic Evolution, 1986, 40, 915-935.	2.3	325
24	PERSPECTIVE: SPONTANEOUS DELETERIOUS MUTATION. Evolution; International Journal of Organic Evolution, 1999, 53, 645-663.	2.3	317
25	Predation, competition, and zooplankton community structure: An experimental study1,2. Limnology and Oceanography, 1979, 24, 253-272.	3.1	310
26	MUTATIONAL MELTDOWNS IN SEXUAL POPULATIONS. Evolution; International Journal of Organic Evolution, 1995, 49, 1067-1080.	2.3	300
27	The rate of polygenic mutation. Genetical Research, 1988, 51, 137-148.	0.9	271
28	The altered evolutionary trajectories of gene duplicates. Trends in Genetics, 2004, 20, 544-549.	6.7	267
29	The evolution of genetic networks by non-adaptive processes. Nature Reviews Genetics, 2007, 8, 803-813.	16.3	266
30	Captive breeding and the genetic fitness of natural populations. Conservation Genetics, 2001, 2, 363-378.	1.5	262
31	Intron evolution as a population-genetic process. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 6118-6123.	7.1	260
32	High Direct Estimate of the Mutation Rate in the Mitochondrial Genome of <i>Caenorhabditis elegans</i>	12.6	259
33	The evolutionary demography of duplicate genes. Journal of Structural and Functional Genomics, 2003, 3, 35-44.	1.2	249
34	The critical effective size for a genetically secure population. Animal Conservation, 1998, 1, 70-72.	2.9	206
35	Streamlining and Simplification of Microbial Genome Architecture. Annual Review of Microbiology, 2006, 60, 327-349.	7.3	204
36	Perspective: Spontaneous Deleterious Mutation. Evolution; International Journal of Organic Evolution, 1999, 53, 645.	2.3	200

#	Article	IF	CITATIONS
37	THE QUANTITATIVE AND MOLECULAR GENETIC ARCHITECTURE OF A SUBDIVIDED SPECIES. Evolution; International Journal of Organic Evolution, 1999, 53, 100-110.	2.3	192
38	THE FITNESS EFFECTS OF SPONTANEOUS MUTATIONS IN CAENORHABDITIS ELEGANS. Evolution; International Journal of Organic Evolution, 2000, 54, 1234-1246.	2.3	178
39	ECOLOGICAL GENETICS OF <i>DAPHNIA PULEX</i> . Evolution; International Journal of Organic Evolution, 1983, 37, 358-374.	2.3	175
40	Antibiotic treatment enhances the genome-wide mutation rate of target cells. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2498-505.	7.1	172
41	Maintenance and Loss of Duplicated Genes by Dosage Subfunctionalization. Molecular Biology and Evolution, 2015, 32, 2141-2148.	8.9	160
42	Population-genomic insights into the evolutionary origin and fate of obligately asexual <i>Daphnia pulex</i> . Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15740-15745.	7.1	159
43	GENOMICS: Gene Duplication and Evolution. Science, 2002, 297, 945-947.	12.6	157
44	The evolutionary demography of duplicate genes. Journal of Structural and Functional Genomics, 2003, 3, 35-44.	1.2	150
45	SPONTANEOUS MUTATIONS FOR LIFEâ€HISTORY CHARACTERS IN AN OBLIGATE PARTHENOGEN. Evolution; International Journal of Organic Evolution, 1985, 39, 804-818.	2.3	142
46	The selective advantage of reaction norms for environmental tolerance. Journal of Evolutionary Biology, 1992, 5, 41-59.	1.7	142
47	The Rate of Spontaneous Mutation for Life-History Traits in Caenorhabditis elegans. Genetics, 1999, 151, 119-129.	2.9	142
48	The Lower Bound to the Evolution of Mutation Rates. Genome Biology and Evolution, 2011, 3, 1107-1118.	2.5	139
49	MUTATION AND EXTINCTION: THE ROLE OF VARIABLE MUTATIONAL EFFECTS, SYNERGISTIC EPISTASIS, BENEFICIAL MUTATIONS, AND DEGREE OF OUTCROSSING. Evolution; International Journal of Organic Evolution, 1997, 51, 1363-1371.	2.3	132
50	Asymmetric Context-Dependent Mutation Patterns Revealed through Mutation–Accumulation Experiments. Molecular Biology and Evolution, 2015, 32, 1672-1683.	8.9	130
51	The Spontaneous Mutation Rate in the Fission Yeast <i>Schizosaccharomyces pombe</i> . Genetics, 2015, 201, 737-744.	2.9	127
52	Deleterious mutation accumulation in organelle genomes. Genetica, 1998, 102/103, 29-39.	1,1	126
53	Evolutionary determinants of genome-wide nucleotide composition. Nature Ecology and Evolution, 2018, 2, 237-240.	7.8	126
54	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

#	Article	IF	CITATIONS
55	Clonal polymorphism and high heterozygosity in the celibate genome of the Amazon molly. Nature Ecology and Evolution, 2018, 2, 669-679.	7.8	117
56	The Repatterning of Eukaryotic Genomes by Random Genetic Drift. Annual Review of Genomics and Human Genetics, 2011, 12, 347-366.	6.2	114
57	The Consequences of Fluctuating Selection for Isozyme Polymorphisms in Daphnia. Genetics, 1987, 115, 657-669.	2.9	113
58	Estimation of Nucleotide Diversity, Disequilibrium Coefficients, and Mutation Rates from High-Coverage Genome-Sequencing Projects. Molecular Biology and Evolution, 2008, 25, 2409-2419.	8.9	112
59	Differential retention and divergent resolution of duplicate genes following whole-genome duplication. Genome Research, 2014, 24, 1665-1675.	5.5	111
60	Evolutionary cell biology: Two origins, one objective. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16990-16994.	7.1	108
61	Adaptive and demographic responses of plankton populations to environmental change. Limnology and Oceanography, 1991, 36, 1301-1312.	3.1	105
62	The Cellular, Developmental and Population-Genetic Determinants of Mutation-Rate Evolution. Genetics, 2008, 180, 933-943.	2.9	102
63	The landscape of transcription errors in eukaryotic cells. Science Advances, 2017, 3, e1701484.	10.3	102
64	Population-Genetic Inference from Pooled-Sequencing Data. Genome Biology and Evolution, 2014, 6, 1210-1218.	2.5	101
65	Genetic Slippage in Response to Sex. American Naturalist, 1994, 144, 242-261.	2.1	100
66	High mutational rates of large-scale duplication and deletion in <i>Daphnia pulex</i> . Genome Research, 2016, 26, 60-69.	5.5	99
67	THE LIMITS TO LIFE HISTORY EVOLUTION IN DAPHNIA. Evolution; International Journal of Organic Evolution, 1984, 38, 465-482.	2.3	98
68	A New Reference Genome Assembly for the Microcrustacean <i>Daphnia pulex</i> . G3: Genes, Genomes, Genetics, 2017, 7, 1405-1416.	1.8	95
69	THE COVARIANCE STRUCTURE OF LIFEâ€HISTORY CHARACTERS IN <i>DAPHNIA PULEX</i> International Journal of Organic Evolution, 1991, 45, 1081-1090.	2.3	94
70	Large-scale detection of in vivo transcription errors. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18584-18589.	7.1	94
71	Mutation and Human Exceptionalism: Our Future Genetic Load. Genetics, 2016, 202, 869-875.	2.9	92
72	Estimation of Allele Frequencies From High-Coverage Genome-Sequencing Projects. Genetics, 2009, 182, 295-301.	2.9	89

#	Article	IF	Citations
73	Evolution of the Insertion-Deletion Mutation Rate Across the Tree of Life. G3: Genes, Genomes, Genetics, 2016, 6, 2583-2591.	1.8	89
74	mlRho – a program for estimating the population mutation and recombination rates from shotgunâ€sequenced diploid genomes. Molecular Ecology, 2010, 19, 277-284.	3.9	88
75	Genotype Calling from Population-Genomic Sequencing Data. G3: Genes, Genomes, Genetics, 2017, 7, 1393-1404.	1.8	84
76	Evolutionary meandering of intermolecular interactions along the drift barrier. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E30-8.	7.1	82
77	Genome-Wide Biases in the Rate and Molecular Spectrum of Spontaneous Mutations in <i>Vibrio cholerae</i> and <i>Vibrio fischeri</i> . Molecular Biology and Evolution, 2017, 34, 93-109.	8.9	81
78	THE GENETIC STRUCTURE OF A CYCLICAL PARTHENOGEN. Evolution; International Journal of Organic Evolution, 1984, 38, 186-203.	2.3	80
79	Evolutionary diversification of the multimeric states of proteins. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2821-8.	7.1	78
80	The Evolution of Multimeric Protein Assemblages. Molecular Biology and Evolution, 2012, 29, 1353-1366.	8.9	75
81	The Rate and Molecular Spectrum of Spontaneous Mutations in the GC-Rich Multichromosome Genome of <i>Burkholderia cenocepacia</i> . Genetics, 2015, 200, 935-946.	2.9	75
82	Addressing ecological effects of radiation on populations and ecosystems to improve protection of the environment against radiation: Agreed statements from a Consensus Symposium. Journal of Environmental Radioactivity, 2016, 158-159, 21-29.	1.7	75
83	QUANTITATIVE GENETIC VARIATION IN DAPHNIA: TEMPORAL CHANGES IN GENETIC ARCHITECTURE. Evolution; International Journal of Organic Evolution, 2000, 54, 1502-1509.	2.3	73
84	THE DISTRIBUTION OF LIFEâ€HISTORY VARIATION IN THE <i>DAPHNIA PULEX</i> COMPLEX. Evolution; International Journal of Organic Evolution, 1989, 43, 1724-1736.	2.3	71
85	PHYLOGENETIC HYPOTHESES UNDER THE ASSUMPTION OF NEUTRAL QUANTITATIVEâ€GENETIC VARIATION. Evolution; International Journal of Organic Evolution, 1989, 43, 1-17.	2.3	69
86	Messenger RNA Surveillance and the Evolutionary Proliferation of Introns. Molecular Biology and Evolution, 2003, 20, 563-571.	8.9	69
87	Localization of the Genetic Determinants of Meiosis Suppression in <i>Daphnia pulex</i> . Genetics, 2008, 180, 317-327.	2.9	69
88	MUTATION, SELECTION, AND THE MAINTENANCE OF LIFE-HISTORY VARIATION IN A NATURAL POPULATION. Evolution; International Journal of Organic Evolution, 1998, 52, 727-733.	2.3	68
89	Insights into Three Whole-Genome Duplications Gleaned from the <i>Paramecium caudatum </i> Genome Sequence. Genetics, 2014, 197, 1417-1428.	2.9	67
90	PATTERNS OF GENETIC ARCHITECTURE FOR LIFE-HISTORY TRAITS AND MOLECULAR MARKERS IN A SUBDIVIDED SPECIES. Evolution; International Journal of Organic Evolution, 2001, 55, 1753-1761.	2.3	66

#	Article	IF	CITATIONS
91	The Rate of Establishment of Complex Adaptations. Molecular Biology and Evolution, 2010, 27, 1404-1414.	8.9	66
92	Title is missing!. Conservation Genetics, 2000, 1, 263-269.	1.5	64
93	Deciphering the Evolutionary History of Open and Closed Mitosis. Current Biology, 2014, 24, R1099-R1103.	3.9	64
94	Mutation Rate, Spectrum, Topology, and Context-Dependency in the DNA Mismatch Repair-Deficient Pseudomonas fluorescens ATCC948. Genome Biology and Evolution, 2015, 7, 262-271.	2.5	62
95	The Evolution of Transcription-Initiation Sites. Molecular Biology and Evolution, 2005, 22, 1137-1146.	8.9	60
96	Membranes, energetics, and evolution across the prokaryote-eukaryote divide. ELife, 2017, 6, .	6.0	60
97	Recommendations for improving statistical inference in population genomics. PLoS Biology, 2022, 20, e3001669.	5.6	60
98	Estimating genetic correlations in natural populations. Genetical Research, 1999, 74, 255-264.	0.9	58
99	Background Mutational Features of the Radiation-Resistant Bacterium <i>Deinococcus radiodurans</i> . Molecular Biology and Evolution, 2015, 32, 2383-2392.	8.9	58
100	Population Genomics of <i>Daphnia pulex</i> . Genetics, 2017, 206, 315-332.	2.9	55
101	Allozyme and mtDNA variation in populations of the Daphnia pulex complex from both sides of the Rocky Mountains. Heredity, 1997, 79, 242-251.	2.6	53
102	Scaling expectations for the time to establishment of complex adaptations. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16577-16582.	7.1	53
103	A Male-Specific Genetic Map of the Microcrustacean <i>Daphnia pulex</i> Based on Single-Sperm Whole-Genome Sequencing. Genetics, 2015, 201, 31-38.	2.9	52
104	Physical bioenergetics: Energy fluxes, budgets, and constraints in cells. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	52
105	Hybridization and the Origin of Contagious Asexuality in < i > Daphnia pulex < /i > . Molecular Biology and Evolution, 2015, 32, msv190.	8.9	49
106	The Rate and Spectrum of Spontaneous Mutations in <i>Mycobacterium smegmatis</i> , a Bacterium Naturally Devoid of the Postreplicative Mismatch Repair Pathway. G3: Genes, Genomes, Genetics, 2016, 6, 2157-2163.	1.8	48
107	<i>Escherichia coli</i> cultures maintain stable subpopulation structure during long-term evolution. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4642-E4650.	7.1	46
108	Evolutionary layering and the limits to cellular perfection. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18851-18856.	7.1	43

#	Article	IF	CITATIONS
109	A Theoretical Framework for Evolutionary Cell Biology. Journal of Molecular Biology, 2020, 432, 1861-1879.	4.2	41
110	THE AGE AND RELATIONSHIPS OF THE MAJOR ANIMAL PHYLA. Evolution; International Journal of Organic Evolution, 1999, 53, 319-325.	2.3	40
111	Similar Mutation Rates but Highly Diverse Mutation Spectra in Ascomycete and Basidiomycete Yeasts. Genome Biology and Evolution, 2016, 8, 3815-3821.	2.5	40
112	Statistical Inference on the Mechanisms of Genome Evolution. PLoS Genetics, 2011, 7, e1001389.	3.5	39
113	Genotype-Frequency Estimation from High-Throughput Sequencing Data. Genetics, 2015, 201, 473-486.	2.9	39
114	Simple evolutionary pathways to complex proteins. Protein Science, 2005, 14, 2217-2225.	7.6	38
115	Low Base-Substitution Mutation Rate in the Germline Genome of the Ciliate < i>Tetrahymena thermophil < /i>). Genome Biology and Evolution, 2016, 8, evw223.	2.5	38
116	Diversity and Divergence of Dinoflagellate Histone Proteins. G3: Genes, Genomes, Genetics, 2016, 6, 397-422.	1.8	38
117	Population Genomics of Paramecium Species. Molecular Biology and Evolution, 2017, 34, 1194-1216.	8.9	35
118	How Well Does the Edmonson-Paloheimo Model Approximate Instantaneous Birth Rates?. Ecology, 1982, 63, 12-18.	3.2	34
119	Estimating Seven Coefficients of Pairwise Relatedness Using Population-Genomic Data. Genetics, 2017, 206, 105-118.	2.9	33
120	The critical effective size for a genetically secure population. Animal Conservation, 1998, 01, 70-72.	2.9	32
121	THE DIVERGENCE OF NEUTRAL QUANTITATIVE CHARACTERS AMONG PARTIALLY ISOLATED POPULATIONS. Evolution; International Journal of Organic Evolution, 1988, 42, 455-466.	2.3	31
122	Patterns of Intraspecific DNA Variation in the Daphnia Nuclear Genome. Genetics, 2009, 182, 325-336.	2.9	31
123	Genome-Wide Linkage-Disequilibrium Profiles from Single Individuals. Genetics, 2014, 198, 269-281.	2.9	30
124	The evolutionary scaling of cellular traits imposed by the drift barrier. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10435-10444.	7.1	30
125	Genome-Wide Estimation of Linkage Disequilibrium from Population-Level High-Throughput Sequencing Data. Genetics, 2014, 197, 1303-1313.	2.9	27
126	THE EFFECT OF VARIABLE FREQUENCY OF SEXUAL REPRODUCTION ON THE GENETIC STRUCTURE OF NATURAL POPULATIONS OF A CYCLICAL PARTHENOGEN. Evolution; International Journal of Organic Evolution, 2012, 66, 919-926.	2.3	24

#	Article	IF	CITATIONS
127	Genetic control of male production in Daphnia pulex. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15602-15609.	7.1	24
128	Considering mutational meltdown as a potential SARS-CoV-2 treatment strategy. Heredity, 2020, 124, 619-620.	2.6	24
129	CONSERVED ONTOGENY AND ALLOMETRIC SCALING OF RESOURCE ACQUISITION AND ALLOCATION IN THE DAPHNIIDAE. Evolution; International Journal of Organic Evolution, 2005, 59, 565-576.	2.3	23
130	Spontaneous mutations of a model heterotrophic marine bacterium. ISME Journal, 2017, 11, 1713-1718.	9.8	22
131	Catalytic properties of RNA polymerases IV and V: accuracy, nucleotide incorporation and rNTP/dNTP discrimination. Nucleic Acids Research, 2017, 45, 11315-11326.	14.5	22
132	Population Genetics of Paramecium Mitochondrial Genomes: Recombination, Mutation Spectrum, and Efficacy of Selection. Genome Biology and Evolution, 2019, 11, 1398-1416.	2.5	22
133	Genome-Wide Mutation Rate Response to pH Change in the Coral Reef Pathogen <i>Vibrio shilonii</i> AK1. MBio, 2017, 8, .	4.1	21
134	Limited Mutation-Rate Variation Within the Paramecium aurelia Species Complex. G3: Genes, Genomes, Genetics, 2018, 8, 2523-2526.	1.8	21
135	THE SELECTIVE VALUE OF ALLELES UNDERLYING POLYGENIC TRAITS. Genetics, 1984, 108, 1021-1033.	2.9	21
136	Promoter Architecture and Sex-Specific Gene Expression in <i>Daphnia pulex</i> . Genetics, 2016, 204, 593-612.	2.9	20
137	Reply to Lane and Martin: Mitochondria do not boost the bioenergetic capacity of eukaryotic cells. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E667-8.	7.1	20
138	Imposed mutational meltdown as an antiviral strategy. Evolution; International Journal of Organic Evolution, 2020, 74, 2549-2559.	2.3	20
139	Estimation of size-specific mortality rates in zooplankton populations by periodic sampling 1. Limnology and Oceanography, 1983, 28, 533-545.	3.1	18
140	Enhanced nutrient uptake is sufficient to drive emergent cross-feeding between bacteria in a synthetic community. ISME Journal, 2020, 14, 2816-2828.	9.8	18
141	Variable Spontaneous Mutation and Loss of Heterozygosity among Heterozygous Genomes in Yeast. Molecular Biology and Evolution, 2020, 37, 3118-3130.	8.9	17
142	The Limits to Estimating Population-Genetic Parameters with Temporal Data. Genome Biology and Evolution, 2020, 12, 443-455.	2.5	17
143	Universally high transcript error rates in bacteria. ELife, 2020, 9, .	6.0	17
144	Characterization of Newly Gained Introns in Daphnia Populations. Genome Biology and Evolution, 2014, 6, 2218-2234.	2.5	16

#	Article	IF	CITATIONS
145	Insertion polymorphisms of mobile genetic elements in sexual and asexual populations of Daphnia pulex. Genome Biology and Evolution, 2017, 9, evw302.	2.5	15
146	The rapid, mass invasion of New Zealand by North American Daphnia " pulex ― Limnology and Oceanography, 2021, 66, 2672-2683.	3.1	15
147	Rule-based workflow management for bioinformatics. VLDB Journal, 2005, 14, 318-329.	4.1	14
148	The Glyphosate-Based Herbicide Roundup Does Not Elevate Genome-Wide Mutagenesis of <i>Escherichia coli</i> . G3: Genes, Genomes, Genetics, 2017, 7, 3331-3335.	1.8	14
149	Revisiting the notion of deleterious sweeps. Genetics, 2021, 219, .	2.9	14
150	Conservation and divergence of the histone code in nucleomorphs. Biology Direct, 2016, 11, 18.	4.6	12
151	Phylogenetic divergence of cell biological features. ELife, 2018, 7, .	6.0	12
152	Inference of Historical Population-Size Changes with Allele-Frequency Data. G3: Genes, Genomes, Genetics, 2020, 10, 211-223.	1.8	12
153	Feedforward loop for diversity. Nature, 2015, 523, 414-416.	27.8	10
154	Low Base-Substitution Mutation Rate but High Rate of Slippage Mutations in the Sequence Repeat-Rich Genome of Dictyostelium discoideum. G3: Genes, Genomes, Genetics, 2020, 10, 3445-3452.	1.8	10
155	Estimation of the Genome-Wide Mutation Rate and Spectrum in the Archaeal Species Haloferax volcanii. Genetics, 2020, 215, 1107-1116.	2.9	10
156	The insect-killing bacterium Photorhabdus luminescens has the lowest mutation rate among bacteria. Marine Life Science and Technology, 2021, 3, 20-27.	4.6	10
157	Allozyme and mtDNA variation in populations of the Daphnia pulex complex from both sides of the Rocky Mountains. Heredity, 1997, 79, 242-251.	2.6	10
158	RANDOM DRIFT, UNIFORM SELECTION, AND THE DEGREE OF POPULATION DIFFERENTIATION. Evolution; International Journal of Organic Evolution, 1986, 40, 640-643.	2.3	9
159	PATTERNS OF GENETIC ARCHITECTURE FOR LIFE-HISTORY TRAITS AND MOLECULAR MARKERS IN A SUBDIVIDED SPECIES. Evolution; International Journal of Organic Evolution, 2001, 55, 1753.	2.3	9
160	Rates of Mutations and Transcript Errors in the Foodborne Pathogen <i>Salmonella enterica</i> subsp. <i>enterica</i>	8.9	9
161	Inferring the major genomic mode of dominance and overdominance. Genetica, 1998, 102/103, 559-567.	1.1	8
162	Evolutionary Dynamics of Asexual Hypermutators Adapting to a Novel Environment. Genome Biology and Evolution, 2021, 13, .	2.5	8

#	Article	IF	CITATIONS
163	Draft Genome Sequence of Caedibacter varicaedens, a Kappa Killer Endosymbiont Bacterium of the Ciliate <i>Paramecium biaurelia</i> . Genome Announcements, 2015, 3, .	0.8	7
164	Early stages of functional diversification in the Rab GTPase gene family revealed by genomic and localization studies in <i>Paramecium</i> species. Molecular Biology of the Cell, 2017, 28, 1101-1110.	2.1	7
165	An Escherichia coli Nitrogen Starvation Response Is Important for Mutualistic Coexistence with Rhodopseudomonas palustris. Applied and Environmental Microbiology, 2018, 84, .	3.1	7
166	Complex Ecotype Dynamics Evolve in Response to Fluctuating Resources. MBio, 2022, 13, e0346721.	4.1	7
167	Mutation, Eugenics, and the Boundaries of Science. Genetics, 2016, 204, 825-827.	2.9	6
168	Response to Martin and colleagues: mitochondria do not boost the bioenergetic capacity of eukaryotic cells. Biology Direct, 2018, 13, 26.	4.6	4
169	Evolutionary bioenergetics of ciliates. Journal of Eukaryotic Microbiology, 2022, 69, .	1.7	3
170	The Rab7 subfamily across <i>Paramecium aurelia</i> species; evidence of high conservation in sequence and function. Small GTPases, 2020, 11, 421-429.	1.6	2
171	Unexpected Discovery of Hypermutator Phenotype Sounds the Alarm for Quality Control Strains. Genome Biology and Evolution, 2021, 13, .	2.5	2
172	Joseph Shapiro, an Icon of Applied Limnology. Limnology and Oceanography Bulletin, 2019, 28, 35-37.	0.4	0
173	Low baseâ€substitution mutation rate and predominance of insertionâ€deletion events in the acidophilic bacterium <i>Acidobacterium capsulatum</i> . Ecology and Evolution, 2021, 11, 17609-17614.	1.9	О