Richard H Ffrench-Constant

List of Publications by Year
in descending order

80 papers	7,050 citations	66343 42 h-index	66911 78 g-index
93 all docs	93 docs citations	93 times ranked	6514 citing authors

#	Article	IF	Citations
1	A point mutation in a Drosophila GABA receptor confers insecticide resistance. Nature, 1993, 363, 449-451.	27.8	520
2	Chromosomal rearrangements maintain a polymorphic supergene controlling butterfly mimicry. Nature, 2011, 477, 203-206.	27.8	509
3	Insecticidal Toxins from the Bacterium <i>Photorhabdus luminescens</i>. Science, 1998, 280, 2129-2132.	12.6	395
4	The genetics and genomics of insecticide resistance. Trends in Genetics, 2004, 20, 163-170.	6.7	336
5	Resistance to xenobiotics and parasites: can we count the cost?. Trends in Ecology and Evolution, 2000, 15, 378-383.	8.7	272
6	The Molecular Genetics of Insecticide Resistance. Genetics, 2013, 194, 807-815.	2.9	238
7	<i>Cis</i>-Regulatory Elements in the <i>Accord</i> Retrotransposon Result in Tissue-Specific Expression of the <i>Drosophila melanogaster</i> Insecticide Resistance Gene <i>Cyp6g1</i>. Genetics, 2007, 175, 1071-1077.	2.9	233
8	Insecticidal toxins from Photorhabdus bacteria and their potential use in agriculture. Toxicon, 2007, 49, 436-451.	1.6	229
9	<i>Photorhabdus</i>: towards a functional genomic analysis of a symbiont and pathogen. FEMS Microbiology Reviews, 2003, 26, 433-456.	8.6	213
10	The tc genes of Photorhabdus: a growing family. Trends in Microbiology, 2001, 9, 185-191.	7.7	205
11	An antibiotic produced by an insect-pathogenic bacterium suppresses host defenses through phenoloxidase inhibition. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2419-2424.	7.1	199
12	Evaluating the insecticide resistance potential of eight Drosophila melanogaster cytochrome P450 genes by transgenic over-expression. Insect Biochemistry and Molecular Biology, 2007, 37, 512-519.	2.7	199
13	Cyclodiene Insecticide Resistance: From Molecular to Population Genetics. Annual Review of Entomology, 2000, 45, 449-466.	11.8	191
14	A Novel Insecticidal Toxin from <i>Photorhabdus luminescens</i> , Toxin Complex a (Tca), and Its Histopathological Effects on the Midgut of <i>Manduca sexta</i>. Applied and Environmental Microbiology, 1998, 64, 3036-3041.	3.1	143
15	A Drosophila systems approach to xenobiotic metabolism. Physiological Genomics, 2007, 30, 223-231.	2.3	139
16	Xenobiotic response in Drosophila melanogaster: Sex dependence of P450 and GST gene induction. Insect Biochemistry and Molecular Biology, 2006, 36, 674-682.	2.7	138
17	Does resistance really carry a fitness cost?. Current Opinion in Insect Science, 2017, 21, 39-46.	4.4	129
18	ThePhotorhabdusPir toxins are similar to a developmentally regulated insect protein but show no juvenile hormone esterase activity. FEMS Microbiology Letters, 2005, 245, 47-52.	1.8	112

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19	RNAi suppression of recognition protein mediated immune responses in the tobacco hornworm Manduca sexta causes increased susceptibility to the insect pathogen Photorhabdus. Developmental and Comparative Immunology, 2006, 30, 1099-1107.	2.3	109
20	Prior infection of Manduca sexta with non-pathogenic Escherichia coli elicits immunity to pathogenic Photorhabdus luminescens: Roles of immune-related proteins shown by RNA interference. Insect Biochemistry and Molecular Biology, 2006, 36, 517-525.	2.7	108
21	Comparative genomics of the emerging human pathogen Photorhabdus asymbiotica with the insect pathogen Photorhabdus luminescens. BMC Genomics, 2009, 10, 302.	2.8	96
22	Human infection with Photorhabdus asymbiotica: an emerging bacterial pathogen. Microbes and Infection, 2004, 6, 229-237.	1.9	93
23	Changes in DNA methylation are associated with loss of insecticide resistance in the peach-potato aphid Myzus persicae (Sulz.). FEBS Letters, 1989, 243, 323-327.	2.8	91
24	Light pollution is associated with earlier tree budburst across the United Kingdom. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160813.	2.6	91
25	An ABC Guide to the Bacterial Toxin Complexes. Advances in Applied Microbiology, 2005, 58C, 169-183.	2.4	90
26	Ion channels as insecticide targets. Journal of Neurogenetics, 2016, 30, 163-177.	1.4	84
27	Drosophila ?-Aminobutyric Acid Receptor Gene Rdl Shows Extensive Alternative Splicing. Journal of Neurochemistry, 1993, 60, 2323-2326.	3.9	81
28	DDT resistance in flies carries no cost. Current Biology, 2005, 15, R587-R589.	3.9	78
29	Pyrosequencing of the midgut transcriptome of the poplar leaf beetle Chrysomela tremulae reveals new gene families in Coleoptera. Insect Biochemistry and Molecular Biology, 2009, 39, 403-413.	2.7	78
30	Multiple Origins of Cyclodiene Insecticide Resistance in Tribolium castaneum (Coleoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td	1.8	73
31	Metabolic compensation constrains the temperature dependence of gross primary production. Ecology Letters, 2017, 20, 1250-1260.	6.4	73
32	Genomic islands in Photorhabdus. Trends in Microbiology, 2002, 10, 541-545.	7.7	71
33	Drosophila Embryos as Model Systems for Monitoring Bacterial Infection in Real Time. PLoS Pathogens, 2009, 5, e1000518.	4.7	70
34	Dissecting the immune response to the entomopathogen Photorhabdus. Trends in Microbiology, 2010, 18, 552-560.	7.7	70
35	Nematode Symbiont for<i>Photorhabdus asymbiotica</i>. Emerging Infectious Diseases, 2006, 12, 1562-1564.	4.3	69
36	Shedding light on moths: shorter wavelengths attract noctuids more than geometrids. Biology Letters, 2013, 9, 20130376.	2.3	62

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37	Oral Toxicity of Photorhabdus luminescens W14 Toxin Complexes in Escherichia coli. Applied and Environmental Microbiology, 2001, 67, 5017-5024.	3.1	61
38	Butterfly wing pattern mutants: developmental heterochrony and co-ordinately regulated phenotypes. Development Genes and Evolution, 2000, 210, 536-544.	0.9	60
39	The insecticidal toxin Makes caterpillars floppy 2 (Mcf2) shows similarity to HrmA, an avirulence protein from a plant pathogen. FEMS Microbiology Letters, 2003, 229, 265-270.	1.8	56
40	Global patterns in genomic diversity underpinning the evolution of insecticide resistance in the aphid crop pest Myzus persicae. Communications Biology, 2021, 4, 847.	4.4	55
41	Genetic and biochemical characterization of PrtA, an RTX-like metalloprotease from Photorhabdus. Microbiology (United Kingdom), 2003, 149, 1581-1591.	1.8	53
42	Homology modelling of <i>Drosophila</i> cytochrome P450 enzymes associated with insecticide resistance. Pest Management Science, 2010, 66, 1106-1115.	3.4	52
43	Insect Pigmentation: Activities of beta-Alanyldopamine Synthase in Wing Color Patterns of Wild-Type and Melanic Mutant Swallowtail Butterfly Papilio glaucus1. Pigment Cell & Melanoma Research, 2000, 13, 54-58.	3.6	50
44	Characterization of 36 polymorphic microsatellite loci in the Kentish plover (Charadrius) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (a Molecular Ecology Notes, 2006, 7, 35-39.	1.7	45
45	Which came first: insecticides or resistance?. Trends in Genetics, 2007, 23, 1-4.	6.7	45
46	The Mcf1 toxin induces apoptosis via the mitochondrial pathway and apoptosis is attenuated by mutation of the BH3-like domain. Cellular Microbiology, 2007, 9, 2470-2484.	2.1	44
47	A neo-W chromosome in a tropical butterfly links colour pattern, male-killing, and speciation. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160821.	2.6	44
48	Whole-chromosome hitchhiking driven by a male-killing endosymbiont. PLoS Biology, 2020, 18, e3000610.	5.6	44
49	Dissecting the insecticide-resistance- associated cytochrome P450 geneCyp6g1. Pest Management Science, 2008, 64, 639-645.	3.4	42
50	White butterflies as solar photovoltaic concentrators. Scientific Reports, 2015, 5, 12267.	3.3	36
51	Temperatureâ€driven selection on metabolic traits increases the strength of an algalâ€“grazer interaction in naturally warmed streams. Global Change Biology, 2018, 24, 1793-1803.	9.5	36
52	From Insect to Man: Photorhabdus Sheds Light on the Emergence of Human Pathogenicity. PLoS ONE, 2015, 10, e0144937.	2.5	33
53	Butterflies on the brink: habitat requirements for declining populations of the marsh fritillary (Euphydryas aurinia) in SW England. Journal of Insect Conservation, 2011, 15, 153-163.	1.4	31
54	Sacred sites as hotspots for biodiversity: the Three Sisters Cave complex in coastal Kenya. Oryx, 2010, 44, 118.	1.0	30

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55	Recent advances in the remote sensing of insects. Biological Reviews, 2022, 97, 343-360.	10.4	30
56	Insect pathogenicity islands in the insect pathogenic bacterium Photorhabdus. Physiological Entomology, 2004, 29, 240-250.	1.5	26
57	WING SHAPE VARIATION ASSOCIATED WITH MIMICRY IN BUTTERFLIES. Evolution; International Journal of Organic Evolution, 2013, 67, 2323-2334.	2.3	26
58	Stepwise evolution of a butterfly supergene via duplication and inversion. Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, .	4.0	24
59	A nematode symbiont sheds light on invertebrate immunity. Trends in Parasitology, 2007, 23, 514-517.	3.3	22
60	A single locus from the entomopathogenic bacterium<i>Photorhabdus luminescens</i>inhibits activated<i>Manduca sexta</i>phenoloxidase. FEMS Microbiology Letters, 2009, 293, 170-176.	1.8	21
61	An ABC guide to the bacterial toxin complexes. Advances in Applied Microbiology, 2006, 58, 169-83.	2.4	20
62	Xentrivalpeptides Aâ€"Q: Depsipeptide Diversification inXenorhabdus. Journal of Natural Products, 2012, 75, 1717-1722.	3.0	18
63	Karyotypes versus Genomes: The Nymphalid Butterflies Melitaea cinxia, Danaus plexippus, and D. chrysippus. Cytogenetic and Genome Research, 2017, 153, 46-53.	1.1	17
64	The combined use of immunoassay and a DNA diagnostic technique to identify insecticide-resistant genotypes in the peach-potato aphid, Myzus persicae (Sulz.). Pesticide Biochemistry and Physiology, 1989, 34, 174-178.	3.6	16
65	Isolation and Characterization of Microsatellite Markers from the Endangered Karner Blue Butterfly Lycaeides Melissa Samuelis (Lepidoptera). Hereditas, 2004, 134, 271-273.	1.4	16
66	The KdpD/KdpE two-component system of Photorhabdus asymbiotica promotes bacterial survival within M. sexta hemocytes. Journal of Invertebrate Pathology, 2010, 105, 352-362.	3.2	14
67	GABA Receptor Minigene Rescues Insecticide Resistance Phenotypes inDrosophila. Journal of Molecular Biology, 1995, 253, 223-227.	4.2	13
68	Methoxy-resorufin ether as an electrochemically active biological probe for cytochrome P450 O-demethylation. Bioelectrochemistry, 2006, 68, 67-71.	4.6	13
69	Neo Sex Chromosomes, Colour Polymorphism and Male-Killing in the African Queen Butterfly, Danaus chrysippus (L.). Insects, 2019, 10, 291.	2.2	11
70	Offspring sex ratio in the sequentially polygamous Penduline Tit Remiz pendulinus. Journal of Ornithology, 2008, 149, 521-527.	1.1	10
71	Insecticide resistance comes of age. Genome Biology, 2014, 15, 106.	9.6	8
72	Whatâ€™s in the Gift? Towards a Molecular Dissection of Nuptial Feeding in a Cricket. PLoS ONE, 2015, 10, e0140191.	2.5	8

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73	Genome assembly of <i>Danaus chrysippus</i> and comparison with the Monarch <i>Danaus plexippus</i>. G3: Genes, Genomes, Genetics, 2022, 12, .	1.8	8
74	Photorhabdus Toxins. Advances in Insect Physiology, 2014, , 343-388.	2.7	7
75	Optical Modelling and Phylogenetic Analysis Provide Clues to the Likely Function of Corneal Nipple Arrays in Butterflies and Moths. Insects, 2019, 10, 262.	2.2	5
76	Photorhabdus: towards a functional genomic analysis of a symbiont and pathogen. FEMS Microbiology Reviews, 2003, 26, 433-456.	8.6	3
77	Of monarchs and migration. Nature, 2014, 514, 314-315.	27.8	1
78	Hybrid effects in field populations of the African monarch butterfly, <i>Danaus chrysippus</i> (L.) (Lepidoptera: Nymphalidae). Biological Journal of the Linnean Society, 2021, 133, 671-684.	1.6	1
79	Sex, butterflies and molecular biology: when pigmentation met mimicry. Pigment Cell and Melanoma Research, 2014, 27, 507-508.	3.3	0
80	Butterfly gene flow goes berserk. Genome Biology, 2016, 17, 30.	8.8	0