

# John K Colbourne

## List of Publications by Year in descending order

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117  
papers

9,959  
citations

44069

48  
h-index

38395

95  
g-index

126  
all docs

126  
docs citations

126  
times ranked

10845  
citing authors

#	ARTICLE	IF	CITATIONS
1	Refining the evolutionary time machine: An assessment of whole genome amplification using single historical <i>Daphnia</i> eggs. <i>Molecular Ecology Resources</i> , 2022, 22, 946-961.	4.8	3
2	Multigenerational Exposure to Nano-TiO <sub>2</sub> Induces Ageing as a Stress Response Mitigated by Environmental Interactions. <i>Advanced NanoBiomed Research</i> , 2021, 1, 2000083.	3.6	3
3	Extensive standing genetic variation from a small number of founders enables rapid adaptation in <i>Daphnia</i> . <i>Nature Communications</i> , 2021, 12, 4306.	12.8	27
4	Progress towards an OECD reporting framework for transcriptomics and metabolomics in regulatory toxicology. <i>Regulatory Toxicology and Pharmacology</i> , 2021, 125, 105020.	2.7	46
5	Vision of a near future: Bridging the human health-environment divide. Toward an integrated strategy to understand mechanisms across species for chemical safety assessment. <i>Toxicology in Vitro</i> , 2020, 62, 104692.	2.4	33
6	Centennial clonal stability of asexual <i>Daphnia</i> in Greenland lakes despite climate variability. <i>Ecology and Evolution</i> , 2020, 10, 14178-14188.	1.9	4
7	Spatio-temporal processes drive fine-scale genetic structure in an otherwise panmictic seabird population. <i>Scientific Reports</i> , 2020, 10, 20725.	3.3	2
8	Sex biased expression and co-expression networks in development, using the hymenopteran <i>Nasonia vitripennis</i> . <i>PLoS Genetics</i> , 2020, 16, e1008518.	3.5	11
9	A comprehensive epigenomic analysis of phenotypically distinguishable, genetically identical female and male <i>Daphnia pulex</i> . <i>BMC Genomics</i> , 2020, 21, 17.	2.8	25
10	Multigenerational Exposures of <i>Daphnia Magna</i> to Pristine and Aged Silver Nanoparticles: Epigenetic Changes and Phenotypical Ageing Related Effects. <i>Small</i> , 2020, 16, e2000301.	10.0	31
11	Improved Algal Toxicity Test System for Robust Omics-Driven Mode-of-Action Discovery in <i>Chlamydomonas reinhardtii</i> . <i>Metabolites</i> , 2019, 9, 94.	2.9	4
12	Transgenerational response to early spring warming in <i>Daphnia</i> . <i>Scientific Reports</i> , 2019, 9, 4449.	3.3	21
13	Dynamics of Cadmium Acclimation in <i>Daphnia pulex</i> : Linking Fitness Costs, Cross-Tolerance, and Hyper-Induction of Metallothionein. <i>Environmental Science &amp; Technology</i> , 2019, 53, 14670-14678.	10.0	16
14	Review of and Recommendations for Monitoring Contaminants and their Effects in the San Francisco Bay-Delta. <i>San Francisco Estuary and Watershed Science</i> , 2019, 17, .	0.4	3
15	Mixtures of Aluminum and Indium Induce More than Additive Phenotypic and Toxicogenomic Responses in <i>Daphnia magna</i> . <i>Environmental Science &amp; Technology</i> , 2019, 53, 1639-1649.	10.0	19
16	Invertebrate Model Species in AOP Development. , 2018, , 75-106.		3
17	The Toxicogenome of <i>Hyalella azteca</i> : A Model for Sediment Ecotoxicology and Evolutionary Toxicology. <i>Environmental Science &amp; Technology</i> , 2018, 52, 6009-6022.	10.0	79
18	Evolutionary transition from blood feeding to obligate nonbiting in a mosquito. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1009-1014.	7.1	23

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19	Early transcriptional response pathways in <i>Daphnia magna</i> are coordinated in networks of crustacean-specific genes. <i>Molecular Ecology</i> , 2018, 27, 886-897.	3.9	38
20	Mitotic activity patterns and cytoskeletal changes throughout the progression of diapause developmental program in <i>Daphnia</i> . <i>BMC Cell Biology</i> , 2018, 19, 30.	3.0	33
21	How omics technologies can enhance chemical safety regulation: perspectives from academia, government, and industry. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 1252-1259.	4.3	12
22	Pattern of DNA Methylation in <i>Daphnia</i> : Evolutionary Perspective. <i>Genome Biology and Evolution</i> , 2018, 10, 1988-2007.	2.5	47
23	The transcriptomic and proteomic responses of <i>Daphnia pulex</i> to changes in temperature and food supply comprise environment-specific and clone-specific elements. <i>BMC Genomics</i> , 2018, 19, 376.	2.8	19
24	Arsenic Reduces Gene Expression Response to Changing Salinity in Killifish. <i>Environmental Science &amp; Technology</i> , 2018, 52, 8811-8821.	10.0	5
25	Scan, extract, wrap, compute—a 3D method to analyse morphological shape differences. <i>PeerJ</i> , 2018, 6, e4861.	2.0	12
26	The Role of Omics in the Application of Adverse Outcome Pathways for Chemical Risk Assessment. <i>Toxicological Sciences</i> , 2017, 158, 252-262.	3.1	161
27	Conserved Transcription Factors Steer Growth-Related Genomic Programs in <i>Daphnia</i> . <i>Genome Biology and Evolution</i> , 2017, 9, 1821-1842.	2.5	13
28	The Landscape of Extreme Genomic Variation in the Highly Adaptable Atlantic Killifish. <i>Genome Biology and Evolution</i> , 2017, 9, 659-676.	2.5	43
29	OGS2: genome re-annotation of the jewel wasp <i>Nasonia vitripennis</i> . <i>BMC Genomics</i> , 2016, 17, 678.	2.8	35
30	The genomic landscape of rapid repeated evolutionary adaptation to toxic pollution in wild fish. <i>Science</i> , 2016, 354, 1305-1308.	12.6	348
31	Thermal variation and factors influencing vertical migration behavior in <i>Daphnia</i> populations. <i>Journal of Thermal Biology</i> , 2016, 60, 70-78.	2.5	17
32	<i>Daphnia magna</i> transcriptome by RNA-Seq across 12 environmental stressors. <i>Scientific Data</i> , 2016, 3, 160030.	5.3	89
33	Male meiosis in Crustacea: synapsis, recombination, epigenetics and fertility in <i>Daphnia magna</i> . <i>Chromosoma</i> , 2016, 125, 769-787.	2.2	17
34	Evolutionary divergence of core and post-translational circadian clock genes in the pitcher-plant mosquito, <i>Wyeomyia smithii</i> . <i>BMC Genomics</i> , 2015, 16, 754.	2.8	12
35	Ionotropic Glutamate Receptors Mediate Inducible Defense in the Water Flea <i>Daphnia pulex</i> . <i>PLoS ONE</i> , 2015, 10, e0121324.	2.5	23
36	Novel Cadmium Responsive MicroRNAs in <i>Daphnia pulex</i> . <i>Environmental Science &amp; Technology</i> , 2015, 49, 14605-14613.	10.0	34

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37	Synergistic interactions of biotic and abiotic environmental stressors on gene expression. <i>Genome</i> , 2015, 58, 99-109.	2.0	17
38	Differential transcriptomic responses of ancient and modern <i>Daphnia</i> genotypes to phosphorus supply. <i>Molecular Ecology</i> , 2015, 24, 123-135.	3.9	38
39	Potential for sexual conflict assessed via testosterone-mediated transcriptional changes in liver and muscle of a songbird. <i>Journal of Experimental Biology</i> , 2014, 217, 507-17.	1.7	28
40	Functional genomics of acclimation and adaptation in response to thermal stress in <i>Daphnia</i> . <i>BMC Genomics</i> , 2014, 15, 859.	2.8	68
41	Genomes of the rice pest brown planthopper and its endosymbionts reveal complex complementary contributions for host adaptation. <i>Genome Biology</i> , 2014, 15, 521.	8.8	404
42	Functional genomics of intraspecific variation in carbon and phosphorus kinetics in <i>Daphnia</i> . <i>Journal of Experimental Zoology</i> , 2014, 321, 387-398.	1.2	24
43	A millennial-scale chronicle of evolutionary responses to cultural eutrophication in <i>Daphnia</i> . <i>Ecology Letters</i> , 2014, 17, 360-368.	6.4	178
44	An SNP-based second-generation genetic map of <i>Daphnia magna</i> and its application to QTL analysis of phenotypic traits. <i>BMC Genomics</i> , 2014, 15, 1033.	2.8	49
45	The Genomics of Cladoceran Physiology. , 2014, , 235-258.		2
46	Natural Selection Canalizes Expression Variation of Environmentally Induced Plasticity-Enabling Genes. <i>Molecular Biology and Evolution</i> , 2014, 31, 3002-3015.	8.9	48
47	Genomic data integration for ecological and evolutionary traits in non-model organisms. <i>BMC Genomics</i> , 2014, 15, 490.	2.8	36
48	Genome-Wide Transcription Profiles Reveal Genotype-Dependent Responses of Biological Pathways and Gene-Families in <i>Daphnia</i> Exposed to Single and Mixed Stressors. <i>Environmental Science &amp; Technology</i> , 2014, 48, 3513-3522.	10.0	51
49	Transcriptome assembly and microarray construction for <i>Enchytraeus crypticus</i> , a model oligochaete to assess stress response mechanisms derived from soil conditions. <i>BMC Genomics</i> , 2014, 15, 302.	2.8	35
50	Molecular cloning of doublesex genes of four cladocera (water flea) species. <i>BMC Genomics</i> , 2013, 14, 239.	2.8	53
51	Why so many unknown genes? Partitioning orphans from a representative transcriptome of the lone star tick <i>Amblyomma americanum</i> . <i>BMC Genomics</i> , 2013, 14, 135.	2.8	42
52	Multiple origins of pyrethroid insecticide resistance across the species complex of a nontarget aquatic crustacean, <i>Hyalella azteca</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16532-16537.	7.1	131
53	Transcription patterns of genes encoding four metallothionein homologs in <i>Daphnia pulex</i> exposed to copper and cadmium are time- and homolog-dependent. <i>Aquatic Toxicology</i> , 2013, 142-143, 422-430.	4.0	26
54	The evolutionary time machine: using dormant propagules to forecast how populations can adapt to changing environments. <i>Trends in Ecology and Evolution</i> , 2013, 28, 274-282.	8.7	123

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55	Evolutionary history of alpine and subalpine <i>Daphnia</i> in western North America. <i>Freshwater Biology</i> , 2013, 58, 1512-1522.	2.4	13
56	A mutation in the receptor Methoprene-tolerant alters juvenile hormone response in insects and crustaceans. <i>Nature Communications</i> , 2013, 4, 1856.	12.8	100
57	Function and Evolution of DNA Methylation in <i>Nasonia vitripennis</i> . <i>PLoS Genetics</i> , 2013, 9, e1003872.	3.5	162
58	Fine-Scale Mapping of the <i>Nasonia</i> Genome to Chromosomes Using a High-Density Genotyping Microarray. <i>G3: Genes, Genomes, Genetics</i> , 2013, 3, 205-215.	1.8	33
59	Testosterone Affects Neural Gene Expression Differently in Male and Female Juncos: A Role for Hormones in Mediating Sexual Dimorphism and Conflict. <i>PLoS ONE</i> , 2013, 8, e61784.	2.5	52
60	Gut Pathology and Responses to the Microsporidium <i>Nosema ceranae</i> in the Honey Bee <i>Apis mellifera</i> . <i>PLoS ONE</i> , 2012, 7, e37017.	2.5	204
61	Functional characterization of four metallothionein genes in <i>Daphnia pulex</i> exposed to environmental stressors. <i>Aquatic Toxicology</i> , 2012, 110-111, 54-65.	4.0	35
62	De novo transcriptome sequencing in a songbird, the dark-eyed junco ( <i>Junco hyemalis</i> ): genomic tools for an ecological model system. <i>BMC Genomics</i> , 2012, 13, 305.	2.8	35
63	Identification of maternally-loaded RNA transcripts in unfertilized eggs of <i>Tribolium castaneum</i> . <i>BMC Genomics</i> , 2012, 13, 671.	2.8	15
64	Identification of Pathways, Gene Networks, and Paralogous Gene Families in <i>Daphnia pulex</i> Responding to Exposure to the Toxic Cyanobacterium <i>Microcystis aeruginosa</i> . <i>Environmental Science &amp; Technology</i> , 2012, 46, 8448-8457.	10.0	52
65	The evolution of salinity tolerance in <i>Daphnia</i> : a functional genomics approach. <i>Ecology Letters</i> , 2012, 15, 794-802.	6.4	88
66	The genome of the green anole lizard and a comparative analysis with birds and mammals. <i>Nature</i> , 2011, 477, 587-591.	27.8	575
67	How do consumers deal with stoichiometric constraints? Lessons from functional genomics using <i>Daphnia pulex</i> . <i>Molecular Ecology</i> , 2011, 20, 2341-2352.	3.9	51
68	The Ecoresponsive Genome of <i>Daphnia pulex</i> . <i>Science</i> , 2011, 331, 555-561.	12.6	1,086
69	Will genetic adaptation of natural populations to chemical pollution result in lower or higher tolerance to future climate change?. <i>Integrated Environmental Assessment and Management</i> , 2011, 7, 141-143.	2.9	7
70	Genomics of Environmentally Induced Phenotypes in 2 Extremely Plastic Arthropods. <i>Journal of Heredity</i> , 2011, 102, 512-525.	2.4	41
71	Targeted bisulfite sequencing by solution hybrid selection and massively parallel sequencing. <i>Nucleic Acids Research</i> , 2011, 39, e127-e127.	14.5	61
72	Dual Labeled Expression-Tiling Microarray Protocol for Empirical Annotation of Genome Sequences. <i>CGB Technical Report</i> , 2011, 2011, .	1.5	3

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73	Dual Labeled Expression Microarray Protocol for High-Throughput Genomic Investigations. CGB Technical Report, 2011, 2011, .	1.5	8
74	Conservation, loss, and redeployment of Wnt ligands in protostomes: implications for understanding the evolution of segment formation. BMC Evolutionary Biology, 2010, 10, 374.	3.2	153
75	Predator-induced defences in <i>Daphnia pulex</i> : Selection and evaluation of internal reference genes for gene expression studies with real-time PCR. BMC Molecular Biology, 2010, 11, 50.	3.0	52
76	AphidBase: a centralized bioinformatic resource for annotation of the pea aphid genome. Insect Molecular Biology, 2010, 19, 5-12.	2.0	108
77	Characteristics of the genome of <i>Arsenophonus nasoniae</i> , sonâ€killer bacterium of the wasp <i>Nasonia</i> . Insect Molecular Biology, 2010, 19, 75-89.	2.0	94
78	The draft genome sequence of <i>Arsenophonus nasoniae</i> , sonâ€killer bacterium of <i>Nasonia vitripennis</i> , reveals genes associated with virulence and symbiosis. Insect Molecular Biology, 2010, 19, 59-73.	2.0	46
79	Functional and Evolutionary Insights from the Genomes of Three Parasitoid <i>Nasonia</i> Species. Science, 2010, 327, 343-348.	12.6	808
80	ESTPiper â€“ a web-based analysis pipeline for expressed sequence tags. BMC Genomics, 2009, 10, 174.	2.8	17
81	The components of the <i>Daphnia pulex</i> immune system as revealed by complete genome sequencing. BMC Genomics, 2009, 10, 175.	2.8	93
82	Sequencing and de novo analysis of a coral larval transcriptome using 454 GSFlx. BMC Genomics, 2009, 10, 219.	2.8	405
83	The scale of divergence: A phylogenetic appraisal of intercontinental allopatric speciation in a passively dispersed freshwater zooplankton genus. Molecular Phylogenetics and Evolution, 2009, 50, 423-436.	2.7	146
84	Ecological genomics in <i>Daphnia</i> : stress responses and environmental sex determination. Heredity, 2008, 100, 184-190.	2.6	95
85	<i>Daphnia</i> as an emerging model for toxicological genomics. Advances in Experimental Biology, 2008, 2, 165-328.	0.1	91
86	A machine-learning approach to combined evidence validation of genome assemblies. Bioinformatics, 2008, 24, 744-750.	4.1	23
87	Recent advances in crustacean genomics. Integrative and Comparative Biology, 2008, 48, 852-868.	2.0	54
88	Sampling <i>Daphnia</i> 's expressed genes: preservation, expansion and invention of crustacean genes with reference to insect genomes. BMC Genomics, 2007, 8, 217.	2.8	25
89	Profiling sex-biased gene expression during parthenogenetic reproduction in <i>Daphnia pulex</i> . BMC Genomics, 2007, 8, 464.	2.8	51
90	Gene response profiles for <i>Daphnia pulex</i> exposed to the environmental stressor cadmium reveals novel crustacean metallothioneins. BMC Genomics, 2007, 8, 477.	2.8	108

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91	A microsatellite-based genetic linkage map of the waterflea, <i>Daphnia pulex</i> : On the prospect of crustacean genomics. <i>Genomics</i> , 2006, 88, 415-430.	2.9	76
92	The systematics of Australian <i>Daphnia</i> and <i>Daphniopsis</i> (Crustacea: Cladocera): a shared phylogenetic history transformed by habitat-specific rates of evolution. <i>Biological Journal of the Linnean Society</i> , 2006, 89, 469-488.	1.6	41
93	Selection of Surrogate Animal Species for Comparative Toxicogenomics. , 2006, , 33-75.		5
94	EVOLUTIONARY HISTORY OF CONTAGIOUS ASEXUALITY IN DAPHNIA PULEX. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 800-813.	2.3	102
95	wFleaBase: the <i>Daphnia</i> genome database. <i>BMC Bioinformatics</i> , 2005, 6, 45.	2.6	125
96	EVOLUTIONARY HISTORY OF CONTAGIOUS ASEXUALITY IN DAPHNIA PULEX. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 800.	2.3	15
97	Evolutionary history of contagious asexuality in <i>Daphnia pulex</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 800-13.	2.3	43
98	Five hundred and twenty-eight microsatellite markers for ecological genomic investigations using <i>Daphnia</i> . <i>Molecular Ecology Notes</i> , 2004, 4, 485-490.	1.7	58
99	Molecular Evolution of <i>Daphnia</i> Immunity Genes: Polymorphism in a Gram-Negative Binding Protein Gene and an $\alpha$ -2-Macroglobulin Gene. <i>Journal of Molecular Evolution</i> , 2004, 59, 498-506.	1.8	45
100	Reconstruction of Centuries-old <i>Daphnia</i> Communities in a Lake Recovering from Acidification and Metal Contamination. <i>Ambio</i> , 2003, 32, 214-218.	5.5	34
101	Reconstruction of Centuries-old <i>Daphnia</i> Communities in a Lake Recovering from Acidification and Metal Contamination. <i>Ambio</i> , 2003, 32, 214.	5.5	5
102	ACCELERATED MOLECULAR EVOLUTION IN HALOPHILIC CRUSTACEANS. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 909-926.	2.3	101
103	Rapid, local adaptation of zooplankton behavior to changes in predation pressure in the absence of neutral genetic changes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 6256-6260.	7.1	373
104	Reconstructing the history of intercontinental dispersal in <i>Daphnia lumholtzi</i> by use of genetic markers. <i>Limnology and Oceanography</i> , 2000, 45, 1414-1419.	3.1	49
105	The Quantitative and Molecular Genetic Architecture of a Subdivided Species. <i>Evolution; International Journal of Organic Evolution</i> , 1999, 53, 100.	2.3	102
106	Holarctic Phylogeography of an Asexual Species Complex I. Mitochondrial DNA Variation in Arctic <i>Daphnia</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1999, 53, 777.	2.3	35
107	THE QUANTITATIVE AND MOLECULAR GENETIC ARCHITECTURE OF A SUBDIVIDED SPECIES. <i>Evolution; International Journal of Organic Evolution</i> , 1999, 53, 100-110.	2.3	192
108	HOLARCTIC PHYLOGEOGRAPHY OF AN ASEXUAL SPECIES COMPLEX I. MITOCHONDRIAL DNA VARIATION IN ARCTIC <i>DAPHNIA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1999, 53, 777-792.	2.3	66

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109	The Unusually Long Small-Subunit Ribosomal RNA of the Crustacean, <i>Daphnia pulex</i> : Sequence and Predicted Secondary Structure. <i>Journal of Molecular Evolution</i> , 1998, 46, 307-313.	1.8	52
110	Phylogenetics and evolution of a circumarctic species complex (Cladocera: <i>Daphnia pulex</i> ). <i>Biological Journal of the Linnean Society</i> , 1998, 65, 347-365.	1.6	111
111	Evolution of Enterohemorrhagic <i>Escherichia coli</i> Hemolysin Plasmids and the Locus for Enterocyte Effacement in Shiga Toxin-Producing <i>E. coli</i> . <i>Infection and Immunity</i> , 1998, 66, 2553-2561.	2.2	88
112	Long-term genetic shifts in a microcrustacean egg bank associated with anthropogenic changes in the Lake Constance ecosystem. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1997, 264, 1613-1618.	2.6	129
113	The systematics of North American <i>Daphnia</i> (Crustacea: Anomopoda): a molecular phylogenetic approach. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1996, 351, 349-360.	4.0	185
114	DNA fingerprinting of bluegill sunfish ( <i>Lepomis macrochirus</i> ) using (GT) <sub>n</sub> microsatellites and its potential for assessment of mating success. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1996, 53, 342-349.	1.4	58
115	Phylogenetics and Evolution of the <i>Daphnia longispina</i> Group (Crustacea) Based on 12S rDNA Sequence and Allozyme Variation. <i>Molecular Phylogenetics and Evolution</i> , 1996, 5, 495-510.	2.7	144
116	DNA fingerprinting of bluegill sunfish ( <i>Lepomis macrochirus</i> ) using (GT) <sub>n</sub> microsatellites and its potential for assessment of mating success. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1996, 53, 342-349.	1.4	24
117	A Global Grid for Analysis of Arthropod Evolution. , 0, , .		7