

Thomas D Kocher

List of Publications by Year in descending order

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75
papers

10,500
citations

81900

39
h-index

69250

77
g-index

84
all docs

84
docs citations

84
times ranked

7029
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of the cytochrome b gene of mammals. <i>Journal of Molecular Evolution</i> , 1991, 32, 128-144.	1.8	2,029
2	Monophyletic origin of Lake Victoria cichlid fishes suggested by mitochondrial DNA sequences. <i>Nature</i> , 1990, 347, 550-553.	27.8	891
3	Adaptive evolution and explosive speciation: the cichlid fish model. <i>Nature Reviews Genetics</i> , 2004, 5, 288-298.	16.3	888
4	The genomic substrate for adaptive radiation in African cichlid fish. <i>Nature</i> , 2014, 513, 375-381.	27.8	874
5	Sexual Conflict Resolved by Invasion of a Novel Sex Determiner in Lake Malawi Cichlid Fishes. <i>Science</i> , 2009, 326, 998-1001.	12.6	321
6	A Tandem Duplicate of Anti-Müllerian Hormone with a Missense SNP on the Y Chromosome Is Essential for Male Sex Determination in Nile Tilapia, <i>Oreochromis niloticus</i> . <i>PLoS Genetics</i> , 2015, 11, e1005678.	3.5	315
7	Directional selection has shaped the oral jaws of Lake Malawi cichlid fishes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 5252-5257.	7.1	290
8	Integration and evolution of the cichlid mandible: The molecular basis of alternate feeding strategies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16287-16292.	7.1	277
9	Speciation in rapidly diverging systems: lessons from Lake Malawi. <i>Molecular Ecology</i> , 2001, 10, 1075-1086.	3.9	267
10	A Genetic Linkage Map of a Cichlid Fish, the Tilapia (<i>Oreochromis niloticus</i>). <i>Genetics</i> , 1998, 148, 1225-1232.	2.9	259
11	A Second-Generation Genetic Linkage Map of Tilapia (<i>Oreochromis spp.</i>) Sequence data from this article have been deposited with the EMBL/GenBank data libraries under accession nos. G68180, G68324 and BV005269, BV005594. <i>Genetics</i> , 2005, 170, 237-244.	2.9	243
12	Cone Opsin Genes of African Cichlid Fishes: Tuning Spectral Sensitivity by Differential Gene Expression. <i>Molecular Biology and Evolution</i> , 2001, 18, 1540-1550.	8.9	229
13	Evolution of NADH Dehydrogenase Subunit 2 in East African Cichlid Fish. <i>Molecular Phylogenetics and Evolution</i> , 1995, 4, 420-432.	2.7	214
14	Genetic and ecological divergence of a monophyletic cichlid species pair under fully sympatric conditions in Lake Ejagham, Cameroon. <i>Molecular Ecology</i> , 2001, 10, 1471-1488.	3.9	197
15	A high quality assembly of the Nile Tilapia (<i>Oreochromis niloticus</i>) genome reveals the structure of two sex determination regions. <i>BMC Genomics</i> , 2017, 18, 341.	2.8	179
16	MULTIPLE INTERACTING LOCI CONTROL SEX DETERMINATION IN LAKE MALAWI CICHLID FISH. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 486-501.	2.3	177
17	Aquaculture genomics, genetics and breeding in the United States: current status, challenges, and priorities for future research. <i>BMC Genomics</i> , 2017, 18, 191.	2.8	155
18	Adaptive Molecular Evolution in the Opsin Genes of Rapidly Speciating Cichlid Species. <i>Molecular Biology and Evolution</i> , 2005, 22, 1412-1422.	8.9	138

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19	Origin and Evolution of B Chromosomes in the Cichlid Fish <i>Astatotilapia latifasciata</i> Based on Integrated Genomic Analyses. <i>Molecular Biology and Evolution</i> , 2014, 31, 2061-2072.	8.9	112
20	Craniofacial divergence and ongoing adaptation via the hedgehog pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13194-13199.	7.1	109
21	Genome mapping of the orange blotch colour pattern in cichlid fishes. <i>Molecular Ecology</i> , 2003, 12, 2465-2471.	3.9	107
22	Population structure and colour variation of the cichlid fishes <i>Labeotropheus fuelleborni</i> Ahl along a recently formed archipelago of rocky habitat patches in southern Lake Malawi. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1999, 266, 119-130.	2.6	106
23	<i>Amh</i> and <i>Dmrta2</i> Genes Map to Tilapia (<i>Oreochromis</i> spp.) Linkage Group 23 Within Quantitative Trait Locus Regions for Sex Determination. <i>Genetics</i> , 2006, 174, 1573-1581.	2.9	106
24	A high-resolution map of the Nile tilapia genome: a resource for studying cichlids and other percomorphs. <i>BMC Genomics</i> , 2012, 13, 222.	2.8	104
25	Comparative analysis reveals signatures of differentiation amid genomic polymorphism in Lake Malawi cichlids. <i>Genome Biology</i> , 2008, 9, R113.	9.6	101
26	Unusual Diversity of Sex Chromosomes in African Cichlid Fishes. <i>Genes</i> , 2018, 9, 480.	2.4	92
27	DIVERGENCE WITH GENE FLOW IN THE ROCK-DWELLING CICHLIDS OF LAKE MALAWI. <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 1725-1737.	2.3	88
28	Origins of Shared Genetic Variation in African Cichlids. <i>Molecular Biology and Evolution</i> , 2013, 30, 906-917.	8.9	86
29	Integrated analysis of miRNA and mRNA expression profiles in tilapia gonads at an early stage of sex differentiation. <i>BMC Genomics</i> , 2016, 17, 328.	2.8	86
30	Chromosome-scale assemblies reveal the structural evolution of African cichlid genomes. <i>GigaScience</i> , 2019, 8, .	6.4	83
31	Biogeography and population genetics of the Lake Malawi cichlid <i>Melanochromis auratus</i> : habitat transience, philopatry and speciation. <i>Molecular Ecology</i> , 1999, 8, 1013-1026.	3.9	79
32	Assessing morphological differences in an adaptive trait: A landmark-based morphometric approach. <i>The Journal of Experimental Zoology</i> , 2001, 289, 385-403.	1.4	76
33	Chromosome differentiation patterns during cichlid fish evolution. <i>BMC Genetics</i> , 2010, 11, 50.	2.7	74
34	A BAC-based physical map of the Nile tilapia genome. <i>BMC Genomics</i> , 2005, 6, 89.	2.8	72
35	Transcriptome display during tilapia sex determination and differentiation as revealed by RNA-Seq analysis. <i>BMC Genomics</i> , 2018, 19, 363.	2.8	68
36	FURTHER GENETIC ANALYSES OF A HYBRID ZONE BETWEEN LEOPARD FROGS (<i>RANA PIPIENS</i>)	2.8	66

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37	Genetic and Physical Mapping of Sex-Linked AFLP Markers in Nile Tilapia (<i>Oreochromis niloticus</i>). <i>Marine Biotechnology</i> , 2011, 13, 557-562.	2.4	63
38	An improved genome reference for the African cichlid, <i>Metriacrima zebra</i> . <i>BMC Genomics</i> , 2015, 16, 724.	2.8	61
39	Structure and decay of a proto-Y region in Tilapia, <i>Oreochromis niloticus</i> . <i>BMC Genomics</i> , 2014, 15, 975.	2.8	48
40	Mapping of pigmentation QTL on an anchored genome assembly of the cichlid fish, <i>Metriacrima zebra</i> . <i>BMC Genomics</i> , 2013, 14, 287.	2.8	40
41	Dynamic Sequence Evolution of a Sex-Associated B Chromosome in Lake Malawi Cichlid Fish. <i>Journal of Heredity</i> , 2017, 108, 53-62.	2.4	36
42	Changing sex for selfish gain: B chromosomes of Lake Malawi cichlid fish. <i>Scientific Reports</i> , 2019, 9, 20213.	3.3	34
43	Tol2-mediated transgenesis in tilapia (<i>Oreochromis niloticus</i>). <i>Aquaculture</i> , 2011, 319, 342-346.	3.5	32
44	Comparative analysis of a sex chromosome from the blackchin tilapia, <i>Sarotherodon melanotheron</i> . <i>BMC Genomics</i> , 2016, 17, 808.	2.8	32
45	Loss of <i>Cyp11c1</i> causes delayed spermatogenesis due to the absence of 11-ketotestosterone. <i>Journal of Endocrinology</i> , 2020, 244, 487-499.	2.6	31
46	Integrating cytogenetics and genomics in comparative evolutionary studies of cichlid fish. <i>BMC Genomics</i> , 2012, 13, 463.	2.8	30
47	An allelic series at <i>pax7a</i> is associated with colour polymorphism diversity in Lake Malawi cichlid fish. <i>Molecular Ecology</i> , 2017, 26, 2625-2639.	3.9	30
48	Novel Sex Chromosomes in 3 Cichlid Fishes from Lake Tanganyika. <i>Journal of Heredity</i> , 2018, 109, 489-500.	2.4	30
49	Nile Tilapia: A Model for Studying Teleost Color Patterns. <i>Journal of Heredity</i> , 2021, 112, 469-484.	2.4	30
50	Diurnal variation in opsin expression and common housekeeping genes necessitates comprehensive normalization methods for quantitative real-time PCR analyses. <i>Molecular Ecology Resources</i> , 2019, 19, 1447-1460.	4.8	27
51	Chromosome-level genome assembly of a cyprinid fish <i>Onychostoma macrolepis</i> by integration of nanopore sequencing, Bionano and Hi-C technology. <i>Molecular Ecology Resources</i> , 2020, 20, 1361-1371.	4.8	27
52	Ecomorphological divergence and habitat lability in the context of robust patterns of modularity in the cichlid feeding apparatus. <i>BMC Evolutionary Biology</i> , 2020, 20, 95.	3.2	26
53	African fishes. <i>Nature</i> , 1991, 350, 467-468.	27.8	25
54	The genetic relationships of two subspecies of striped field mice, <i>Apodemus agrarius coreae</i> and <i>Apodemus agrarius chejuensis</i> . <i>Heredity</i> , 2000, 85, 30-36.	2.6	25

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55	Comparative physical maps derived from BAC end sequences of tilapia (<i>Oreochromis niloticus</i>). BMC Genomics, 2010, 11, 636.	2.8	25
56	Circular DNA Intermediate in the Duplication of Nile Tilapia vasa Genes. PLoS ONE, 2011, 6, e29477.	2.5	24
57	Origin of a Giant Sex Chromosome. Molecular Biology and Evolution, 2021, 38, 1554-1569.	8.9	24
58	A Small Number of Genes Underlie Male Pigmentation Traits in Lake Malawi Cichlid Fishes. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2012, 318, 199-208.	1.3	23
59	Sex-linked markers and microsatellite locus duplication in the cichlid species <i>Oreochromis tanganyicae</i> . Biology Letters, 2008, 4, 700-703.	2.3	22
60	Genomic Characterization of a B Chromosome in Lake Malawi Cichlid Fishes. Genes, 2018, 9, 610.	2.4	22
61	Chromosome-level assembly of southern catfish (<i>Silurus meridionalis</i>) provides insights into visual adaptation to nocturnal and benthic lifestyles. Molecular Ecology Resources, 2021, 21, 1575-1592.	4.8	20
62	Movement of transposable elements contributes to cichlid diversity. Molecular Ecology, 2020, 29, 4956-4969.	3.9	18
63	Homozygous mutation of foxh1 arrests oogenesis causing infertility in female Nile tilapia. Biology of Reproduction, 2020, 102, 758-769.	2.7	17
64	CRISPR Knockouts of <i>pmela</i> and <i>pmelb</i> Engineered a Golden Tilapia by Regulating Relative Pigment Cell Abundance. Journal of Heredity, 2022, 113, 398-413.	2.4	17
65	Characterization of sex chromosomes in three deeply diverged species of Pseudocrenilabrinae (Teleostei: Cichlidae). Hydrobiologia, 2019, 832, 397-408.	2.0	16
66	Identification of sex chromosome and sex-determining gene of southern catfish (<i>Silurus</i>) Biological Sciences, 2022, 289, 20212645.	2.6	14
67	Structure and Sequence of the Sex Determining Locus in Two Wild Populations of Nile Tilapia. Genes, 2020, 11, 1017.	2.4	12
68	Polymorphism of Sex Determination Amongst Wild Populations Suggests its Rapid Turnover Within the Nile Tilapia Species. Frontiers in Genetics, 2022, 13, .	2.3	6
69	Identification, Expression and Evolution of Short-Chain Dehydrogenases/Reductases in Nile Tilapia (<i>Oreochromis niloticus</i>). International Journal of Molecular Sciences, 2021, 22, 4201.	4.1	5
70	A Chromosome-Level Genome Assembly of Mozambique Tilapia (<i>Oreochromis mossambicus</i>) Reveals the Structure of Sex Determining Regions. Frontiers in Genetics, 2021, 12, 796211.	2.3	5
71	New Sex Chromosomes in Lake Victoria Cichlid Fishes (Cichlidae: Haplochromini). Genes, 2022, 13, 804.	2.4	5
72	Network architecture and sex chromosome turnovers. BioEssays, 2021, 43, 2000161.	2.5	4

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73	Understanding Student Perceptions and Practices for Pre-Lecture Content Reading in the Genetics Classroom. Journal of Microbiology and Biology Education, 2018, 19, .	1.0	3
74	Screening and characterization of sex-linked DNA markers in Mozambique tilapia (<i>Oreochromis</i>) Tj ETQq0 0 0 rgBT JOverlock_10 Tf 50 7	3.5	2
75	Visual adaptation could aid sympatric speciation in a deep crater lake. Molecular Ecology, 2019, 28, 5007-5009.	3.9	1