Patrick T Mcgrath

List of Publications by Year
in descending order

42	2,525	279798	345221
papers	citations	23	36
		h-index	g-index

56	56	56	2589
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rapid and sequential movement of individual chromosomal loci to specific subcellular locations during bacterial DNA replication. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9257-9262.	7.1	388
2	Parallel evolution of domesticated Caenorhabditis species targets pheromone receptor genes. Nature, 2011, 477, 321-325.	27.8	225
3	Quantitative Mapping of a Digenic Behavioral Trait Implicates Globin Variation in C. elegans Sensory Behaviors. Neuron, 2009, 61, 692-699.	8.1	219
4	A phospho-signaling pathway controls the localization and activity of a protease complex critical for bacterial cell cycle progression. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10935-10940.	7.1	184
5	A Dynamically Localized Protease Complex and a Polar Specificity Factor Control a Cell Cycle Master Regulator. Cell, 2006, 124, 535-547.	28.9	154
6	High-throughput identification of transcription start sites, conserved promoter motifs and predicted regulons. Nature Biotechnology, 2007, 25, 584-592.	17.5	145
7	Balancing selection shapes density-dependent foraging behaviour. Nature, 2016, 539, 254-258.	27.8	132
8	Genome-wide protein phylogenies for four African cichlid species. BMC Evolutionary Biology, 2018, 18, 1.	3.2	116
9	Small non‑coding RNAs in *Caulobacter crescentus*. Molecular Microbiology, 2008, 68, 600-614.	2.5	105
10	Extreme allelic heterogeneity at a Caenorhabditis elegans beta-tubulin locus explains natural resistance to benzimidazoles. PLoS Pathogens, 2018, 14, e1007226.	4.7	97
11	Conserved modular design of an oxygen sensory/signaling network with species-specific output. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8018-8023.	7.1	80
12	Cytokinesis signals truncation of the PodJ polarity factor by a cell cycle-regulated protease. EMBO Journal, 2006, 25, 377-386.	7.8	71
13	Regulatory changes in two chemoreceptor genes contribute to a Caenorhabditis elegans QTL for foraging behavior. ELife, 2016, 5, .	6.0	63
14	Selection on a Subunit of the NURF Chromatin Remodeler Modifies Life History Traits in a Domesticated Strain of Caenorhabditis elegans. PLoS Genetics, 2016, 12, e1006219.	3.5	50
15	Quantitative benzimidazole resistance and fitness effects of parasitic nematode beta-tubulin alleles. International Journal for Parasitology: Drugs and Drug Resistance, 2020, 14, 28-36.	3.4	47
16	A high-throughput device for size based separation of C. elegans developmental stages. Lab on A Chip, 2014, 14, 1746-1752.	6.0	46
17	Behavior-dependent *cis* regulation reveals genes and pathways associated with bower building in cichlid fishes. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11081-E11090.	7.1	42
18	Changes to social feeding behaviors are not sufficient for fitness gains of the Caenorhabditis elegans N2 reference strain. ELife, 2018, 7, .	6.0	38

#	Article	IF	Citations
19	Deep phenotyping unveils hidden traits and genetic relations in subtle mutants. Nature Communications, 2016, 7, 12990.	12.8	37
20	From QTL to gene: C. elegans facilitates discoveries of the genetic mechanisms underlying natural variation. Trends in Genetics, 2021, 37, 933-947.	6.7	37
21	A primer on pheromone signaling in Caenorhabditis elegans for systems biologists. Current Opinion in Systems Biology, 2019, 13, 23-30.	2.6	31
22	Analysis of Epistasis in Natural Traits Using Model Organisms. Trends in Genetics, 2018, 34, 883-898.	6.7	28
23	Correlations of Genotype with Climate Parameters Suggest <i>Caenorhabditis elegans</i> Niche Adaptations. G3: Genes, Genomes, Genetics, 2017, 7, 289-298.	1.8	26
24	Applying gene regulatory network logic to the evolution of social behavior. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5886-5893.	7.1	25
25	Setting the pace: mechanisms tying Caulobacter cell-cycle progression to macroscopic cellular events. Current Opinion in Microbiology, 2004, 7, 192-197.	5.1	23
26	Natural Variation and Genetic Determinants of <i>Caenorhabditis elegans</i> Sperm Size. Genetics, 2019, 213, 615-632.	2.9	19
27	Modeling of a negative feedback mechanism explains antagonistic pleiotropy in reproduction in domesticated Caenorhabditis elegans strains. PLoS Genetics, 2017, 13, e1006769.	3.5	19
28	Automatic Classification of Cichlid Behaviors Using 3D Convolutional Residual Networks. IScience, 2020, 23, 101591.	4.1	12
29	Microfluidic platform with spatiotemporally controlled micro-environment for studying long-term C. elegans developmental arrests. Lab on A Chip, 2017, 17, 1826-1833.	6.0	10
30	AÂspontaneous complex structural variant in rcan-1 increases exploratory behavior and laboratory fitness of Caenorhabditis elegans. PLoS Genetics, 2020, 16, e1008606.	3.5	9
31	Characterizing cDNA Ends by Circular RACE. Methods in Molecular Biology, 2012, 772, 257-265.	0.9	7
32	Varieties of behavioral natural variation. Current Opinion in Neurobiology, 2013, 23, 24-28.	4.2	6
33	Automated measurement of long-term bower behaviors in Lake Malawi cichlids using depth sensing and action recognition. Scientific Reports, 2020, 10, 20573.	3.3	5
34	Genome-enabled discovery of evolutionary divergence in brains and behavior. Scientific Reports, 2021, 11, 13016.	3.3	5
35	Evolution of Yin and Yang isoforms of a chromatin remodeling subunit precedes the creation of two genes. ELife, 2019, 8, .	6.0	5
36	A genetic cause of age-related decline. Nature, 2017, 551, 179-180.	27.8	2

#	Article	IF	Citations
37	Title is missing!. , 2020, 16, e1008606.		0
38	Title is missing!. , 2020, 16, e1008606.		0
39	Title is missing!. , 2020, 16, e1008606.		0
40	Title is missing!. , 2020, 16, e1008606.		0
41	Title is missing!. , 2020, 16, e1008606.		0
42	Title is missing!. , 2020, 16, e1008606.		0