T Ryan Gregory

List of Publications by Year
in descending order

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80 papers	7,098 citations	101384 36 h-index	79541 73 g-index
81 all docs	81 docs citations	81 times ranked	8002 citing authors

#	Article	IF	Citations
1	The genome of Tetranychus urticae reveals herbivorous pest adaptations. Nature, 2011, 479, 487-492.	13.7	897
2	Coincidence, coevolution, or causation? DNA content, cell size, and the C-value enigma. Biological Reviews, 2001, 76, 65-101.	4.7	590
3	The correlation between rDNA copy number and genome size in eukaryotes. Genome, 2003, 46, 48-50.	0.9	401
4	Eukaryotic genome size databases. Nucleic Acids Research, 2007, 35, D332-D338.	6.5	371
5	Synergy between sequence and size in Large-scale genomics. Nature Reviews Genetics, 2005, 6, 699-708.	7.7	281
6	Understanding Natural Selection: Essential Concepts and Common Misconceptions. Evolution: Education and Outreach, 2009, 2, 156-175.	0.3	280
7	From Pixels to Picograms. Journal of Histochemistry and Cytochemistry, 2002, 50, 735-749.	1.3	233
8	The Effects of Chronic Plasma Cortisol Elevation on the Feeding Behaviour, Growth, Competitive Ability, and Swimming Performance of Juvenile Rainbow Trout. Physiological and Biochemical Zoology, 1999, 72, 286-295.	0.6	226
9	Genome size and developmental complexity. Genetica, 2002, 115, 131-146.	0.5	222
10	The C-value Enigma in Plants and Animals: A Review of Parallels and an Appeal for Partnership. Annals of Botany, 2005, 95, 133-146.	1.4	222
11	A BIRD'S-EYE VIEW OF THE C-VALUE ENIGMA: GENOME SIZE, CELL SIZE, AND METABOLIC RATE IN THE CLASS AVES. Evolution; International Journal of Organic Evolution, 2002, 56, 121-130.	1.1	218
12	What's in a genome? The C-value enigma and the evolution of eukaryotic genome content. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140331.	1.8	211
13	The Case for Junk DNA. PLoS Genetics, 2014, 10, e1004351.	1.5	202
14	Genome Size Evolution in Animals. , 2005, , 3-87.		200
15	Understanding Evolutionary Trees. Evolution: Education and Outreach, 2008, 1, 121-137.	0.3	187
16	Insertionâ€“deletion biases and the evolution of genome size. Gene, 2004, 324, 15-34.	1.0	157
17	Evolutionary implications of the relationship between genome size and body size in flatworms and copepods. Heredity, 2000, 84, 201-208.	1.2	121
18	The tardigrade Hypsibius dujardini, a new model for studying the evolution of development. Developmental Biology, 2007, 312, 545-559.	0.9	119

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19	Polyploidy in Animals. , 2005, , 427-517.		114
20	Metabolic â€˜enginesâ€™ of flight drive genome size reduction in birds. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132780.	1.2	97
21	Macroevolution, hierarchy theory, and the C-value enigma. Paleobiology, 2004, 30, 179-202.	1.3	96
22	Individual variation and interrelationships between swimming performance, growth rate, and feeding in juvenile rainbow trout (Oncorhynchus mykiss). Canadian Journal of Fisheries and Aquatic Sciences, 1998, 55, 1583-1590.	0.7	95
23	Nucleotypic effects without nuclei: Genome size and erythrocyte size in mammals. Genome, 2000, 43, 895-901.	0.9	94
24	Distinguishing between "Function" and "Effect" in Genome Biology. Genome Biology and Evolution, 2014, 6, 1234-1237.	1.1	79
25	Do larger genomes contain more diverse transposable elements?. BMC Evolutionary Biology, 2015, 15, 69.	3.2	72
26	Variation across amphibian species in the size of the nuclear genome supports a pluralistic, hierarchical approach to the C-value enigma. Biological Journal of the Linnean Society, 2003, 79, 329-339.	0.7	67
27	Genome size and wing parameters in passerine birds. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 55-61.	1.2	63
28	Genome size, cell size, and the evolution of enucleated erythrocytes in attenuate salamanders. Zoology, 2008, 111, 218-230.	0.6	55
29	Artificial Selection and Domestication: Modern Lessons from Darwinâ€™s Enduring Analogy. Evolution: Education and Outreach, 2009, 2, 5-27.	0.3	55
30	New insights into the distribution of polyploid Daphnia: the Holarctic revisited and Argentina explored. Molecular Ecology, 2002, 11, 1209-1217.	2.0	51
31	Patterns of genome size diversity in the ray-finned fishes. Hydrobiologia, 2009, 625, 1-25.	1.0	49
32	Is small indel bias a determinant of genome size?. Trends in Genetics, 2003, 19, 485-488.	2.9	47
33	Genome size and developmental parameters in the homeothermic vertebrates. Genome, 2002, 45, 833-838.	0.9	46
34	The Evolution of Complex Organs. Evolution: Education and Outreach, 2008, 1, 358-389.	0.3	46
35	The smallest avian genomes are found in hummingbirds. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 3753-3757.	1.2	43
36	The genome sizes of megabats (Chiroptera: Pteropodidae) are remarkably constrained. Biology Letters, 2009, 5, 347-351.	1.0	42

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37	Patterns of genome size variation in snapping shrimp. Genome, 2016, 59, 393-402.	0.9	42
38	Genome size variation in lepidopteran insects. Canadian Journal of Zoology, 2003, 81, 1399-1405.	0.4	41
39	Preparation of Samples for Comparative Studies of Arthropod Chromosomes: Visualization, In Situ Hybridization, and Genome Size Estimation. Methods in Enzymology, 2005, 395, 460-488.	0.4	39
40	Macroevolution and the Genome. , 2005, , 679-729.		35
41	Applying ecological models to communities of genetic elements: the case of neutral theory. Molecular Ecology, 2015, 24, 3232-3242.	2.0	34
42	Conceptual and Empirical Challenges of Ascribing Functions to Transposable Elements. American Naturalist, 2014, 184, 14-24.	1.0	31
43	Population size and genome size in fishes: a closer look. Genome, 2008, 51, 309-313.	0.9	30
44	Temporal control of DNA replication and the adaptive value of chromatin diminution in copepods. The Journal of Experimental Zoology, 2001, 291, 310-316.	1.4	29
45	Genome size estimates for two important freshwater molluscs, the zebra mussel (Dreissena) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	0.9	28
46	C-value estimates for 31 species of ladybird beetles (Coleoptera: Coccinellidae). Hereditas, 2004, 139, 121-127.	0.5	28
47	Sizing up arthropod genomes: an evaluation of the impact of environmental variation on genome size estimates by flow cytometry and the use of qPCR as a method of estimation. Genome, 2013, 56, 505-510.	0.9	27
48	Genome size estimates for some oligochaete annelids. Canadian Journal of Zoology, 2002, 80, 1485-1489.	0.4	26
49	Genome size is inversely correlated with relative brain size in parrots and cockatoos. Genome, 2009, 52, 261-267.	0.9	26
50	Comparative Genomics in Prokaryotes. , 2005, , 585-675.		23
51	Genomic Diversity Research and the Role of Biorepositories. Cell Preservation Technology, 2007, 5, 93-103.	0.8	23
52	Patterns of genome size diversity in bats (order Chiroptera). Genome, 2013, 56, 457-472.	0.9	23
53	Distinguishing ecological from evolutionary approaches to transposable elements. Biological Reviews, 2013, 88, 573-584.	4.7	22
54	Nuclear DNA content correlates with depth, body size, and diversification rate in amphipod crustaceans from ancient Lake Baikal, Russia. Genome, 2017, 60, 303-309.	0.9	22

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55	A first exploration of genome size diversity in sponges. Genome, 2013, 56, 451-456.	0.9	21
56	Evolution as Fact, Theory, and Path. Evolution: Education and Outreach, 2008, 1, 46-52.	0.3	20
57	Genome size estimates for crustaceans using Feulgen image analysis densitometry of ethanolâ€preserved tissues. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2014, 85, 862-868.	1.1	19
58	Throwing away DNA: programmed downsizing in somatic nuclei. Trends in Genetics, 2022, 38, 483-500.	2.9	18
59	The Genome Sizes of Ostracod Crustaceans Correlate with Body Size and Evolutionary History, but not Environment. Journal of Heredity, 2017, 108, 701-706.	1.0	17
60	Genome size and chromosome number in velvet worms (Onychophora). Genetica, 2012, 140, 497-504.	0.5	16
61	Genome size is not correlated positively with longevity in fishes (or homeotherms). Experimental Gerontology, 2004, 39, 859-860.	1.2	15
62	Transposable element persistence via potential genome-level ecosystem engineering. BMC Genomics, 2020, 21, 367.	1.2	14
63	Evolutionary Trends. Evolution: Education and Outreach, 2008, 1, 259-273.	0.3	13
64	A novel application of ecological analyses to assess transposable element distributions in the genome of the domestic cow, Bos taurus. Genome, 2013, 56, 521-533.	0.9	8
65	Conceptions of Evolution among Science Graduate Students. BioScience, 2009, 59, 792-799.	2.2	7
66	Genome size of the northern walkingstick, Diapheromera femorata (Phasmida: Heteronemiidae). Canadian Journal of Zoology, 2002, 80, 1303-1305.	0.4	6
67	First estimates of genome size in ribbon worms (phylum Nemertea) using flow cytometry and Feulgen image analysis densitometry. Canadian Journal of Zoology, 2014, 92, 847-851.	0.4	6
68	Qualitative and quantitative analysis of the genomes and chromosomes of spider monkeys (Primates:) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.7	6
69	Small genomes in most mites (but not ticks). International Journal of Acarology, 2020, 46, 1-8.	0.3	6
70	DNA barcoding as an aid for species identification in austral black flies (Insecta: Diptera: Simuliidae). Genome, 2017, 60, 348-357.	0.9	5
71	The Argument from Design: A Guided Tour of William Paleyâ€™s Natural Theology (1802). Evolution: Education and Outreach, 2009, 2, 602-611.	0.3	4
72	The dynamic evolutionary history of genome size in North American woodland salamanders. Genome, 2017, 60, 285-292.	0.9	4

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73	Genome size and brain cell density in birds. Canadian Journal of Zoology, 2018, 96, 379-382.	0.4	4
74	Molecules and Macroevolution: A Gouldian View of the Genome. , 2013, , 53-72.		3
75	Genome size estimates for Aplacophora, Polyplacophora and Scaphopoda: small solenogasters and sizeable scaphopods: TableÂ1.. Journal of Molluscan Studies, 2015, , eyv054.	0.4	3
76	Molecular Phylogenetic Analysis ofInfidum similis, Including Morphological Data and Estimation of its Genome Size. Journal of Parasitology, 2016, 102, 468-475.	0.3	3
77	Cetacean genome size diversity. Marine Mammal Science, 2019, 35, 1133-1140.	0.9	1
78	Spore: Assessment of the Science in an Evolution-Oriented Game. Human-computer Interaction Series, 2010, , 71-85.	0.4	1
79	What I learned from Denis Lynn. Aquatic Ecosystem Health and Management, 2021, 23, .	0.3	0
80	Long-term TE persistence even without beneficial insertion. BMC Genomics, 2021, 22, 260.	1.2	0