Tom J Little

List of Publications by Year
in descending order

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101 papers	6,111 citations	81900 39 h-index	76900 74 g-index
111 all docs	111 docs citations	111 times ranked	5143 citing authors

#	Article	IF	Citations
1	GENETIC VARIATION IN A HOST-PARASITE ASSOCIATION: POTENTIAL FOR COEVOLUTION AND FREQUENCY-DEPENDENT SELECTION. Evolution; International Journal of Organic Evolution, 2001, 55, 1136-1145.	2.3	443
2	Immunity in a variable world. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 15-26.	4.0	315
3	Maternal Transfer of Strain-Specific Immunity in an Invertebrate. Current Biology, 2003, 13, 489-492.	3.9	311
4	Natural Selection Drives Extremely Rapid Evolution in Antiviral RNAi Genes. Current Biology, 2006, 16, 580-585.	3.9	270
5	Invertebrate immunity and the limits of mechanistic immunology. Nature Immunology, 2005, 6, 651-654.	14.5	240
6	The Evolution of Virulence When Parasites Cause Host Castration and Gigantism. American Naturalist, 2004, 164, S19-S32.	2.1	205
7	Fitness consequences of immune responses: strengthening the empirical framework for ecoimmunology. Functional Ecology, 2011, 25, 5-17.	3.6	202
8	Ecological and evolutionary implications of immunological priming in invertebrates. Trends in Ecology and Evolution, 2004, 19, 58-60.	8.7	198
9	HOST-PARASITE AND GENOTYPE-BY-ENVIRONMENT INTERACTIONS: TEMPERATURE MODIFIES POTENTIAL FOR SELECTION BY A STERILIZING PATHOGEN. Evolution; International Journal of Organic Evolution, 2005, 59, 70-80.	2.3	195
10	Empirical Support for Optimal Virulence in a Castrating Parasite. PLoS Biology, 2006, 4, e197.	5.6	154
11	The Coevolution of Virulence: Tolerance in Perspective. PLoS Pathogens, 2010, 6, e1001006.	4.7	149
12	The Dscam Homologue of the Crustacean Daphnia Is Diversified by Alternative Splicing Like in Insects. Molecular Biology and Evolution, 2008, 25, 1429-1439.	8.9	145
13	PARASITE-DRIVEN GENETIC CHANGE IN A NATURAL POPULATION OF DAPHNIA. Evolution; International Journal of Organic Evolution, 2007, 61, 796-803.	2.3	115
14	Deforestation and Vectorial Capacity ofAnopheles gambiaeGiles Mosquitoes in Malaria Transmission, Kenya. Emerging Infectious Diseases, 2008, 14, 1533-1538.	4.3	112
15	PARASITE-HOST SPECIFICITY: EXPERIMENTAL STUDIES ON THE BASIS OF PARASITE ADAPTATION. Evolution; International Journal of Organic Evolution, 2006, 60, 31-38.	2.3	100
16	The evolutionary significance of parasitism: do parasite-driven genetic dynamics occur ex silico?. Journal of Evolutionary Biology, 2002, 15, 1-9.	1.7	97
17	Temperatureâ€dependent costs of parasitism and maintenance of polymorphism under genotypeâ€byâ€environment interactions. Journal of Evolutionary Biology, 2008, 21, 1418-1427.	1.7	95
18	Associations between parasitism and host genotype in natural populations ofDaphnia(Crustacea:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.8	94

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19	The components of the Daphnia pulex immune system as revealed by complete genome sequencing. BMC Genomics, 2009, 10, 175.	2.8	93
20	Epidemiological, Evolutionary, and Coevolutionary Implications of Context-Dependent Parasitism. American Naturalist, 2011, 177, 510-521.	2.1	93
21	A parasite-mediated life-history shift in Daphnia magna. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 505-509.	2.6	90
22	Daphnia magna transcriptome by RNA-Seq across 12 environmental stressors. Scientific Data, 2016, 3, 160030.	5.3	89
23	CRISPR-mediated phage resistance and the ghost of coevolution past. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 2097-2103.	2.6	82
24	The cause of parasitic infection in natural populations of Daphnia (Crustacea: Cladocera): the role of host genetics. Proceedings of the Royal Society B: Biological Sciences, 2000, 267, 2037-2042.	2.6	78
25	Fecundity compensation and tolerance to a sterilizing pathogen in <scp>D</scp>aphnia. Journal of Evolutionary Biology, 2012, 25, 1888-1896.	1.7	73
26	Measuring parasite fitness under genetic and thermal variation. Heredity, 2009, 103, 102-109.	2.6	70
27	TEMPORAL PATTERNS OF GENETIC VARIATION FOR RESISTANCE AND INFECTIVITY IN A DAPHNIA-MICROPARASITE SYSTEM. Evolution; International Journal of Organic Evolution, 2001, 55, 1146-1152.	2.3	69
28	Host-parasite and genotype-by-environment interactions: temperature modifies potential for selection by a sterilizing pathogen. Evolution; International Journal of Organic Evolution, 2005, 59, 70-80.	2.3	67
29	The effect of a pathogen epidemic on the genetic structure and reproductive strategy of the crustacean Daphnia magna. Ecology Letters, 2004, 7, 848-858.	6.4	59
30	Parasite-mediated selection and the role of sex and diapause in Daphnia. Journal of Evolutionary Biology, 2006, 19, 1183-1189.	1.7	57
31	Recent and Recurrent Selective Sweeps of the Antiviral RNAi Gene Argonaute-2 in Three Species of Drosophila. Molecular Biology and Evolution, 2011, 28, 1043-1056.	8.9	55
32	Strength training: Isometric training at a range of joint angles versus dynamic training. Journal of Sports Sciences, 2005, 23, 817-824.	2.0	54
33	Host nutrition alters the variance in parasite transmission potential. Biology Letters, 2013, 9, 20121145.	2.3	53
34	GENETIC VARIATION IN A HOST-PARASITE ASSOCIATION: POTENTIAL FOR COEVOLUTION AND FREQUENCY-DEPENDENT SELECTION. Evolution; International Journal of Organic Evolution, 2001, 55, 1136.	2.3	49
35	Alternative splicing of the Anopheles gambiae Dscam gene in diverse Plasmodium falciparum infections. Malaria Journal, 2011, 10, 156.	2.3	49
36	The evolution of TEP1, an exceptionally polymorphic immunity gene in Anopheles gambiae. BMC Evolutionary Biology, 2008, 8, 274.	3.2	47

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37	Immune genes undergo more adaptive evolution than non-immune system genes in Daphnia pulex. BMC Evolutionary Biology, 2012, 12, 63.	3.2	47
38	Molecular Evolution of Daphnia Immunity Genes: Polymorphism in a Gram-Negative Binding Protein Gene and an ?-2-Macroglobulin Gene. Journal of Molecular Evolution, 2004, 59, 498-506.	1.8	45
39	Elevated maternal temperature enhances offspring disease resistance in Daphnia magna. Functional Ecology, 2014, 28, 424-431.	3.6	44
40	Genetic variation for maternal effects on parasite susceptibility. Journal of Evolutionary Biology, 2011, 24, 2357-2363.	1.7	43
41	Maternal food quantity affects offspring feeding rate in Daphnia magna. Biology Letters, 2014, 10, 20140356.	2.3	39
42	Endemism and ecological islands: the ostracods from Jamaican bromeliads. Freshwater Biology, 1996, 36, 327-338.	2.4	38
43	Daphnia magna shows reduced infection upon secondary exposure to a pathogen. Biology Letters, 2012, 8, 972-975.	2.3	37
44	Evidence for a cost of immunity when the crustacean Daphnia magna is exposed to the bacterial pathogen Pasteuria ramosa. Journal of Animal Ecology, 2007, 76, 1202-1207.	2.8	36
45	Mitogenome phylogeographic analysis of a planktonic crustacean. Molecular Phylogenetics and Evolution, 2018, 129, 138-148.	2.7	36
46	Parasite-host specificity: experimental studies on the basis of parasite adaptation. Evolution; International Journal of Organic Evolution, 2006, 60, 31-8.	2.3	36
47	Competitiveness and lifeâ€history characteristics of Daphnia with respect to susceptibility to a bacterial pathogen. Journal of Evolutionary Biology, 2002, 15, 796-802.	1.7	35
48	Genetic variation in the cellular response of Daphnia magna (Crustacea: Cladocera) to its bacterial parasite. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 3291-3297.	2.6	35
49	The evolution of immune-related genes from disease carrying mosquitoes: diversity in a peptidoglycan- and a thioester-recognizing protein. Insect Molecular Biology, 2005, 14, 599-605.	2.0	34
50	Nucleotide Polymorphism and Within-Gene Recombination in Daphnia magna and D. pulex, Two Cyclical Parthenogens. Genetics, 2009, 182, 313-323.	2.9	32
51	Population genetics of Plasmodium resistance genes in Anopheles gambiae: no evidence for strong selection. Molecular Ecology, 2007, 16, 3497-3510.	3.9	31
52	An ancient immunity gene duplication in Daphnia magna: RNA expression and sequence analysis of two nitric oxide synthase genes. Developmental and Comparative Immunology, 2009, 33, 1000-1010.	2.3	30
53	Genetic characterization of an arctic zooplankter : insights into geographic polyploidy. Proceedings of the Royal Society B: Biological Sciences, 1997, 264, 1363-1370.	2.6	29
54	The Course of Malaria in Mice: Major Histocompatibility Complex (MHC) Effects, but No General MHC Heterozygote Advantage in Single-Strain Infections. Genetics, 2005, 170, 1427-1430.	2.9	29

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55	Parasite variation and the evolution of virulence in a Daphnia-microparasite system. Parasitology, 2008, 135, 303-308.	1.5	29
56	ProPhenolOxidase in Daphnia magna: cDNA sequencing and expression in relation to resistance to pathogens. Developmental and Comparative Immunology, 2009, 33, 674-680.	2.3	29
57	Successfully resisting a pathogen is rarely costly in Daphnia magna. BMC Evolutionary Biology, 2010, 10, 355.	3.2	29
58	The causes and consequences of variation in offspring size: a case study using Daphnia. Journal of Evolutionary Biology, 2007, 20, 577-587.	1.7	28
59	Studying immunity at the whole organism level. BioEssays, 2008, 30, 404-405.	2.5	28
60	A shared mechanism of defense against predators and parasites: chitin regulation and its implications for lifeâ€history theory. Ecology and Evolution, 2013, 3, 5119-5126.	1.9	28
61	PARASITE-HOST SPECIFICITY: EXPERIMENTAL STUDIES ON THE BASIS OF PARASITE ADAPTATION. Evolution; International Journal of Organic Evolution, 2006, 60, 31.	2.3	26
62	The development of pathogen resistance in Daphnia magna: implications for disease spread in age-structured populations. Journal of Experimental Biology, 2014, 217, 3929-34.	1.7	26
63	Bigger is better: changes in body size explain a maternal effect of food on offspring disease resistance. Ecology and Evolution, 2017, 7, 1403-1409.	1.9	25
64	Inferring selection in the Anopheles gambiae species complex: an example from immune-related serine protease inhibitors. Malaria Journal, 2009, 8, 117.	2.3	24
65	Disease spread in age structured populations with maternal age effects. Ecology Letters, 2017, 20, 445-451.	6.4	24
66	Abundant asexuality in tropical freshwater ostracodes. Heredity, 1994, 73, 549-555.	2.6	23
67	Harnessing evolutionary biology to combat infectious disease. Nature Medicine, 2012, 18, 217-220.	30.7	23
68	Testing Small Clutch Size Models with Daphnia. American Naturalist, 2004, 163, 880-887.	2.1	21
69	THE CELLULAR IMMUNE RESPONSE OFDAPHNIA MAGNAUNDER HOST-PARASITE GENETIC VARIATION AND VARIATION IN INITIAL DOSE. Evolution; International Journal of Organic Evolution, 2012, 66, 3287-3293.	2.3	21
70	Daphnia magna micro<scp>RNA</scp>s respond to nutritional stress and ageing but are not transgenerational. Molecular Ecology, 2018, 27, 1402-1412.	3.9	21
71	Genome-wide methylation is modified by caloric restriction in Daphnia magna. BMC Genomics, 2019, 20, 197.	2.8	21
72	Candidate innate immune system gene expression in the ecological model Daphnia. Developmental and Comparative Immunology, 2011, 35, 1068-1077.	2.3	20

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73	The bacterial parasite <scp>P</scp>asteuria ramosa is not killed if it fails to infect: implications for coevolution. Ecology and Evolution, 2013, 3, 197-203.	1.9	20
74	Rapid change in parasite infection traits over the course of an epidemic in a wild hostâ€“parasite population. Oikos, 2014, 123, 232-238.	2.7	20
75	Testing the pluralist approach to sex: the influence of environment on synergistic interactions between mutation load and parasitism in Daphnia magna. Journal of Evolutionary Biology, 2006, 19, 1603-1611.	1.7	19
76	Male threeâ€spined sticklebacksGasterosteus aculeatusmake antibiotic nests: a novel form of parental protection?. Journal of Fish Biology, 2008, 73, 2380-2389.	1.6	19
77	Sex, linkage disequilibrium and patterns of parasitism in three species of cyclically parthenogenetic Daphnia (Cladocera: Crustacea). Heredity, 2000, 85, 257-265.	2.6	18
78	Identifying energy constraints to parasite resistance. Journal of Evolutionary Biology, 2011, 24, 224-229.	1.7	18
79	Transcriptome profiling during a natural host-parasite interaction. BMC Genomics, 2015, 16, 643.	2.8	18
80	DNA methylation differs extensively between strains of the same geographical origin and changes with age in Daphnia magna. Epigenetics and Chromatin, 2021, 14, 4.	3.9	18
81	Parasitism and breeding system variation in North American populations of Daphnia pulex. Ecological Research, 2008, 23, 235-240.	1.5	17
82	Elevated haemocyte number is associated with infection and low fitness potential in wild Daphnia magna. Functional Ecology, 2012, 26, 434-440.	3.6	17
83	Dissecting the effect of a heterogeneous environment on the interaction between host and parasite fitness traits. Evolutionary Ecology, 2011, 25, 499-508.	1.2	16
84	Testing hypotheses for maternal effects in Daphnia magna. Journal of Evolutionary Biology, 2018, 31, 211-216.	1.7	15
85	THE CLEARANCE OF HIDDEN CESTODE INFECTION TRIGGERED BY AN INDEPENDENT ACTIVATION OF HOST DEFENSE IN A TELEOST FISH. Journal of Parasitology, 2004, 90, 1329-1331.	0.7	13
86	The separate and combined effects of MHC genotype, parasite clone, and host gender on the course of malaria in mice. BMC Genetics, 2006, 7, 55.	2.7	13
87	Caging and Uncaging Genetics. PLoS Biology, 2016, 14, e1002525.	5.6	13
88	Genetic diversity and polyploidy in the cosmopolitan asexual ostracod Cypris pubera. Journal of Plankton Research, 2005, 27, 1287-1293.	1.8	11
89	Adaptive Evolution of a Stress Response Protein. PLoS ONE, 2007, 2, e1003.	2.5	11
90	HOST-PARASITE AND GENOTYPE-BY-ENVIRONMENT INTERACTIONS: TEMPERATURE MODIFIES POTENTIAL FOR SELECTION BY A STERILIZING PATHOGEN. Evolution; International Journal of Organic Evolution, 2005, 59, 70.	2.3	10

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91	An animal model to evaluate the function and regulation of the adaptively evolving stress protein SEP53 in oesophageal bile damage responses. Cell Stress and Chaperones, 2008, 13, 375-385.	2.9	8
92	Population-Genomic Analysis Identifies a Low Rate of Global Adaptive Fixation in the Proteins of the Cyclical ParthenogenDaphnia magna. Molecular Biology and Evolution, 2022, 39, .	8.9	8
93	Exploring the Molecular Landscape of Host-Parasite Coevolution. Cold Spring Harbor Symposia on Quantitative Biology, 2009, 74, 169-176.	1.1	7
94	Pathogen Dynamics across the Diversity of Aging. American Naturalist, 2021, 197, 203-215.	2.1	6
95	Daphnia magna modifies its gene expression extensively in response to caloric restriction revealing a novel effect on haemoglobin isoform preference. Molecular Ecology, 2020, 29, 3261-3276.	3.9	5
96	TEMPORAL PATTERNS OF GENETIC VARIATION FOR RESISTANCE AND INFECTIVITY IN A DAPHNIA-MICROPARASITE SYSTEM. Evolution; International Journal of Organic Evolution, 2001, 55, 1146.	2.3	4
97	Evolutionary Dynamics of Daphnia and Their Microparasites. , 2004, , 222-240.		2
98	Maternal effects on offspring consumption can stabilize fluctuating predatorâ€“prey systems. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20152173.	2.6	2
99	Effects of Juvenile Host Density and Food Availability on Adult Immune Response, Parasite Resistance and Virulence in a Daphnia-Parasite System. PLoS ONE, 2014, 9, e94569.	2.5	1
100	Daphnia magna egg piRNA cluster expression profiles change as mothers age. BMC Genomics, 2022, 23, .	2.8	1
101	Symposium Outcomes: Reconstructing the Network of Progressive Educators. Schools: Studies in Education, 2005, 2, 201-206.	0.2	0