

# Phillip C Watts

## List of Publications by Citations

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96  
papers

1,688  
citations

24  
h-index

35  
g-index

98  
ext. papers

2,031  
ext. citations

5  
avg, IF

4.67  
L-index

#	Paper	IF	Citations
96	Parthenogenesis in Komodo dragons. <i>Nature</i> , <b>2006</b> , 444, 1021-2	50.4	121
95	Compatible genetic and ecological estimates of dispersal rates in insect (Coenagrion mercuriale: Odonata: Zygoptera) populations: analysis of neighbourhood size using a more precise estimator. <i>Molecular Ecology</i> , <b>2007</b> , 16, 737-51	5.7	101
94	Plasticity of boldness in rainbow trout, <i>Oncorhynchus mykiss</i> : do hunger and predation influence risk-taking behaviour?. <i>Hormones and Behavior</i> , <b>2012</b> , 61, 750-7	3.7	61
93	Selection and gene flow on a diminishing cline of melanic peppered moths. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 16212-7	11.5	57
92	Odonata (dragonflies and damselflies) as a bridge between ecology and evolutionary genomics. <i>Frontiers in Zoology</i> , <b>2016</b> , 13, 46	2.8	52
91	Natural and anthropogenic dispersal mechanisms in the marine environment: a study using cheilostome Bryozoa. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>1998</b> , 353, 453-464	5.8	47
90	Environmental change alters personality in the rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Animal Behaviour</i> , <b>2013</b> , 85, 1199-1207	2.8	44
89	Physiological and genetic correlates of boldness: characterising the mechanisms of behavioural variation in rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Hormones and Behavior</i> , <b>2011</b> , 59, 67-74	3.7	44
88	Field estimates of reproductive success in a model insect: behavioural surrogates are poor predictors of fitness. <i>Ecology Letters</i> , <b>2011</b> , 14, 905-13	10	38
87	How useful is DNA extracted from the legs of archived insects for microsatellite-based population genetic analyses?. <i>Journal of Insect Conservation</i> , <b>2007</b> , 11, 195-198	2.1	38
86	The distribution of <i>Oxyrrhis marina</i> : a global disperser or poorly characterized endemic?. <i>Journal of Plankton Research</i> , <b>2011</b> , 33, 579-589	2.2	37
85	Effective population sizes and migration rates in fragmented populations of an endangered insect (Coenagrion mercuriale: Odonata). <i>Journal of Animal Ecology</i> , <b>2007</b> , 76, 790-800	4.7	36
84	Use of DNA barcoding to reveal species composition of convenience seafood. <i>Conservation Biology</i> , <b>2012</b> , 26, 367-71	6	33
83	Population structure and the impact of regional and local habitat isolation upon levels of genetic diversity of the endangered damselfly <i>Coenagrion mercuriale</i> (Odonata: Zygoptera). <i>Freshwater Biology</i> , <b>2006</b> , 51, 193-205	3.1	33
82	Patterns of genetic diversity in the marine heterotrophic flagellate <i>Oxyrrhis marina</i> (Alveolata: Dinophyceae). <i>Protist</i> , <b>2010</b> , 161, 212-21	2.5	31
81	First report of <i>Anaplasma phagocytophilum</i> and <i>Babesia microti</i> in rodents in Finland. <i>Vector-Borne and Zoonotic Diseases</i> , <b>2014</b> , 14, 389-93	2.4	30
80	Low dose of neonicotinoid insecticide reduces foraging motivation of bumblebees. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2018</b> , 285,	4.4	29

79	The transcriptome of the novel dinoflagellate <i>Oxyrrhis marina</i> (Alveolata: Dinophyceae): response to salinity examined by 454 sequencing. <i>BMC Genomics</i> , <b>2011</b> , 12, 519	4.5	29
78	Influence of contrasting larval developmental types upon the population-genetic structure of cheilostome bryozoans. <i>Marine Biology</i> , <b>2006</b> , 149, 1093-1101	2.5	29
77	Collection, isolation and culturing strategies for <i>Oxyrrhis marina</i> . <i>Journal of Plankton Research</i> , <b>2011</b> , 33, 569-578	2.2	27
76	Balancing selection maintains polymorphisms at neurogenetic loci in field experiments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 3690-3695	11.5	26
75	Bergmann's rule is maintained during a rapid range expansion in a damselfly. <i>Global Change Biology</i> , <b>2014</b> , 20, 475-82	11.4	26
74	Novel Hantavirus in Wildlife, United Kingdom. <i>Emerging Infectious Diseases</i> , <b>2013</b> , 19, 673-5	10.2	26
73	Patterns of spatial genetic structure and diversity at the onset of a rapid range expansion: colonisation of the UK by the small red-eyed damselfly <i>Erythromma viridulum</i> . <i>Biological Invasions</i> , <b>2010</b> , 12, 3887-3903	2.7	25
72	Environmental radiation alters the gut microbiome of the bank vole <i>Myodes glareolus</i> . <i>ISME Journal</i> , <b>2018</b> , 12, 2801-2806	11.9	23
71	Exposure to environmental radionuclides associates with tissue-specific impacts on telomerase expression and telomere length. <i>Scientific Reports</i> , <b>2019</b> , 9, 850	4.9	22
70	Strain-specific functional and numerical responses are required to evaluate impacts on predator-prey dynamics. <i>ISME Journal</i> , <b>2013</b> , 7, 405-16	11.9	22
69	<i>Oxyrrhis marina</i> growth, sex and reproduction. <i>Journal of Plankton Research</i> , <b>2011</b> , 33, 615-627	2.2	22
68	An analysis of the nematocysts of the beadlet anemone <i>Actinia equina</i> and the green sea anemone <i>Actinia prasina</i> . <i>Journal of the Marine Biological Association of the United Kingdom</i> , <b>2000</b> , 80, 719-724	1.1	22
67	High genetic diversity and fine-scale spatial structure in the marine flagellate <i>Oxyrrhis marina</i> (Dinophyceae) uncovered by microsatellite loci. <i>PLoS ONE</i> , <b>2010</b> , 5, e15557	3.7	21
66	Skin and gut microbiomes of a wild mammal respond to different environmental cues. <i>Microbiome</i> , <b>2018</b> , 6, 209	16.6	20
65	A legacy of contrasting spatial genetic structure on either side of the Atlantic-Mediterranean transition zone in a marine protist. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 20998-1003	11.5	19
64	Reproductive timing and patterns of development for the damselfly <i>Coenagrion puella</i> in the field. <i>Ecology</i> , <b>2009</b> , 90, 2202-12	4.6	19
63	First record of the invasive pest <i>Drosophila suzukii</i> in Ukraine indicates multiple sources of invasion. <i>Journal of Pest Science</i> , <b>2017</b> , 90, 421-429	5.5	18
62	Next generation sequencing yields the complete mitochondrial genome of the scarce blue-tailed damselfly, <i>Ischnura pumilio</i> . <i>Mitochondrial DNA</i> , <b>2014</b> , 25, 247-8		17

61	Twelve microsatellite loci for marine and riverine tucuxi dolphins ( <i>Sotalia guianensis</i> and <i>Sotalia fluviatilis</i> ). <i>Molecular Ecology Notes</i> , <b>2007</b> , 7, 1229-1231		16
60	Conservation implications of genetic variation between spatially and temporally distinct colonies of the endangered damselfly <i>Coenagrion mercuriale</i> . <i>Ecological Entomology</i> , <b>2005</b> , 30, 541-547	2.1	16
59	Fibroblasts from bank voles inhabiting Chernobyl have increased resistance against oxidative and DNA stresses. <i>BMC Cell Biology</i> , <b>2018</b> , 19, 17		15
58	Ecological mechanisms can modify radiation effects in a key forest mammal of Chernobyl. <i>Ecosphere</i> , <b>2019</b> , 10, e02667	3.1	14
57	Exposure to environmental radionuclides is associated with altered metabolic and immunity pathways in a wild rodent. <i>Molecular Ecology</i> , <b>2019</b> , 28, 4620-4635	5.7	14
56	Sex-biased inbreeding effects on reproductive success and home range size of the critically endangered black rhinoceros. <i>Conservation Biology</i> , <b>2014</b> , 28, 594-603	6	14
55	New EPIC nuclear DNA sequence markers to improve the resolution of phylogeographic studies of coenagrionids and other odonates. <i>International Journal of Odonatology</i> , <b>2014</b> , 17, 135-147	0.5	14
54	Prevalence of multiple mating by female common dormice, <i>Muscardinus avellanarius</i> . <i>Conservation Genetics</i> , <b>2011</b> , 12, 971-979	2.6	14
53	A Critically Endangered new dragonfly species from Morocco: <i>Onychogomphus boudoti</i> sp. nov. (Odonata: Gomphidae). <i>Zootaxa</i> , <b>2014</b> , 3856, 349-65	0.5	13
52	Development of a multiplex PCR assay for fine-scale population genetic analysis of the Komodo monitor <i>Varanus komodoensis</i> based on 18 polymorphic microsatellite loci. <i>Molecular Ecology Resources</i> , <b>2011</b> , 11, 550-6	8.4	13
51	Cross-species amplification of microsatellite loci in some European zygoteran species (Odonata: Coenagrionidae). <i>International Journal of Odonatology</i> , <b>2004</b> , 7, 87-96	0.5	13
50	Does Intraspecific Variation in rDNA Copy Number Affect Analysis of Microbial Communities?. <i>Trends in Microbiology</i> , <b>2021</b> , 29, 19-27	12.4	13
49	Closely related octopus species show different spatial genetic structures in response to the Antarctic seascape. <i>Ecology and Evolution</i> , <b>2017</b> , 7, 8087-8099	2.8	12
48	Transcriptional Upregulation of DNA Damage Response Genes in Bank Voles ( <i>Myodes glareolus</i> ) Inhabiting the Chernobyl Exclusion Zone. <i>Frontiers in Environmental Science</i> , <b>2018</b> , 5,	4.8	11
47	Polymorphic microsatellite loci isolated from the great scallop, <i>Pecten maximus</i> (Bivalvia: Pectinidae). <i>Molecular Ecology Notes</i> , <b>2005</b> , 5, 902-904		11
46	Impact of landscape on spatial genetic structure and diversity of <i>Coenagrion mercuriale</i> (Zygoptera:Coenagrionidae) in northern France. <i>Freshwater Science</i> , <b>2015</b> , 34, 1065-1078	2	10
45	Exposure to environmental radionuclides alters mitochondrial DNA maintenance in a wild rodent. <i>Evolutionary Ecology</i> , <b>2020</b> , 34, 163-174	1.8	9
44	Di-, tri- and tetranucleotide microsatellite loci for the giant panda, <i>Ailuropoda melanoleuca</i> . <i>Molecular Ecology Notes</i> , <b>2007</b> , 7, 1268-1270		9

43	Strong genetic divergence indicates that congeneric damselflies <i>Coenagrion puella</i> and <i>C. pulchellum</i> (Odonata: Zygoptera: Coenagrionidae) do not hybridise. <i>Hydrobiologia</i> , <b>2008</b> , 605, 55-63	2.4	9
42	Analysis of heteroplasmy in bank voles inhabiting the Chernobyl exclusion zone: A commentary on Baker et al. (2017) "Elevated mitochondrial genome variation after 50 generations of radiation exposure in a wild rodent.". <i>Evolutionary Applications</i> , <b>2018</b> , 11, 820-826	4.8	8
41	Genetic distinctiveness of the damselfly <i>Coenagrion puella</i> in North Africa: an overlooked and endangered taxon. <i>Conservation Genetics</i> , <b>2016</b> , 17, 985-991	2.6	8
40	A century-long genetic record reveals that protist effective population sizes are comparable to those of macroscopic species. <i>Biology Letters</i> , <b>2013</b> , 9, 20130849	3.6	8
39	Live fast, die old: no evidence of reproductive senescence or costs of mating in a damselfly (Odonata: Zygoptera). <i>Journal of Animal Ecology</i> , <b>2015</b> , 84, 1542-54	4.7	8
38	Temporal patterns of spatial genetic structure and effective population size in European plaice ( <i>Pleuronectes platessa</i> ) along the west coast of Scotland and in the Irish Sea. <i>ICES Journal of Marine Science</i> , <b>2010</b> , 67, 607-616	2.7	8
37	Isolation and characterization of 10 microsatellite loci in the common dormouse <i>Muscardinus avellanarius</i> . <i>Molecular Ecology Resources</i> , <b>2009</b> , 9, 1010-2	8.4	8
36	Applying the Anna Karenina principle for wild animal gut microbiota: Temporal stability of the bank vole gut microbiota in a disturbed environment. <i>Journal of Animal Ecology</i> , <b>2020</b> , 89, 2617-2630	4.7	8
35	Negative frequency-dependent selection is intensified at higher population densities in protist populations. <i>Biology Letters</i> , <b>2015</b> , 11, 20150192	3.6	7
34	Local extinctions and range contraction of the endangered <i>Coenagrion mercuriale</i> in North Africa. <i>International Journal of Odonatology</i> , <b>2015</b> , 18, 137-152	0.5	7
33	Hybridization between <i>Calopteryx splendens</i> and <i>C. haemorrhoidalis</i> confirmed by morphological and genetic analyses. <i>International Journal of Odonatology</i> , <b>2014</b> , 17, 149-160	0.5	7
32	Isolation by Time During an Arctic Phytoplankton Spring Bloom. <i>Journal of Eukaryotic Microbiology</i> , <b>2017</b> , 64, 248-256	3.6	7
31	Stabilizing selection on microsatellite allele length at arginine vasopressin 1a receptor and oxytocin receptor loci. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2017</b> , 284,	4.4	7
30	Characteristics of microsatellite loci in Odonata. <i>International Journal of Odonatology</i> , <b>2009</b> , 12, 275-286	0.5	7
29	Genetic structure of juvenile plaice <i>Pleuronectes platessa</i> on nursery grounds within the Irish Sea. <i>Journal of Sea Research</i> , <b>2004</b> , 51, 191-197	1.9	7
28	Ten microsatellite loci for the small red-eyed damselfly <i>Erythromma viridulum</i> (Charpentier). <i>Molecular Ecology Notes</i> , <b>2005</b> , 5, 788-790		7
27	Phenotypic Identification of three Genetically Differentiated Morphs of the Intertidal Beadlet Anemone <i>Actinia Equina</i> (Anthozoa: Cnidaria). <i>Journal of the Marine Biological Association of the United Kingdom</i> , <b>1998</b> , 78, 1365-1368	1.1	7
26	Intergenerational fitness effects of the early life environment in a wild rodent. <i>Journal of Animal Ecology</i> , <b>2019</b> , 88, 1355-1365	4.7	6

25	A rapid and cost-effective quantitative microsatellite genotyping protocol to estimate intraspecific competition in protist microcosm experiments. <i>Methods in Ecology and Evolution</i> , <b>2015</b> , 6, 315-323	7.7	6
24	A panel of microsatellite loci from two species of octopus, <i>Pareledone turqueti</i> (Joubin, 1905) and <i>Pareledone charcoti</i> (Joubin, 1905). <i>Molecular Ecology Resources</i> , <b>2009</b> , 9, 1239-42	8.4	6
23	Variable microsatellite loci isolated from the azure damselfly, <i>Coenagrion puella</i> (L.) (Zygoptera; Coenagrionidae). <i>Molecular Ecology Notes</i> , <b>2007</b> , 7, 880-882		6
22	The complete mitochondrial genome of the broad-winged damselfly <i>Mnais costalis</i> Selys (Odonata: Calopterygidae) obtained by next-generation sequencing. <i>International Journal of Odonatology</i> , <b>2016</b> , 19, 191-198	0.5	6
21	Genetic structure and gene flow of the flea <i>Xenopsylla cheopis</i> in Madagascar and Mayotte. <i>Parasites and Vectors</i> , <b>2017</b> , 10, 347	4	5
20	Enhancement of wildlife disease surveillance using multiplex quantitative PCR: development of qPCR assays for major pathogens in UK squirrel populations. <i>European Journal of Wildlife Research</i> , <b>2016</b> , 62, 589-599	2	5
19	Patterns of genetic divergence among populations of the common dormouse, <i>Muscardinus avellanarius</i> in the UK. <i>Molecular Biology Reports</i> , <b>2012</b> , 39, 1205-15	2.8	5
18	Genome characterisation of two Ljungan virus isolates from wild bank voles ( <i>Myodes glareolus</i> ) in Sweden. <i>Infection, Genetics and Evolution</i> , <b>2015</b> , 36, 156-164	4.5	4
17	Microsatellite loci from the endemic Southern Ocean octopus <i>Adelieledone polymorpha</i> (Robson, 1930). <i>Molecular Ecology Resources</i> , <b>2009</b> , 9, 1068-70	8.4	4
16	Contrasting levels of genetic differentiation among putative neutral microsatellite loci in Atlantic herring <i>Clupea harengus</i> populations and the implications for assessing stock structure. <i>Hydrobiologia</i> , <b>2008</b> , 606, 27-33	2.4	4
15	Polymorphic microsatellite loci in the European plaice, <i>Pleuronectes platessa</i> , and their utility in flounder, lemon sole and Dover sole. <i>Journal of the Marine Biological Association of the United Kingdom</i> , <b>2001</b> , 81, 367-368	1.1	4
14	Infection Load and Prevalence of Novel Viruses Identified from the Bank Vole Do Not Associate with Exposure to Environmental Radioactivity. <i>Viruses</i> , <b>2019</b> , 12,	6.2	3
13	Two hundred and fifty-four metagenome-assembled bacterial genomes from the bank vole gut microbiota. <i>Scientific Data</i> , <b>2020</b> , 7, 312	8.2	3
12	Comparable response of wild rodent gut microbiome to anthropogenic habitat contamination. <i>Molecular Ecology</i> , <b>2021</b> , 30, 3485-3499	5.7	3
11	High variation in last male sperm precedence and genital morphology in the emerald damselfly, <i>Lestes sponsa</i> . <i>Biological Journal of the Linnean Society</i> , <b>2020</b> , 130, 497-506	1.9	2
10	Early life of fathers affects offspring fitness in a wild rodent. <i>Journal of Evolutionary Biology</i> , <b>2019</b> , 32, 1141-1151	2.3	2
9	Microsatellite loci for two threatened dragonfly (Odonata: Anisoptera) species: <i>Oxygastra curtisii</i> (Dale, 1834) and <i>Macromia splendens</i> (Pictet, 1843). <i>Conservation Genetics Resources</i> , <b>2013</b> , 5, 1171-1174 <sup>0.8</sup>		2
8	Polymorphic microsatellite loci in the black-and-gold chromis, <i>Neoglyphidodon nigroris</i> (Teleostei: Pomacentridae). <i>Molecular Ecology Notes</i> , <b>2004</b> , 4, 93-95		2

7	Trinucleotide microsatellite loci in the yellow dung fly <i>Scathophaga stercoraria</i> (Diptera: Scathophagidae). <i>Molecular Ecology Notes</i> , <b>2005</b> , 5, 30-32		2
6	A reliable, single-step method for gender determination in black rhinoceros from low-copy template DNA. <i>Conservation Genetics Resources</i> , <b>2013</b> , 5, 655-657	0.8	1
5	Phenology determines seasonal variation in ectoparasite loads in a natural insect population. <i>Ecological Entomology</i> , <b>2010</b> , 35, no-no	2.1	1
4	Defining gut mycobiota for wild animals: a need for caution in assigning authentic resident fungal taxa. <i>Animal Microbiome</i> , <b>2021</b> , 3, 75	4.1	1
3	Low-level environmental metal pollution is associated with altered gut microbiota of a wild rodent, the bank vole ( <i>Myodes glareolus</i> ). <i>Science of the Total Environment</i> , <b>2021</b> , 790, 148224	10.2	1
2	Expansion of rDNA and pericentromere satellite repeats in the genomes of bank voles exposed to environmental radionuclides. <i>Ecology and Evolution</i> , <b>2021</b> , 11, 8754-8767	2.8	0
1	Eight microsatellite loci for the sexually transmitted, parasitic mite <i>Coccipolipus hippodamiae</i> . <i>Molecular Ecology Resources</i> , <b>2009</b> , 9, 619-21	8.4	