

# Phillip C Watts

## List of Publications by Year in descending order

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97  
papers

2,304  
citations

201575

27  
h-index

276775

41  
g-index

98  
all docs

98  
docs citations

98  
times ranked

3259  
citing authors

#	ARTICLE	IF	CITATIONS
1	Parthenogenesis in Komodo dragons. <i>Nature</i> , 2006, 444, 1021-1022.	13.7	176
2	Compatible genetic and ecological estimates of dispersal rates in insect (Coenagrion mercuriale:). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7</i> <i>Molecular Ecology</i> , 2006, 16, 737-751.	2.0	111
3	Odonata (dragonflies and damselflies) as a bridge between ecology and evolutionary genomics. <i>Frontiers in Zoology</i> , 2016, 13, 46.	0.9	75
4	Plasticity of boldness in rainbow trout, <i>Oncorhynchus mykiss</i> : do hunger and predation influence risk-taking behaviour?. <i>Hormones and Behavior</i> , 2012, 61, 750-757.	1.0	72
5	Does Intraspecific Variation in rDNA Copy Number Affect Analysis of Microbial Communities?. <i>Trends in Microbiology</i> , 2021, 29, 19-27.	3.5	71
6	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> , 2008, 105, 16212-16217.	3.3	65
7	Environmental change alters personality in the rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Animal Behaviour</i> , 2013, 85, 1199-1207.	0.8	63
8	Physiological and genetic correlates of boldness: Characterising the mechanisms of behavioural variation in rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Hormones and Behavior</i> , 2011, 59, 67-74.	1.0	62
9	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> , 1998, 353, 453-464.	1.8	56
10	Low dose of neonicotinoid insecticide reduces foraging motivation of bumblebees. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180506.	1.2	53
11	Field estimates of reproductive success in a model insect: behavioural surrogates are poor predictors of fitness. <i>Ecology Letters</i> , 2011, 14, 905-913.	3.0	48
12	Skin and gut microbiomes of a wild mammal respond to different environmental cues. <i>Microbiome</i> , 2018, 6, 209.	4.9	47
13	How useful is DNA extracted from the legs of archived insects for microsatellite-based population genetic analyses?. <i>Journal of Insect Conservation</i> , 2007, 11, 195-198.	0.8	45
14	The distribution of <i>Oxyrrhis marina</i> : a global disperser or poorly characterized endemic?. <i>Journal of Plankton Research</i> , 2011, 33, 579-589.	0.8	44
15	Environmental radiation alters the gut microbiome of the bank vole <i>Myodes glareolus</i> . <i>ISME Journal</i> , 2018, 12, 2801-2806.	4.4	44
16	Effective population sizes and migration rates in fragmented populations of an endangered insect (Coenagrion mercuriale: Odonata). <i>Journal of Animal Ecology</i> , 2007, 76, 790-800.	1.3	42
17	First Report of <i>Anaplasma phagocytophilum</i> and <i>Babesia microti</i> in Rodents in Finland. <i>Vector-Borne and Zoonotic Diseases</i> , 2014, 14, 389-393.	0.6	42
18	The transcriptome of the novel dinoflagellate <i>Oxyrrhis marina</i> (Alveolata: Dinophyceae): response to salinity examined by 454 sequencing. <i>BMC Genomics</i> , 2011, 12, 519.	1.2	38

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19	Influence of contrasting larval developmental types upon the population-genetic structure of cheilostome bryozoans. <i>Marine Biology</i> , 2006, 149, 1093-1101.	0.7	37
20	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> , 2006, 51, 193-205.	1.2	36
21	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> , 2017, 114, 3690-3695.	3.3	36
22	Exposure to environmental radionuclides associates with tissue-specific impacts on telomerase expression and telomere length. <i>Scientific Reports</i> , 2019, 9, 850.	1.6	34
23	Patterns of Genetic Diversity in the Marine Heterotrophic Flagellate <i>Oxyrrhis marina</i> (Alveolata): Tj ETQq1 1 0.784314 rgBT / Overlock 10	0.6	33
24	Use of DNA Barcoding to Reveal Species Composition of Convenience Seafood. <i>Conservation Biology</i> , 2012, 26, 367-371.	2.4	33
25	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> , 2010, 12, 3887-3903.	1.2	30
26	Collection, isolation and culturing strategies for <i>Oxyrrhis marina</i> . <i>Journal of Plankton Research</i> , 2011, 33, 569-578.	0.8	30
27	Bergmann's rule is maintained during a rapid range expansion in a damselfly. <i>Global Change Biology</i> , 2014, 20, 475-482.	4.2	30
28	First record of the invasive pest <i>Drosophila suzukii</i> in Ukraine indicates multiple sources of invasion. <i>Journal of Pest Science</i> , 2017, 90, 421-429.	1.9	28
29	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> , 2020, 89, 2617-2630.	1.3	28
30	Novel Hantavirus in Wildlife, United Kingdom. <i>Emerging Infectious Diseases</i> , 2013, 19, 673-675.	2.0	27
31	Strain-specific functional and numerical responses are required to evaluate impacts on predator-prey dynamics. <i>ISME Journal</i> , 2013, 7, 405-416.	4.4	25
32	Exposure to environmental radionuclides is associated with altered metabolic and immunity pathways in a wild rodent. <i>Molecular Ecology</i> , 2019, 28, 4620-4635.	2.0	25
33	<i>Oxyrrhis marina</i> growth, sex and reproduction. <i>Journal of Plankton Research</i> , 2011, 33, 615-627.	0.8	24
34	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> , 2000, 80, 719-724.	0.4	23
35	Reproductive timing and patterns of development for the damselfly <i>Coenagrion puellain</i> the field. <i>Ecology</i> , 2009, 90, 2202-2212.	1.5	22
36	Next generation sequencing yields the complete mitochondrial genome of the scarce blue-tailed damselfly, <i>Ischnura pumilio</i> . <i>Mitochondrial DNA</i> , 2014, 25, 247-248.	0.6	22

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37	Ecological mechanisms can modify radiation effects in a key forest mammal of Chernobyl. <i>Ecosphere</i> , 2019, 10, e02667.	1.0	22
38	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> , 2010, 5, e15557.	1.1	21
39	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> , 2012, 109, 20998-21003.	3.3	21
40	Sex-Biased Inbreeding Effects on Reproductive Success and Home Range Size of the Critically Endangered Black Rhinoceros. <i>Conservation Biology</i> , 2014, 28, 594-603.	2.4	20
41	Closely related octopus species show different spatial genetic structures in response to the Antarctic seascape. <i>Ecology and Evolution</i> , 2017, 7, 8087-8099.	0.8	20
42	Fibroblasts from bank voles inhabiting Chernobyl have increased resistance against oxidative and DNA stresses. <i>BMC Cell Biology</i> , 2018, 19, 17.	3.0	20
43	A Critically Endangered new dragonfly species from Morocco: <i>Onychogomphus boudoti</i> sp. nov. (Odonata: Gomphidae). <i>Zootaxa</i> , 2014, 3856, 349-65.	0.2	19
44	Conservation implications of genetic variation between spatially and temporally distinct colonies of the endangered damselfly <i>Coenagrion mercuriale</i> . <i>Ecological Entomology</i> , 2005, 30, 541-547.	1.1	17
45	Twelve microsatellite loci for marine and riverine tucuxi dolphins ( <i>Sotalia guianensis</i> and <i>Sotalia</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 1.7 17	1.7	17
46	New EPIC nuclear DNA sequence markers to improve the resolution of phylogeographic studies of coenagrionids and other odonates. <i>International Journal of Odonatology</i> , 2014, 17, 135-147.	0.5	17
47	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> , 2017, 284, 20171896.	1.2	17
48	Prevalence of multiple mating by female common dormice, <i>Muscardinus avellanarius</i> . <i>Conservation Genetics</i> , 2011, 12, 971-979.	0.8	16
49	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> , 2011, 11, 550-556.	2.2	15
50	Comparable response of wild rodent gut microbiome to anthropogenic habitat contamination. <i>Molecular Ecology</i> , 2021, 30, 3485-3499.	2.0	15
51	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> , 2021, 790, 148224.	3.9	15
52	Defining gut mycobiota for wild animals: a need for caution in assigning authentic resident fungal taxa. <i>Animal Microbiome</i> , 2021, 3, 75.	1.5	15
53	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> , 2018, 11, 820-826.	1.5	14
54	Cross-species amplification of microsatellite loci in some European zygopteran species (Odonata:) Tj ETQq0 0 0 rgBT /Overlock 0.5 13 10 Tf 50	0.5	13

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55	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> , 2018, 5, .	1.5	13
56	Two hundred and fifty-four metagenome-assembled bacterial genomes from the bank vole gut microbiota. <i>Scientific Data</i> , 2020, 7, 312.	2.4	13
57	Genetic distinctiveness of the damselfly <i>Coenagrion puella</i> in North Africa: an overlooked and endangered taxon. <i>Conservation Genetics</i> , 2016, 17, 985-991.	0.8	12
58	Polymorphic microsatellite loci isolated from the great scallop, <i>Pecten maximus</i> (Bivalvia: Pectinidae). <i>Molecular Ecology Notes</i> , 2005, 5, 902-904.	1.7	11
59	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> , 2010, 67, 607-616.	1.2	11
60	A century-long genetic record reveals that protist effective population sizes are comparable to those of macroscopic species. <i>Biology Letters</i> , 2013, 9, 20130849.	1.0	11
61	Live fast, die old: no evidence of reproductive senescence or costs of mating in a damselfly ( <i>Zygoptera</i> ). <i>Journal of Animal Ecology</i> , 2015, 84, 1542-1554.	1.3	11
62	Impact of landscape on spatial genetic structure and diversity of <i>Coenagrion mercuriale</i> ( <i>Zygoptera</i> : <i>Coenagrionidae</i> ) in northern France. <i>Freshwater Science</i> , 2015, 34, 1065-1078.	0.9	11
63	Exposure to environmental radionuclides alters mitochondrial DNA maintenance in a wild rodent. <i>Evolutionary Ecology</i> , 2020, 34, 163-174.	0.5	11
64	Di-, tri- and tetranucleotide microsatellite loci for the giant panda, <i>Ailuropoda melanoleuca</i> . <i>Molecular Ecology Notes</i> , 2007, 7, 1268-1270.	1.7	10
65	Strong genetic divergence indicates that congeneric damselflies <i>Coenagrion puella</i> and <i>C. pulchellum</i> ( <i>Odonata</i> : <i>Zygoptera</i> : <i>Coenagrionidae</i> ) do not hybridise. <i>Hydrobiologia</i> , 2008, 605, 55-63.	1.0	10
66	Isolation by Time During an Arctic Phytoplankton Spring Bloom. <i>Journal of Eukaryotic Microbiology</i> , 2017, 64, 248-256.	0.8	10
67	Isolation and characterization of 10 microsatellite loci in the common dormouse <i>Muscardinus avellanarius</i> . <i>Molecular Ecology Resources</i> , 2009, 9, 1010-1012.	2.2	9
68	Phenology determines seasonal variation in ectoparasite loads in a natural insect population. <i>Ecological Entomology</i> , 2010, 35, 514-522.	1.1	9
69	Hybridization between <i>Calopteryx splendens</i> and <i>C. haemorrhoidalis</i> confirmed by morphological and genetic analyses. <i>International Journal of Odonatology</i> , 2014, 17, 149-160.	0.5	9
70	Local extinctions and range contraction of the endangered <i>Coenagrion mercuriale</i> in North Africa. <i>International Journal of Odonatology</i> , 2015, 18, 137-152.	0.5	9
71	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> , 2016, 62, 589-599.	0.7	9
72	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> , 1998, 78, 1365-1368.	0.4	8

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73	Patterns of genetic divergence among populations of the common dormouse, <i>Muscardinus avellanarius</i> in the UK. <i>Molecular Biology Reports</i> , 2012, 39, 1205-1215.	1.0	8
74	Genome characterisation of two Ljungan virus isolates from wild bank voles ( <i>Myodes glareolus</i> ) in Sweden. <i>Infection, Genetics and Evolution</i> , 2015, 36, 156-164.	1.0	8
75	Intergenerational fitness effects of the early life environment in a wild rodent. <i>Journal of Animal Ecology</i> , 2019, 88, 1355-1365.	1.3	8
76	Genetic structure of juvenile plaice <i>Pleuronectes platessa</i> on nursery grounds within the Irish Sea. <i>Journal of Sea Research</i> , 2004, 51, 191-197.	0.6	7
77	Ten microsatellite loci for the small red-eyed damselfly <i>Erythromma viridulum</i> (Charpentier). <i>Molecular Ecology Notes</i> , 2005, 5, 788-790.	1.7	7
78	Characteristics of microsatellite loci in Odonata. <i>International Journal of Odonatology</i> , 2009, 12, 275-286.	0.5	7
79	Negative frequency-dependent selection is intensified at higher population densities in protist populations. <i>Biology Letters</i> , 2015, 11, 20150192.	1.0	7
80	Expansion of rDNA and pericentromere satellite repeats in the genomes of bank voles <i>Myodes glareolus</i> exposed to environmental radionuclides. <i>Ecology and Evolution</i> , 2021, 11, 8754-8767.	0.8	7
81	Variable microsatellite loci isolated from the azure damselfly, <i>Coenagrion puella</i> (L.) (Zygoptera). <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i>	1.7	6
82	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> , 2009, 9, 1239-1242.	2.2	6
83	A rapid and cost-effective quantitative microsatellite genotyping protocol to estimate intraspecific competition in protist microcosm experiments. <i>Methods in Ecology and Evolution</i> , 2015, 6, 315-323.	2.2	6
84	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> , 2016, 19, 191-198.	0.5	6
85	Infection Load and Prevalence of Novel Viruses Identified from the Bank Vole Do Not Associate with Exposure to Environmental Radioactivity. <i>Viruses</i> , 2020, 12, 44.	1.5	6
86	Genetic structure and gene flow of the flea <i>Xenopsylla cheopis</i> in Madagascar and Mayotte. <i>Parasites and Vectors</i> , 2017, 10, 347.	1.0	5
87	Early life of fathers affects offspring fitness in a wild rodent. <i>Journal of Evolutionary Biology</i> , 2019, 32, 1141-1151.	0.8	5
88	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> , 2001, 81, 367-368.	0.4	4
89	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> , 2008, 606, 27-33.	1.0	4
90	Microsatellite loci from the endemic Southern Ocean octopus <i>Adelieledone polymorpha</i> (Robson). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6</i>	2.2	4

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91	Interpretation of gut microbiota data in the "eye of the beholder": A commentary and re-evaluation of data from "Impacts of radiation exposure on the bacterial and fungal microbiome of small mammals in the Chernobyl Exclusion Zone". <i>Journal of Animal Ecology</i> , 2022, 91, 1535-1545.	1.3	4
92	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> , 2020, 130, 497-506.	0.7	3
93	Polymorphic microsatellite loci in the black-and-gold chromis, <i>Neoglyphidodon nigroris</i> (Teleostei): Tj ETQq1 1 0.784314 rgBT <sub>2</sub> /Overlo	1.7	2
94	Trinucleotide microsatellite loci in the yellow dung fly <i>Scathophaga stercoraria</i> (Diptera): Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (S	1.7	2
95	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> , 2013, 5, 1171-1174.	0.4	2
96	A reliable, single-step method for gender determination in black rhinoceros from low-copy template DNA. <i>Conservation Genetics Resources</i> , 2013, 5, 655-657.	0.4	1
97	Eight microsatellite loci for the sexually transmitted, parasitic mite <i>Coccipolipus hippodamiae</i> . <i>Molecular Ecology Resources</i> , 2009, 9, 619-621.	2.2	0