

# Joachim Kurtz

## List of Publications by Year in Descending Order

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**Version:** 2024-04-20

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Serial passage in an insect host indicates genetic stability of the human probiotic Nissle 1917.. <i>Evolution, Medicine and Public Health</i> , <b>2022</b> , 10, 71-86	3	1
103	Oral Immune Priming Treatment Alters Microbiome Composition in the Red Flour Beetle .. <i>Frontiers in Microbiology</i> , <b>2022</b> , 13, 793143	5.7	1
102	Integrating evolutionary aspects into dual-use discussion: the cases of influenza virus and enterohemorrhagic .. <i>Evolution, Medicine and Public Health</i> , <b>2021</b> , 9, 383-392	3	
101	Parasite infection impairs the shoaling behaviour of uninfected shoal members under predator attack. <i>Behavioral Ecology and Sociobiology</i> , <b>2021</b> , 75, 1	2.5	1
100	Climate change facilitates a parasite's host exploitation via temperature-mediated immunometabolic processes. <i>Global Change Biology</i> , <b>2021</b> , 27, 94-107	11.4	1
99	Beyond Standardization: Improving External Validity and Reproducibility in Experimental Evolution. <i>BioScience</i> , <b>2021</b> , 71, 543-552	5.7	1
98	Survival of the Sawfly Upon Infection by an Entomopathogenic Fungus and in Relation to Clerodanoid Uptake. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 637617	4.6	1
97	Parasite infection disrupts escape behaviours in fish shoals. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 287, 20201158	4.4	4
96	Comparative Mortality and Adaptation of a Smurf Assay in two Species of Tenebrionid Beetles Exposed to. <i>Insects</i> , <b>2020</b> , 11,	2.8	1
95	Dscam in immunity: A question of diversity in insects and crustaceans. <i>Developmental and Comparative Immunology</i> , <b>2020</b> , 105, 103539	3.2	22
94	In vitro effects of the neuroactive substances serotonin and $\gamma$ -aminobutyric acid on leucocytes from sticklebacks ( <i>Gasterosteus aculeatus</i> ). <i>Fish and Shellfish Immunology</i> , <b>2019</b> , 87, 286-296	4.3	4
93	Consequences of divergent temperature optima in a host-parasite system. <i>Oikos</i> , <b>2019</b> , 128, 869-880	4	5
92	A multi-faceted approach testing the effects of previous bacterial exposure on resistance and tolerance. <i>Journal of Animal Ecology</i> , <b>2019</b> , 88, 566-578	4.7	10
91	Transgenerational Developmental Effects of Immune Priming in the Red Flour Beetle. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 98	4.6	12
90	Continuous Agrochemical Treatments in Agroecosystems Can Modify the Effects of Pendimethalin-Based Herbicide Exposure on Immunocompetence of a Beneficial Ground Beetle. <i>Diversity</i> , <b>2019</b> , 11, 241	2.5	5
89	Experimental evolution of immunological specificity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 20598-20604	11.5	27
88	Condition-dependence and sexual ornamentation: Effects of immune challenges on a highly sexually dimorphic grasshopper. <i>Insect Science</i> , <b>2018</b> , 25, 617-630	3.6	2

87	Parasite-infected sticklebacks increase the risk-taking behaviour of uninfected group members. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2018</b> , 285,	4.4	10
86	Genotype and diet affect resistance, survival, and fecundity but not fecundity tolerance. <i>Journal of Evolutionary Biology</i> , <b>2018</b> , 31, 159-171	2.3	12
85	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> , <b>2018</b> , 8, 16462	4.9	25
84	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> , <b>2018</b> , 41, 1701-1708	2.6	2
83	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> , <b>2017</b> , 71, 1	2.5	9
82	Environmental temperature variation influences fitness trade-offs and tolerance in a fish-tapeworm association. <i>Parasites and Vectors</i> , <b>2017</b> , 10, 252	4	23
81	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> , <b>2017</b> , 18, 329	4.5	46
80	An experimental approach to the immuno-modulatory basis of host-parasite local adaptation in tapeworm-infected sticklebacks. <i>Experimental Parasitology</i> , <b>2017</b> , 180, 119-132	2.1	7
79	The hologenome concept: we need to incorporate function. <i>Theory in Biosciences</i> , <b>2017</b> , 136, 89-98	1.3	14
78	Effects of an anthropogenic saltwater inlet on three-spined stickleback ( <i>Gasterosteus aculeatus</i> ) (Teleostei: Gasterosteidae) and their parasites in an inland brook <b>2017</b> , 84, 444-456		4
77	Specificity of oral immune priming in the red flour beetle. <i>Biology Letters</i> , <b>2017</b> , 13,	3.6	19
76	in Pancrustacean Immunity: Current Status and a Look to the Future. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 662	8.4	21
75	Cu,Zn Superoxide Dismutase Genes in : Evolution, Molecular Characterisation, and Gene Expression during Immune Priming. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 1811	8.4	18
74	Immune memory in invertebrates. <i>Seminars in Immunology</i> , <b>2016</b> , 28, 328-42	10.7	145
73	Immune priming in arthropods: an update focusing on the red flour beetle. <i>Zoology</i> , <b>2016</b> , 119, 254-61	1.7	60
72	Effects of environmental variation on host-parasite interaction in three-spined sticklebacks ( <i>Gasterosteus aculeatus</i> ). <i>Zoology</i> , <b>2016</b> , 119, 375-83	1.7	32
71	A Novel Mechanism of Immune Memory Unveiled at the Invertebrate-Parasite Interface. <i>Trends in Parasitology</i> , <b>2016</b> , 32, 353-355	6.4	23
70	Down syndrome cell adhesion molecule 1: testing for a role in insect immunity, behaviour and reproduction. <i>Royal Society Open Science</i> , <b>2016</b> , 3, 160138	3.3	17

69	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> , <b>2015</b> , 81, 8135-44	4.8	12
68	Dscam and pancrustacean immune memory - a review of the evidence. <i>Developmental and Comparative Immunology</i> , <b>2015</b> , 48, 315-23	3.2	64
67	A temperature shock can lead to trans-generational immune priming in the Red Flour Beetle, <i>Tribolium castaneum</i> . <i>Ecology and Evolution</i> , <b>2015</b> , 5, 1318-26	2.8	33
66	Downregulation of the evolutionary capacitor Hsp90 is mediated by social cues. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2015</b> , 282,	4.4	14
65	Host-Pathogen Coevolution: The Selective Advantage of <i>Bacillus thuringiensis</i> Virulence and Its Cry Toxin Genes. <i>PLoS Biology</i> , <b>2015</b> , 13, e1002169	9.7	55
64	Microbiota Plays a Role in Oral Immune Priming in <i>Tribolium castaneum</i> . <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 1383	5.7	44
63	Infection routes matter in population-specific responses of the red flour beetle to the entomopathogen <i>Bacillus thuringiensis</i> . <i>BMC Genomics</i> , <b>2014</b> , 15, 445	4.5	45
62	Increased survival in the red flour beetle after oral priming with bacteria-conditioned media. <i>Journal of Innate Immunity</i> , <b>2014</b> , 6, 306-14	6.9	34
61	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> , <b>2014</b> , 41, 473-81	4.3	14
60	Heat and immunity: an experimental heat wave alters immune functions in three-spined sticklebacks ( <i>Gasterosteus aculeatus</i> ). <i>Journal of Animal Ecology</i> , <b>2014</b> , 83, 744-57	4.7	80
59	Experimental evolution of external immune defences in the red flour beetle. <i>Journal of Evolutionary Biology</i> , <b>2014</b> , 27, 1562-71	2.3	31
58	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> , <b>2014</b> , 281,	4.4	51
57	In vitro leukocyte response of three-spined sticklebacks ( <i>Gasterosteus aculeatus</i> ) to helminth parasite antigens. <i>Fish and Shellfish Immunology</i> , <b>2014</b> , 36, 130-40	4.3	25
56	Quantitative profiling of <i>Drosophila melanogaster</i> Dscam1 isoforms reveals no changes in splicing after bacterial exposure. <i>PLoS ONE</i> , <b>2014</b> , 9, e108660	3.7	25
55	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> , <b>2013</b> , 35, 1779-87	4.3	25
54	The red flour beetle as a model for bacterial oral infections. <i>PLoS ONE</i> , <b>2013</b> , 8, e64638	3.7	55
53	The evolution of Dscam genes across the arthropods. <i>BMC Evolutionary Biology</i> , <b>2012</b> , 12, 53	3	42
52	Population genetic dynamics of three-spined sticklebacks ( <i>Gasterosteus aculeatus</i> ) in anthropogenic altered habitats. <i>Ecology and Evolution</i> , <b>2012</b> , 2, 1122-43	2.8	8

51	Paternally derived immune priming for offspring in the red flour beetle, <i>Tribolium castaneum</i> . <i>Journal of Animal Ecology</i> , <b>2010</b> , 79, 403-13	4.7	170
50	Far from simple: insect immune defences. <i>Trends in Ecology and Evolution</i> , <b>2010</b> , 25, 12-13	10.9	
49	A summer heat wave decreases the immunocompetence of the mesograzer, <i>Idotea baltica</i> . <i>Marine Biology</i> , <b>2010</b> , 157, 1605-1611	2.5	37
48	Ecological immunology of a tapeworms interaction with its two consecutive hosts. <i>Advances in Parasitology</i> , <b>2009</b> , 68, 111-37	3.2	24
47	Introduction. Ecological immunology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 3-14	5.8	196
46	Strain-specific priming of resistance in the red flour beetle, <i>Tribolium castaneum</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 276, 145-51	4.4	172
45	Phagocytosis mediates specificity in the immune defence of an invertebrate, the woodlouse <i>Porcellio scaber</i> (Crustacea: Isopoda). <i>Developmental and Comparative Immunology</i> , <b>2009</b> , 33, 1151-5	3.2	90
44	The stimulation of immune defence accelerates development in the red flour beetle ( <i>Tribolium castaneum</i> ). <i>Journal of Evolutionary Biology</i> , <b>2008</b> , 21, 1703-10	2.3	27
43	The correlation between immunocompetence and an ornament trait changes over lifetime in <i>Panorpa vulgaris</i> scorpionflies. <i>Zoology</i> , <b>2007</b> , 110, 336-43	1.7	8
42	Resistance is skin-deep: innate immunity may help amphibians to survive a deadly fungus. <i>Animal Conservation</i> , <b>2007</b> , 10, 422-424	3.2	7
41	<i>Schistocephalus solidus</i> : establishment of tapeworms in sticklebacks--fast food or fast lane?. <i>Experimental Parasitology</i> , <b>2007</b> , 116, 142-9	2.1	25
40	Evolutionary ecology of immune defence in copepods. <i>Journal of Plankton Research</i> , <b>2007</b> , 29, i27-i38	2.2	7
39	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> , <b>2007</b> , 170, 509-19	3.7	75
38	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> , <b>2007</b> , 74, 119-126	1.7	5
37	MHC genes and oxidative stress in sticklebacks: an immuno-ecological approach. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2006</b> , 273, 1407-14	4.4	55
36	Local differences in immunocompetence reflect resistance of sticklebacks against the eye fluke <i>Diplostomum pseudospathaceum</i> . <i>Parasitology</i> , <b>2006</b> , 132, 105-16	2.7	90
35	Alternative adaptive immunity in invertebrates. <i>Trends in Immunology</i> , <b>2006</b> , 27, 493-6	14.4	116
34	Resistance against heterogeneous sequential infections: experimental studies with a tapeworm and its copepod host. <i>Journal of Helminthology</i> , <b>2006</b> , 80, 199-206	1.6	6

33	Genetic variation in MHC class II expression and interactions with MHC sequence polymorphism in three-spined sticklebacks. <i>Molecular Ecology</i> , <b>2006</b> , 15, 1153-64	5.7	48
32	Specific memory within innate immune systems. <i>Trends in Immunology</i> , <b>2005</b> , 26, 186-92	14.4	251
31	Immune response in Porcellio scaber (Isopoda: Oniscidea): copper revisited. <i>European Journal of Soil Biology</i> , <b>2005</b> , 41, 77-83	2.9	5
30	Juvenile immune status affects the expression of a sexually selected trait in field crickets. <i>Journal of Evolutionary Biology</i> , <b>2005</b> , 18, 1060-8	2.3	49
29	Surface carbohydrate composition of a tapeworm in its consecutive intermediate hosts: individual variation and fitness consequences. <i>International Journal for Parasitology</i> , <b>2005</b> , 35, 1499-507	4.3	34
28	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> , <b>2005</b> , 272, 2511-8	4.4	32
27	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> , <b>2005</b> , 272, 63-9	4.4	80
26	Major histocompatibility complex diversity influences parasite resistance and innate immunity in sticklebacks. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2004</b> , 271, 197-204	4.4	174
25	Comment on "Parasite selection for immunogenetic optimality". <i>Science</i> , <b>2004</b> , 303, 957; author reply 957	33.3	13
24	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> , <b>2004</b> , 59, 141-50	1.7	72
23	Memory in the innate and adaptive immune systems. <i>Microbes and Infection</i> , <b>2004</b> , 6, 1410-7	9.3	78
22	Evaluation of an innate immune reaction to parasites in earthworms. <i>Journal of Invertebrate Pathology</i> , <b>2004</b> , 86, 45-9	2.6	21
21	Parasite selection for immunogenetic optimality. <i>Science</i> , <b>2003</b> , 301, 1343	33.3	252
20	Sex, parasites and resistance--an evolutionary approach. <i>Zoology</i> , <b>2003</b> , 106, 327-39	1.7	12
19	Innate defence: evidence for memory in invertebrate immunity. <i>Nature</i> , <b>2003</b> , 425, 37-8	50.4	324
18	Phagocytosis by invertebrate hemocytes: causes of individual variation in <i>Panorpa vulgaris</i> scorpionflies. <i>Microscopy Research and Technique</i> , <b>2002</b> , 57, 456-68	2.8	39
17	Cryptic male choice: sperm allocation strategies when female quality varies. <i>Journal of Evolutionary Biology</i> , <b>2002</b> , 15, 201-209	2.3	120
16	Outcrossing increases infection success and competitive ability: experimental evidence from a hermaphrodite parasite. <i>Evolution; International Journal of Organic Evolution</i> , <b>2002</b> , 56, 2243-51	3.8	46

15	OUTCROSSING INCREASES INFECTION SUCCESS AND COMPETITIVE ABILITY: EXPERIMENTAL EVIDENCE FROM A HERMAPHRODITE PARASITE. <i>Evolution; International Journal of Organic Evolution</i> , <b>2002</b> , 56, 2243	3.8	2
14	To avoid or eliminate: cestode infections in copepods. <i>Parasitology</i> , <b>2002</b> , 124, 465-74	2.7	43
13	Altered host behaviour: manipulation or energy depletion in tapeworm-infected copepods?. <i>Parasitology</i> , <b>2002</b> , 125, 187-96	2.7	34
12	Ecological immunity of arthropods in thread of Ariadne?. <i>Trends in Ecology and Evolution</i> , <b>2002</b> , 17, 204-205.9	2.5	7
11	Fluorescent vital labeling to track cestodes in a copepod intermediate host. <i>Experimental Parasitology</i> , <b>2002</b> , 100, 36-43	2.1	18
10	Gender differences in phenoloxidase activity of <i>Panorpa vulgaris</i> hemocytes. <i>Journal of Invertebrate Pathology</i> , <b>2001</b> , 78, 53-5	2.6	61
9	Genetic variability in the diapause response of the burnet moth <i>Zygaena trifolii</i> (Lepidoptera: Zygaenidae). <i>Journal of Insect Physiology</i> , <b>2000</b> , 46, 127-134	2.4	29
8	Phagocytosis of <i>vairimorpha</i> sp. (Microsporida, Nosematidae) spores by <i>Plutella xylostella</i> and <i>Panorpa vulgaris</i> hemocytes. <i>Journal of Invertebrate Pathology</i> , <b>2000</b> , 75, 237-9	2.6	12
7	Gender differences and individual variation in the immune system of the scorpionfly <i>Panorpa vulgaris</i> (Insecta: Mecoptera). <i>Developmental and Comparative Immunology</i> , <b>2000</b> , 24, 1-12	3.2	128
6	Immunosuppression under stress: necessary for condition-dependent signalling?. <i>Trends in Ecology and Evolution</i> , <b>2000</b> , 15, 418-419	10.9	12
5	Meiotic drive and evolution of female choice. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>1999</b> , 266, 1341-5	4.4	21
4	The immunocompetence handicap hypothesis: testing the genetic predictions. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>1999</b> , 266, 2515-22	4.4	81
3	DNA preparation and efficient microsatellite analysis from insect hemolymph. <i>Electrophoresis</i> , <b>1998</b> , 19, 3069-70	3.6	13
2	Mating System and Sexual Selection in the Scorpionfly <i>Panorpa vulgaris</i> (Mecoptera: Panorpidae). <i>Die Naturwissenschaften</i> , <b>1998</b> , 85, 219-228	2	73
1	Paternal knockdown of tRNA (cytosine-5)-methyltransferase (Dnmt2) increases offspring susceptibility to infection in flour beetles		2