

Joachim Kurtz

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104
papers

4,557
citations

37
h-index

65
g-index

181
ext. papers

5,255
ext. citations

5.1
avg, IF

5.88
L-index

#	Paper	IF	Citations
104	Innate defence: evidence for memory in invertebrate immunity. <i>Nature</i> , 2003 , 425, 37-8	50.4	324
103	Parasite selection for immunogenetic optimality. <i>Science</i> , 2003 , 301, 1343	33.3	252
102	Specific memory within innate immune systems. <i>Trends in Immunology</i> , 2005 , 26, 186-92	14.4	251
101	Introduction. Ecological immunology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009 , 364, 3-14	5.8	196
100	Major histocompatibility complex diversity influences parasite resistance and innate immunity in sticklebacks. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004 , 271, 197-204	4.4	174
99	Strain-specific priming of resistance in the red flour beetle, <i>Tribolium castaneum</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009 , 276, 145-51	4.4	172
98	Paternally derived immune priming for offspring in the red flour beetle, <i>Tribolium castaneum</i> . <i>Journal of Animal Ecology</i> , 2010 , 79, 403-13	4.7	170
97	Immune memory in invertebrates. <i>Seminars in Immunology</i> , 2016 , 28, 328-42	10.7	145
96	Gender differences and individual variation in the immune system of the scorpionfly <i>Panorpa vulgaris</i> (Insecta: Mecoptera). <i>Developmental and Comparative Immunology</i> , 2000 , 24, 1-12	3.2	128
95	Cryptic male choice: sperm allocation strategies when female quality varies. <i>Journal of Evolutionary Biology</i> , 2002 , 15, 201-209	2.3	120
94	Alternative adaptive immunity in invertebrates. <i>Trends in Immunology</i> , 2006 , 27, 493-6	14.4	116
93	Phagocytosis mediates specificity in the immune defence of an invertebrate, the woodlouse <i>Porcellio scaber</i> (Crustacea: Isopoda). <i>Developmental and Comparative Immunology</i> , 2009 , 33, 1151-5	3.2	90
92	Local differences in immunocompetence reflect resistance of sticklebacks against the eye fluke <i>Diplostomum pseudospathaceum</i> . <i>Parasitology</i> , 2006 , 132, 105-16	2.7	90
91	The immunocompetence handicap hypothesis: testing the genetic predictions. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1999 , 266, 2515-22	4.4	81
90	Heat and immunity: an experimental heat wave alters immune functions in three-spined sticklebacks (<i>Gasterosteus aculeatus</i>). <i>Journal of Animal Ecology</i> , 2014 , 83, 744-57	4.7	80
89	Juvenile immune system activation induces a costly upregulation of adult immunity in field crickets <i>Gryllus campestris</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005 , 272, 63-9	4.4	80
88	Memory in the innate and adaptive immune systems. <i>Microbes and Infection</i> , 2004 , 6, 1410-7	9.3	78

87	An experimental test of the immunocompetence handicap hypothesis in a teleost fish: 11-ketotestosterone suppresses innate immunity in three-spined sticklebacks. <i>American Naturalist</i> , 2007 , 170, 509-19	3.7	75
86	Mating System and Sexual Selection in the Scorpionfly <i>Panorpa vulgaris</i> (Mecoptera: Panorpidae). <i>Die Naturwissenschaften</i> , 1998 , 85, 219-228	2	73
85	Modulation of granulocyte responses in three-spined sticklebacks <i>Gasterosteus aculeatus</i> infected with the tapeworm <i>Schistocephalus solidus</i> . <i>Diseases of Aquatic Organisms</i> , 2004 , 59, 141-50	1.7	72
84	Dscam and pancrustacean immune memory - a review of the evidence. <i>Developmental and Comparative Immunology</i> , 2015 , 48, 315-23	3.2	64
83	Gender differences in phenoloxidase activity of <i>Panorpa vulgaris</i> hemocytes. <i>Journal of Invertebrate Pathology</i> , 2001 , 78, 53-5	2.6	61
82	Immune priming in arthropods: an update focusing on the red flour beetle. <i>Zoology</i> , 2016 , 119, 254-61	1.7	60
81	MHC genes and oxidative stress in sticklebacks: an immuno-ecological approach. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006 , 273, 1407-14	4.4	55
80	Host-Pathogen Coevolution: The Selective Advantage of <i>Bacillus thuringiensis</i> Virulence and Its Cry Toxin Genes. <i>PLoS Biology</i> , 2015 , 13, e1002169	9.7	55
79	The red flour beetle as a model for bacterial oral infections. <i>PLoS ONE</i> , 2013 , 8, e64638	3.7	55
78	Different effects of paternal trans-generational immune priming on survival and immunity in step and genetic offspring. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014 , 281,	4.4	51
77	Juvenile immune status affects the expression of a sexually selected trait in field crickets. <i>Journal of Evolutionary Biology</i> , 2005 , 18, 1060-8	2.3	49
76	Genetic variation in MHC class II expression and interactions with MHC sequence polymorphism in three-spined sticklebacks. <i>Molecular Ecology</i> , 2006 , 15, 1153-64	5.7	48
75	Oral immune priming with <i>Bacillus thuringiensis</i> induces a shift in the gene expression of <i>Tribolium castaneum</i> larvae. <i>BMC Genomics</i> , 2017 , 18, 329	4.5	46
74	Outcrossing increases infection success and competitive ability: experimental evidence from a hermaphrodite parasite. <i>Evolution; International Journal of Organic Evolution</i> , 2002 , 56, 2243-51	3.8	46
73	Infection routes matter in population-specific responses of the red flour beetle to the entomopathogen <i>Bacillus thuringiensis</i> . <i>BMC Genomics</i> , 2014 , 15, 445	4.5	45
72	Microbiota Plays a Role in Oral Immune Priming in <i>Tribolium castaneum</i> . <i>Frontiers in Microbiology</i> , 2015 , 6, 1383	5.7	44
71	To avoid or eliminate: cestode infections in copepods. <i>Parasitology</i> , 2002 , 124, 465-74	2.7	43
70	The evolution of Dscam genes across the arthropods. <i>BMC Evolutionary Biology</i> , 2012 , 12, 53	3	42

69	Phagocytosis by invertebrate hemocytes: causes of individual variation in <i>Panorpa vulgaris</i> scorpionflies. <i>Microscopy Research and Technique</i> , 2002 , 57, 456-68	2.8	39
68	A summer heat wave decreases the immunocompetence of the mesograzer, <i>Idotea baltica</i> . <i>Marine Biology</i> , 2010 , 157, 1605-1611	2.5	37
67	Increased survival in the red flour beetle after oral priming with bacteria-conditioned media. <i>Journal of Innate Immunity</i> , 2014 , 6, 306-14	6.9	34
66	Surface carbohydrate composition of a tapeworm in its consecutive intermediate hosts: individual variation and fitness consequences. <i>International Journal for Parasitology</i> , 2005 , 35, 1499-507	4.3	34
65	Altered host behaviour: manipulation or energy depletion in tapeworm-infected copepods?. <i>Parasitology</i> , 2002 , 125, 187-96	2.7	34
64	A temperature shock can lead to trans-generational immune priming in the Red Flour Beetle, <i>Tribolium castaneum</i> . <i>Ecology and Evolution</i> , 2015 , 5, 1318-26	2.8	33
63	Effects of environmental variation on host-parasite interaction in three-spined sticklebacks (<i>Gasterosteus aculeatus</i>). <i>Zoology</i> , 2016 , 119, 375-83	1.7	32
62	Evolutionary implications of the adaptation to different immune systems in a parasite with a complex life cycle. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005 , 272, 2511-8	4.4	32
61	Experimental evolution of external immune defences in the red flour beetle. <i>Journal of Evolutionary Biology</i> , 2014 , 27, 1562-71	2.3	31
60	Genetic variability in the diapause response of the burnet moth <i>Zygaena trifolii</i> (Lepidoptera: Zygaenidae). <i>Journal of Insect Physiology</i> , 2000 , 46, 127-134	2.4	29
59	The stimulation of immune defence accelerates development in the red flour beetle (<i>Tribolium castaneum</i>). <i>Journal of Evolutionary Biology</i> , 2008 , 21, 1703-10	2.3	27
58	Experimental evolution of immunological specificity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 20598-20604	11.5	27
57	Excretory products of the cestode, <i>Schistocephalus solidus</i> , modulate in vitro responses of leukocytes from its specific host, the three-spined stickleback (<i>Gasterosteus aculeatus</i>). <i>Fish and Shellfish Immunology</i> , 2013 , 35, 1779-87	4.3	25
56	In vitro leukocyte response of three-spined sticklebacks (<i>Gasterosteus aculeatus</i>) to helminth parasite antigens. <i>Fish and Shellfish Immunology</i> , 2014 , 36, 130-40	4.3	25
55	<i>Schistocephalus solidus</i> : establishment of tapeworms in sticklebacks--fast food or fast lane?. <i>Experimental Parasitology</i> , 2007 , 116, 142-9	2.1	25
54	Quantitative profiling of <i>Drosophila melanogaster</i> Dscam1 isoforms reveals no changes in splicing after bacterial exposure. <i>PLoS ONE</i> , 2014 , 9, e108660	3.7	25
53	Dnmt1 has an essential function despite the absence of CpG DNA methylation in the red flour beetle <i>Tribolium castaneum</i> . <i>Scientific Reports</i> , 2018 , 8, 16462	4.9	25
52	Ecological immunology of a tapeworms interaction with its two consecutive hosts. <i>Advances in Parasitology</i> , 2009 , 68, 111-37	3.2	24

51	Environmental temperature variation influences fitness trade-offs and tolerance in a fish-tapeworm association. <i>Parasites and Vectors</i> , 2017 , 10, 252	4	23
50	A Novel Mechanism of Immune Memory Unveiled at the Invertebrate-Parasite Interface. <i>Trends in Parasitology</i> , 2016 , 32, 353-355	6.4	23
49	Dscam in immunity: A question of diversity in insects and crustaceans. <i>Developmental and Comparative Immunology</i> , 2020 , 105, 103539	3.2	22
48	in Pancrustacean Immunity: Current Status and a Look to the Future. <i>Frontiers in Immunology</i> , 2017 , 8, 662	8.4	21
47	Evaluation of an innate immune reaction to parasites in earthworms. <i>Journal of Invertebrate Pathology</i> , 2004 , 86, 45-9	2.6	21
46	Meiotic drive and evolution of female choice. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1999 , 266, 1341-5	4.4	21
45	Specificity of oral immune priming in the red flour beetle. <i>Biology Letters</i> , 2017 , 13,	3.6	19
44	Cu,Zn Superoxide Dismutase Genes in : Evolution, Molecular Characterisation, and Gene Expression during Immune Priming. <i>Frontiers in Immunology</i> , 2017 , 8, 1811	8.4	18
43	Fluorescent vital labeling to track cestodes in a copepod intermediate host. <i>Experimental Parasitology</i> , 2002 , 100, 36-43	2.1	18
42	Down syndrome cell adhesion molecule 1: testing for a role in insect immunity, behaviour and reproduction. <i>Royal Society Open Science</i> , 2016 , 3, 160138	3.3	17
41	The hologenome concept: we need to incorporate function. <i>Theory in Biosciences</i> , 2017 , 136, 89-98	1.3	14
40	Downregulation of the evolutionary capacitor Hsp90 is mediated by social cues. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015 , 282,	4.4	14
39	In vitro effects of prostaglandin E2 on leucocytes from sticklebacks (<i>Gasterosteus aculeatus</i>) infected and not infected with the cestode <i>Schistocephalus solidus</i> . <i>Fish and Shellfish Immunology</i> , 2014 , 41, 473-81	4.3	14
38	DNA preparation and efficient microsatellite analysis from insect hemolymph. <i>Electrophoresis</i> , 1998 , 19, 3069-70	3.6	13
37	Comment on "Parasite selection for immunogenetic optimality". <i>Science</i> , 2004 , 303, 957; author reply 957	33.3	13
36	Transgenerational Developmental Effects of Immune Priming in the Red Flour Beetle. <i>Frontiers in Physiology</i> , 2019 , 10, 98	4.6	12
35	Infection of <i>Tribolium castaneum</i> with <i>Bacillus thuringiensis</i> : quantification of bacterial replication within cadavers, transmission via cannibalism, and inhibition of spore germination. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 8135-44	4.8	12
34	Sex, parasites and resistance--an evolutionary approach. <i>Zoology</i> , 2003 , 106, 327-39	1.7	12

33	Phagocytosis of vairimorpha sp. (Microsporida, Nosematidae) spores by <i>Plutella xylostella</i> and <i>Panorpa vulgaris</i> hemocytes. <i>Journal of Invertebrate Pathology</i> , 2000 , 75, 237-9	2.6	12
32	Immunosuppression under stress: necessary for condition-dependent signalling?. <i>Trends in Ecology and Evolution</i> , 2000 , 15, 418-419	10.9	12
31	Genotype and diet affect resistance, survival, and fecundity but not fecundity tolerance. <i>Journal of Evolutionary Biology</i> , 2018 , 31, 159-171	2.3	12
30	A multi-faceted approach testing the effects of previous bacterial exposure on resistance and tolerance. <i>Journal of Animal Ecology</i> , 2019 , 88, 566-578	4.7	10
29	Parasite-infected sticklebacks increase the risk-taking behaviour of uninfected group members. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018 , 285,	4.4	10
28	Specific manipulation or systemic impairment? Behavioural changes of three-spined sticklebacks (<i>Gasterosteus aculeatus</i>) infected with the tapeworm <i>Schistocephalus solidus</i> . <i>Behavioral Ecology and Sociobiology</i> , 2017 , 71, 1	2.5	9
27	Population genetic dynamics of three-spined sticklebacks (<i>Gasterosteus aculeatus</i>) in anthropogenic altered habitats. <i>Ecology and Evolution</i> , 2012 , 2, 1122-43	2.8	8
26	The correlation between immunocompetence and an ornament trait changes over lifetime in <i>Panorpa vulgaris</i> scorpionflies. <i>Zoology</i> , 2007 , 110, 336-43	1.7	8
25	An experimental approach to the immuno-modulatory basis of host-parasite local adaptation in tapeworm-infected sticklebacks. <i>Experimental Parasitology</i> , 2017 , 180, 119-132	2.1	7
24	Resistance is skin-deep: innate immunity may help amphibians to survive a deadly fungus. <i>Animal Conservation</i> , 2007 , 10, 422-424	3.2	7
23	Evolutionary ecology of immune defence in copepods. <i>Journal of Plankton Research</i> , 2007 , 29, i27-i38	2.2	7
22	Ecological immunity of arthropods in a thread of Ariadne?. <i>Trends in Ecology and Evolution</i> , 2002 , 17, 204-205.9	2.5	7
21	Resistance against heterogeneous sequential infections: experimental studies with a tapeworm and its copepod host. <i>Journal of Helminthology</i> , 2006 , 80, 199-206	1.6	6
20	Consequences of divergent temperature optima in a host-parasite system. <i>Oikos</i> , 2019 , 128, 869-880	4	5
19	Immune response in <i>Porcellio scaber</i> (Isopoda: Oniscidea): copper revisited. <i>European Journal of Soil Biology</i> , 2005 , 41, 77-83	2.9	5
18	Infectivity of two nematode parasites, <i>Camallanus lacustris</i> and <i>Anguillicola crassus</i> , in a paratenic host, the three-spined stickleback <i>Gasterosteus aculeatus</i> . <i>Diseases of Aquatic Organisms</i> , 2007 , 74, 119-128	1.7	5
17	Continuous Agrochemical Treatments in Agroecosystems Can Modify the Effects of Pendimethalin-Based Herbicide Exposure on Immunocompetence of a Beneficial Ground Beetle. <i>Diversity</i> , 2019 , 11, 241	2.5	5
16	In vitro effects of the neuroactive substances serotonin and γ -aminobutyric acid on leucocytes from sticklebacks (<i>Gasterosteus aculeatus</i>). <i>Fish and Shellfish Immunology</i> , 2019 , 87, 286-296	4.3	4

15	Parasite infection disrupts escape behaviours in fish shoals. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020 , 287, 20201158	4.4	4
14	Effects of an anthropogenic saltwater inlet on three-spined stickleback (<i>Gasterosteus aculeatus</i>) (Teleostei: Gasterosteidae) and their parasites in an inland brook 2017 , 84, 444-456		4
13	Condition-dependence and sexual ornamentation: Effects of immune challenges on a highly sexually dimorphic grasshopper. <i>Insect Science</i> , 2018 , 25, 617-630	3.6	2
12	OUTCROSSING INCREASES INFECTION SUCCESS AND COMPETITIVE ABILITY: EXPERIMENTAL EVIDENCE FROM A HERMAPHRODITE PARASITE. <i>Evolution; International Journal of Organic Evolution</i> , 2002 , 56, 2243	3.8	2
11	Paternal knockdown of tRNA (cytosine-5)-methyltransferase (Dnmt2) increases offspring susceptibility to infection in flour beetles		2
10	Early stages of infection of three-spined stickleback (<i>Gasterosteus aculeatus</i>) with the cestode <i>Schistocephalus solidus</i> . <i>Journal of Fish Diseases</i> , 2018 , 41, 1701-1708	2.6	2
9	Comparative Mortality and Adaptation of a Smurf Assay in two Species of Tenebrionid Beetles Exposed to. <i>Insects</i> , 2020 , 11,	2.8	1
8	Serial passage in an insect host indicates genetic stability of the human probiotic Nissle 1917.. <i>Evolution, Medicine and Public Health</i> , 2022 , 10, 71-86	3	1
7	Parasite infection impairs the shoaling behaviour of uninfected shoal members under predator attack. <i>Behavioral Ecology and Sociobiology</i> , 2021 , 75, 1	2.5	1
6	Climate change facilitates a parasite's host exploitation via temperature-mediated immunometabolic processes. <i>Global Change Biology</i> , 2021 , 27, 94-107	11.4	1
5	Beyond Standardization: Improving External Validity and Reproducibility in Experimental Evolution. <i>BioScience</i> , 2021 , 71, 543-552	5.7	1
4	Survival of the Sawfly Upon Infection by an Entomopathogenic Fungus and in Relation to Clerodanoid Uptake. <i>Frontiers in Physiology</i> , 2021 , 12, 637617	4.6	1
3	Oral Immune Priming Treatment Alters Microbiome Composition in the Red Flour Beetle .. <i>Frontiers in Microbiology</i> , 2022 , 13, 793143	5.7	1
2	Far from simple: insect immune defences. <i>Trends in Ecology and Evolution</i> , 2010 , 25, 12-13	10.9	
1	Integrating evolutionary aspects into dual-use discussion: the cases of influenza virus and enterohemorrhagic .. <i>Evolution, Medicine and Public Health</i> , 2021 , 9, 383-392	3	