Claus Wedekind

List of Publications by Citations

133 papers	5,793 citations	38 h-index	73 g-index
154 ext. papers	6,450 ext. citations	5.1 avg, IF	5.96 L-index

#	Paper	IF	Citations
133	Cooperation through image scoring in humans. *Science*, **2000**, 288, 850-2	33.3	667
132	MHC-dependent mate preferences in humans. *Proceedings of the Royal Society B: Biological Sciences* , **1995**, 260, 245-9	4.4	627
131	Body odour preferences in men and women: do they aim for specific MHC combinations or simply heterozygosity?. *Proceedings of the Royal Society B: Biological Sciences*, **1997**, 264, 1471-9	4.4	353
130	Adaptive or Nonadaptive Immunosuppression by Sex Hormones?. *American Naturalist*, **1994**, 143, 936-938	3.7	243
129	The long-term benefits of human generosity in indirect reciprocity. *Current Biology*, **2002**, 12, 1012-5	6.3	208
128	Working memory constrains human cooperation in the Prisoner's Dilemma. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 13755-8	11.5	178
127	Nonlinkage of major histocompatibility complex class I and class II loci in bony fishes. *Immunogenetics*, **2000**, 51, 108-16	3.2	155
126	Human cooperation in the simultaneous and the alternating Prisoner's Dilemma: Pavlov versus Generous Tit-for-Tat. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 2686-9	11.5	148
125	Potential genetic benefits of mate selection in whitefish. *Journal of Evolutionary Biology*, **2001**, 14, 980-986	2.3	127
124	The evolution of punishment through reputation. *Proceedings of the Royal Society B: Biological Sciences*, **2011**, 278, 371-7	4.4	110
123	Non-random fertilization in mice correlates with the MHC and something else. *Heredity*, **1996**, 77 (Pt 4), 400-9	3.6	110
122	Evidence for MHC-correlated perfume preferences in humans. *Behavioral Ecology*, **2001**, 12, 140-149	2.3	94
121	Sexual Selection and Life-History Decisions: Implications for Supportive Breeding and the Management of Captive Populations. *Conservation Biology*, **2002**, 16, 1204-1211	6	90
120	Different Carotenoids and Potential Information Content of Red Coloration of Male Three-Spined Stickleback. *Journal of Chemical Ecology*, **1998**, 24, 787-801	2.7	79
119	Mate choice and maternal selection for specific parasite resistances before; during and after fertilization. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **1994**, 346, 303-11	5.8	79
118	The infectivity, growth, and virulence of the cestode Schistocephalus solidus in its first intermediate host, the copepod Macrocyclops albidus. *Parasitology*, **1997**, 115 (Pt 3), 317-24	2.7	77
117	Do three-spined sticklebacks avoid consuming copepods, the first intermediate host of Schistocephalus solidus ? An experimental analysis of behavioural resistance. *Parasitology*, **1996**, 112, 371-383	2.7	73

116	Evidence for strategic egg production in a hermaphroditic cestode. *Parasitology*, **1998**, 117 (Pt 4), 373-82	2.7	72
115	MHC-linked susceptibility to a bacterial infection, but no MHC-linked cryptic female choice in whitefish. *Journal of Evolutionary Biology*, **2004**, 17, 11-8	2.3	71
114	Population consequences of environmental sex reversal. *Conservation Biology*, **2009**, 23, 196-206	6	65
113	Induced hatching to avoid infectious egg disease in whitefish. *Current Biology*, **2002**, 12, 69-71	6.3	65
112	MHC-genotype of progeny influenced by parental infection. *Proceedings of the Royal Society B: Biological Sciences*, **1998**, 265, 711-6	4.4	65
111	Male-Biased Susceptibility to Helminth Infection: An Experimental Test with a Copepod. *Oikos*, **1998**, 81, 458	4	64
110	Environmental sex reversal, Trojan sex genes, and sex ratio adjustment: conditions and population consequences. *Molecular Ecology*, **2010**, 19, 627-46	5.7	56
109	Male dominance linked to size and age, but not to Tgood genesTin brown trout (Salmo trutta). *BMC Evolutionary Biology*, **2007**, 7, 207	3	55
108	The genetic consequences of hatchery-induced sperm competition in a salmonid. *Biological Conservation*, **2007**, 137, 180-188	6.2	55
107	Genetic and phenotypic population divergence on a microgeographic scale in brown trout. *Molecular Ecology*, **2012**, 21, 2896-915	5.7	51
106	Size-dependent sex allocation in a simultaneous hermaphrodite parasite. *Journal of Evolutionary Biology*, **2001**, 14, 55-67	2.3	51
105	Shift of spawning season and effects of climate warming on developmental stages of a grayling (Salmonidae). *Conservation Biology*, **2010**, 24, 1418-23	6	49
104	Manipulating sex ratios for conservation: short-term risks and long-term benefits. *Animal Conservation*, **2002**, 5, 13-20	3.2	47
103	Control of introduced species using Trojan sex chromosomes. *Trends in Ecology and Evolution*, **2007**, 22, 441-3	10.9	45
102	Fishery-induced selection on an Alpine whitefish: quantifying genetic and environmental effects on individual growth rate. *Evolutionary Applications*, **2009**, 2, 200-8	4.8	44
101	Viability of brown trout embryos positively linked to melanin-based but negatively to carotenoid-based colours of their fathers. *Proceedings of the Royal Society B: Biological Sciences*, **2008**, 275, 1737-44	4.4	43
100	Effects of different mating scenarios on embryo viability in brown trout. *Molecular Ecology*, **2010**, 19, 5296-307	5.7	39
99	Elevated resource availability sufficient to turn opportunistic into virulent fish pathogens. *Ecology*, **2010**, 91, 1251-6	4.6	39

98	Lifetime reproductive output in a hermaphrodite cestode when reproducing alone or in pairs: a time cost of pairing. *Evolutionary Ecology*, **1999**, 13, 381-394	1.8	39
97	Male body size and breeding tubercles are both linked to intrasexual dominance and reproductive success in the minnow. *Animal Behaviour*, **2009**, 77, 823-829	2.8	38
96	Size-dependent discrimination of mating partners in the simultaneous hermaphroditic cestode Schistocephalus solidus. *Behavioral Ecology*, **2002**, 13, 254-259	2.3	37
95	Lek-Like Spawning Behaviour and Different Female Mate Preferences in Roach (Rutilus Rutilus). *Behaviour*, **1996**, 133, 681-695	1.4	36
94	Social situation, sperm competition and sex allocation in a simultaneous hermaphrodite parasite, the cestode Schistocephalus solidus. *Journal of Evolutionary Biology*, **2001**, 14, 942-953	2.3	36
93	Copepod reaction to odor stimuli influenced by cestode infection. *Behavioral Ecology*, **1998**, 9, 414-418	2.3	32
92	Handicaps not obligatory in sexual selection for resistance genes. *Journal of Theoretical Biology*, **1994**, 170, 57-62	2.3	32
91	Persistent unequal sex ratio in a population of grayling (Salmonidae) and possible role of temperature increase. *Conservation Biology*, **2013**, 27, 229-34	6	31
90	Demographic and genetic consequences of disturbed sex determination. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2017**, 372,	5.8	31
89	Human cooperation based on punishment reputation. *Evolution; International Journal of Organic Evolution*, **2013**, 67, 2446-50	3.8	30
88	Tolerance of whitefish embryos to Pseudomonas fluorescens linked to genetic and maternal effects, and reduced by previous exposure. *Fish and Shellfish Immunology*, **2009**, 26, 531-5	4.3	30
87	SSCP analysis of Mhc class IIB genes in the threespine stickleback. *Journal of Fish Biology*, **2001**, 58, 887-890	1.9	30
86	RISK-INDUCED EARLY HATCHING IN SALMONIDS. *Ecology*, **2005**, 86, 2525-2529	4.6	28
85	The course of malaria in mice: major histocompatibility complex (MHC) effects, but no general MHC heterozygote advantage in single-strain infections. *Genetics*, **2005**, 170, 1427-30	4	28
84	Relative helminth size in crustacean hosts: in vivo determination, and effects of host gender and within-host competition in a copepod infected by a cestode. *Aquatic Ecology*, **2000**, 34, 279-285	1.9	27
83	Introduction of Trojan sex chromosomes to boost population growth. *Journal of Theoretical Biology* , **2007**, 249, 153-61	2.3	24
82	Manipulating sex ratio to increase population growth: the example of the Lesser Kestrel. *Animal Conservation*, **2007**, 10, 236-244	3.2	24
81	The weaker points of fish acute toxicity tests and how tests on embryos can solve some issues. *Environmental Pollution*, **2007**, 148, 385-9	9.3	24

80	TGood-genesTand TCompatible-genesTeffects in an Alpine whitefish and the information content of breeding tubercles over the course of the spawning season. *Genetica*, **2008**, 134, 21-30	1.5	23
79	No sibling odor preference in juvenile three-spined sticklebacks. *Behavioral Ecology*, **1999**, 10, 493-497	2.3	23
78	Effects of global warming on sex ratios in fishes. *Journal of Fish Biology*, **2020**, 97, 596-606	1.9	22
77	Maternal and paternal contributions to pathogen resistance dependent on development stage in a whitefish (Salmonidae). *Functional Ecology*, **2014**, 28, 714-723	5.6	22
76	Sperm velocity in an Alpine whitefish: effects of age, size, condition, fluctuating asymmetry and gonad abnormalities. *Journal of Fish Biology*, **2007**, 71, 672-683	1.9	22
75	Effects of host genetics and environment on egg-associated microbiotas in brown trout (Salmo trutta). *Molecular Ecology*, **2016**, 25, 4930-45	5.7	22
74	Reputation based on punishment rather than generosity allows for evolution of cooperation in sizable groups. *Evolution and Human Behavior*, **2015**, 36, 59-64	4	21
73	Pathogen-induced hatching and population-specific life-history response to waterborne cues in brown trout (Salmo trutta). *Behavioral Ecology and Sociobiology*, **2013**, 67, 649-656	2.5	21
72	SSCP analysis of Mhc class II B genes in the threespine stickleback. *Journal of Fish Biology*, **2001**, 58, 887-890	1.9	20
71	Additive genetic variation for tolerance to estrogen pollution in natural populations of Alpine whitefish (Coregonus sp., Salmonidae). *Evolutionary Applications*, **2014**, 7, 1084-93	4.8	19
70	TGood-genesTand TCompatible-genesTeffects in an Alpine whitefish and the information content of breeding tubercles over the course of the spawning season. *Genetica*, **2008**, 132, 199-208	1.5	19
69	Isolation and characterization of microsatellite loci from the tapeworm Schistocephalus solidus. *Molecular Ecology*, **2000**, 9, 1926-7	5.7	19
68	Increased diversity of egg-associated bacteria on brown trout (Salmo trutta) at elevated temperatures. *Scientific Reports*, **2015**, 5, 17084	4.9	18
67	The evolutionary significance of costly punishment is still to be demonstrated. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, E135; author reply E136	11.5	18
66	Early maternal investment in mice: no evidence for compatible-genes sexual selection despite hybrid vigor. *Journal of Evolutionary Biology*, **2006**, 19, 922-8	2.3	18
65	The MHC and body odors: arbitrary effects caused by shifts of mean pleasantness. *Nature Genetics*, **2002**, 31, 237; author reply 237	36.3	18
64	GAME THEORY: Enhanced: Give and Ye Shall Be Recognized. *Science*, **1998**, 280, 2070b-2071	33.3	18
63	Female major histocompatibility complex type affects male testosterone levels and sperm number in the horse (Equus caballus). *Proceedings of the Royal Society B: Biological Sciences*, **2015**, 282, 20150407	4.4	17

62	Ejaculate Characteristics Depend on Social Environment in the Horse (Equus caballus). *PLoS ONE*, **2015**, 10, e0143185	3.7	17
61	Sequence diversity of Mhc genes in lake whitefish. *Journal of Fish Biology*, **2001**, 58, 359-373	1.9	16
60	Parental influences on pathogen resistance in brown trout embryos and effects of outcrossing within a river network. *PLoS ONE*, **2013**, 8, e57832	3.7	16
59	Predicting the mating system from phenotypic correlations between life-history and sperm quality traits in the Alpine whitefish Coregonus zugensis. *Behavioral Ecology and Sociobiology*, **2008**, 62, 561-567	2.5	15
58	The experimental rearing of large salmonid eggs in Petri dishes. *Functional Ecology*, **2004**, 18, 138-140	5.6	14
57	Major histocompatibility complex-linked social signalling affects female fertility. *Proceedings of the Royal Society B: Biological Sciences*, **2017**, 284,	4.4	14
56	Declining diversity of egg-associated bacteria during development of naturally spawned whitefish embryos (Coregonus spp.). *Aquatic Sciences*, **2015**, 77, 481-497	2.5	13
55	The Major Histocompatibility Complex and PerfumersTDescriptions of Human Body Odors. *Evolutionary Psychology*, **2007**, 5, 147470490700500	1.5	13
54	Temperature-induced sex reversal is not responsible for sex-ratio distortions in grayling Thymallus thymallus or brown trout Salmo trutta. *Journal of Fish Biology*, **2013**, 83, 404-11	1.9	12
53	MHC class I expression dependent on bacterial infection and parental factors in whitefish embryos (Salmonidae). *Molecular Ecology*, **2013**, 22, 5256-69	5.7	12
52	Change in individual growth rate and its link to gill-net fishing in two sympatric whitefish species. *Evolutionary Ecology*, **2011**, 25, 681-693	1.8	12
51	Tackling the diversity of sex determination. *Biology Letters*, **2010**, 6, 7-9	3.6	12
50	The separate and combined effects of MHC genotype, parasite clone, and host gender on the course of malaria in mice. *BMC Genetics*, **2006**, 7, 55	2.6	12
49	Maternal allocation of carotenoids increases tolerance to bacterial infection in brown trout. *Oecologia*, **2017**, 185, 351-363	2.9	11
48	Stallion semen quality depends on major histocompatibility complex matching to teaser mare. *Molecular Ecology*, **2018**, 27, 1025-1035	5.7	11
47	Testing the effects of genetic crossing distance on embryo survival within a metapopulation of brown trout (Salmo trutta). *Conservation Genetics*, **2014**, 15, 375-386	2.6	11
46	Environmental stress linked to consumption of maternally derived carotenoids in brown trout embryos (). *Ecology and Evolution*, **2017**, 7, 5082-5093	2.8	11
45	MHC-correlated preferences in diestrous female horses (Equus caballus). *Theriogenology*, **2017**, 89, 318-328.e1	2.8	11

44	Exposure to stallion accelerates the onset of maresTcyclicity. *Theriogenology*, **2014**, 82, 189-94	2.8	11
43	The clearance of hidden cestode infection triggered by an independent activation of host defense in a teleost fish. *Journal of Parasitology*, **2004**, 90, 1329-31	0.9	11
42	Reply from C. Wedekind and T. Seebeck. *Trends in Ecology and Evolution*, **1996**, 11, 24-5	10.9	11
41	Sex differentiation in grayling (Salmonidae) goes through an all-male stage and is delayed in genetic males who instead grow faster. *Scientific Reports*, **2017**, 7, 15024	4.9	10
40	The Potential Effects of Social Interactions on Reproductive Efficiency of Stallions. *Journal of Equine Veterinary Science*, **2012**, 32, 455-457	1.2	10
39	A low-cost method of rearing multiple batches of fish. *Aquaculture*, **2001**, 192, 31-37	4.4	10
38	Quality of seminal fluids varies with type of stimulus at ejaculation. *Scientific Reports*, **2017**, 7, 44339	4.9	9
37	Fish populations surviving estrogen pollution. *BMC Biology*, **2014**, 12, 10	7.3	9
36	Testing for local adaptation in brown trout using reciprocal transplants. *BMC Evolutionary Biology*, **2012**, 12, 247	3	9
35	Managing Population Sex Ratios in Conservation Practice: How and Why? **2012**,		9
34	Male mutation bias and possible long-term effects of human activities. *Conservation Biology*, **2010**, 24, 1190-7	6	8
33	Searching for sex-reversals to explain population demography and the evolution of sex chromosomes. *Molecular Ecology*, **2010**, 19, 1760-2	5.7	8
32	The Intensity of Human Body Odors and the MHC: Should We Expect a Link?. *Evolutionary Psychology*, **2006**, 4, 147470490600400	1.5	8
31	No additive genetic variance for tolerance to ethynylestradiol exposure in natural populations of brown trout (). *Evolutionary Applications*, **2019**, 12, 940-950	4.8	7
30	Genetic correlations and little genetic variance for reaction norms may limit potential for adaptation to pollution by ionic and nanoparticulate silver in a whitefish (Salmonidae). *Ecology and Evolution*, **2016**, 6, 2751-62	2.8	7
29	Sperm cryopreservation reduces offspring growth. *Proceedings of the Royal Society B: Biological Sciences*, **2019**, 286, 20191644	4.4	5
28	Embryonic gene expression of Coregonus palaea (whitefish) under pathogen stress as analyzed by high-throughput RNA-sequencing. *Fish and Shellfish Immunology*, **2015**, 47, 130-40	4.3	5
27	Low adaptive potential for tolerance to ethynylestradiol, but also low toxicity, in a grayling population (Thymallus thymallus). *BMC Evolutionary Biology*, **2019**, 19, 227	3	5

26	Sex-specific changes in gene expression in response to estrogen pollution around the onset of sex differentiation in grayling (Salmonidae). *BMC Genomics*, **2019**, 20, 583	4.5	4
25	Gonadal alterations in male whitefish Coregonus fatioi: no evidence for genetic damage reducing viability in early life stages. *Diseases of Aquatic Organisms*, **2008**, 81, 119-25	1.7	4
24	Consumption of carotenoids not increased by bacterial infection in brown trout embryos (Salmo trutta). *PLoS ONE*, **2018**, 13, e0198834	3.7	4
23	A predicted interaction between odour pleasantness and intensity provides evidence for major histocompatibility complex social signalling in women. *Proceedings of the Royal Society B: Biological Sciences*, **2018**, 285,	4.4	3
22	Exposure to superfluous information reduces cooperation and increases antisocial punishment in reputation-based interactions. *Frontiers in Ecology and Evolution*, **2014**, 2,	3.7	2
21	Examining punishment at different explanatory levels. *Behavioral and Brain Sciences*, **2012**, 35, 23-4	0.9	2
20	Examining the motivations for generosity. *Science*, **2000**, 290, 454-5	33.3	2
19	Sperm costs and lifespan. *Nature*, **1993**, 362, 417-8	50.4	2
18	Cycle-specific female preferences for visual and non-visual cues in the horse (Equus caballus). *PLoS ONE*, **2018**, 13, e0191845	3.7	2
17	Sex-specific changes in gene expression and delayed sex differentiation in response to estrogen pollution in grayling (Salmonidae)		2
16	The establishment of communication systems depends on the scale of competition. *Evolution and Human Behavior*, **2012**, 33, 232-240	4	1
15	Mate Choice, the Major Histocompatibility Complex, and Offspring Viability309-321		1
14	Sex differentiation in grayling (Salmonidae) goes through an all-male stage and is delayed in genetic males who instead grow faster		1
13	Toxicity of 2 pg ethynylestradiol in brown trout embryos (Salmo trutta)		1
12	High interindividual and intraindividual variation of oxytocin secretion in estrous mares exposed to stallions, but no significant link to mate preferences. *Theriogenology*, **2016**, 86, 2222-2229	2.8	1
11	Testing for population differences in evolutionary responses to pesticide pollution in brown trout (). *Evolutionary Applications*, **2021**, 14, 462-475	4.8	1
10	Population Consequences of Releasing Sex-Reversed Fish **2018**, 179-188		1
9	Sequence diversity of Mhc genes in lake whitefish **2001**, 58, 359		1

8	Pros and cons of fluorescent pigment mass marking with different colours: A 5-year long study on grayling (Thymallus thymallus L.). *Fisheries Management and Ecology*, **2017**, 24, 173-175	1.8	0
7	Male sexual signaling and expected effects of hatchery-induced sperm competition vary with water depth at which whitefish are caught. *Environmental Epigenetics*, **2021**, 67, 337-340	2.4	0
6	Embryo survival in the oviduct not significantly influenced by major histocompatibility complex social signaling in the horse. *Scientific Reports*, **2020**, 10, 1056	4.9	
5	Stochasticity in economic losses increases the value of reputation in indirect reciprocity. *Scientific Reports*, **2015**, 5, 18182	4.9	
4	Valuable reputation gained by altruistic behavioral patterns. *Behavioral and Brain Sciences*, **2002**, 25, 279-280	0.9	
3	TGoodTand TbadTbody odours. *Current Problems in Dermatology*, **2002**, 30, 23-9		
2	Implications of Sexual Selection for Virulence Management **2002**, 248-261		
1	Mate choice and maternal selection for specific parasite resistances before, during and after fertilization **1997**, 33-41		