

# Thomas D Kocher

## List of Publications by Citations

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75  
papers

8,570  
citations

38  
h-index

84  
g-index

84  
ext. papers

9,644  
ext. citations

7.5  
avg, IF

6.09  
L-index

#	Paper	IF	Citations
75	Evolution of the cytochrome b gene of mammals. <i>Journal of Molecular Evolution</i> , <b>1991</b> , 32, 128-44	3.1	1787
74	Monophyletic origin of Lake Victoria cichlid fishes suggested by mitochondrial DNA sequences. <i>Nature</i> , <b>1990</b> , 347, 550-3	50.4	797
73	Adaptive evolution and explosive speciation: the cichlid fish model. <i>Nature Reviews Genetics</i> , <b>2004</b> , 5, 288-98	30.1	738
72	The genomic substrate for adaptive radiation in African cichlid fish. <i>Nature</i> , <b>2014</b> , 513, 375-381	50.4	656
71	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> , <b>2003</b> , 100, 5252-7	11.5	261
70	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> , <b>2005</b> , 102, 16287-92	11.5	245
69	Speciation in rapidly diverging systems: lessons from Lake Malawi. <i>Molecular Ecology</i> , <b>2001</b> , 10, 1075-86	5.7	244
68	Sexual conflict resolved by invasion of a novel sex determiner in Lake Malawi cichlid fishes. <i>Science</i> , <b>2009</b> , 326, 998-1001	33.3	242
67	A genetic linkage map of a cichlid fish, the tilapia ( <i>Oreochromis niloticus</i> ). <i>Genetics</i> , <b>1998</b> , 148, 1225-32	4	214
66	A second-generation genetic linkage map of tilapia ( <i>Oreochromis</i> spp.). <i>Genetics</i> , <b>2005</b> , 170, 237-44	4	212
65	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> , <b>2015</b> , 11, e1005678	6.1	210
64	Cone opsin genes of african cichlid fishes: tuning spectral sensitivity by differential gene expression. <i>Molecular Biology and Evolution</i> , <b>2001</b> , 18, 1540-50	8.3	210
63	Evolution of NADH dehydrogenase subunit 2 in east African cichlid fish. <i>Molecular Phylogenetics and Evolution</i> , <b>1995</b> , 4, 420-32	4.1	193
62	Genetic and ecological divergence of a monophyletic cichlid species pair under fully sympatric conditions in Lake Ejagham, Cameroon. <i>Molecular Ecology</i> , <b>2001</b> , 10, 1471-88	5.7	172
61	Multiple interacting loci control sex determination in lake Malawi cichlid fish. <i>Evolution; International Journal of Organic Evolution</i> , <b>2010</b> , 64, 486-501	3.8	132
60	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> , <b>2017</b> , 18, 341	4.5	112
59	Adaptive molecular evolution in the opsin genes of rapidly speciating cichlid species. <i>Molecular Biology and Evolution</i> , <b>2005</b> , 22, 1412-22	8.3	112

58	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> , <b>1999</b> , 266, 119-130	4.4	100
57	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> , <b>2014</b> , 31, 2061-72	8.3	96
56	A high-resolution map of the Nile tilapia genome: a resource for studying cichlids and other percomorphs. <i>BMC Genomics</i> , <b>2012</b> , 13, 222	4.5	94
55	Comparative analysis reveals signatures of differentiation amid genomic polymorphism in Lake Malawi cichlids. <i>Genome Biology</i> , <b>2008</b> , 9, R113	18.3	89
54	Craniofacial divergence and ongoing adaptation via the hedgehog pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 13194-9	11.5	86
53	Amh and Dmrta2 genes map to tilapia ( <i>Oreochromis</i> spp.) linkage group 23 within quantitative trait locus regions for sex determination. <i>Genetics</i> , <b>2006</b> , 174, 1573-81	4	84
52	Genome mapping of the orange blotch colour pattern in cichlid fishes. <i>Molecular Ecology</i> , <b>2003</b> , 12, 2465-71	5.7	82
51	Divergence with gene flow in the rock-dwelling cichlids of Lake Malawi. <i>Evolution; International Journal of Organic Evolution</i> , <b>2000</b> , 54, 1725-37	3.8	81
50	Biogeography and population genetics of the Lake Malawi cichlid <i>Melanochromis auratus</i> : habitat transience, philopatry and speciation. <i>Molecular Ecology</i> , <b>1999</b> , 8, 1013-1026	5.7	76
49	Origins of shared genetic variation in African cichlids. <i>Molecular Biology and Evolution</i> , <b>2013</b> , 30, 906-17	8.3	75
48	Unusual Diversity of Sex Chromosomes in African Cichlid Fishes. <i>Genes</i> , <b>2018</b> , 9,	4.2	66
47	Chromosome differentiation patterns during cichlid fish evolution. <i>BMC Genetics</i> , <b>2010</b> , 11, 50	2.6	65
46	A BAC-based physical map of the Nile tilapia genome. <i>BMC Genomics</i> , <b>2005</b> , 6, 89	4.5	64
45	Assessing morphological differences in an adaptive trait: a landmark-based morphometric approach. <i>The Journal of Experimental Zoology</i> , <b>2001</b> , 289, 385-403		64
44	FURTHER GENETIC ANALYSES OF A HYBRID ZONE BETWEEN LEOPARD FROGS ( <i>RANA PIPIENS</i> COMPLEX) IN CENTRAL TEXAS. <i>Evolution; International Journal of Organic Evolution</i> , <b>1986</b> , 40, 21-33	3.8	63
43	Integrated analysis of miRNA and mRNA expression profiles in tilapia gonads at an early stage of sex differentiation. <i>BMC Genomics</i> , <b>2016</b> , 17, 328	4.5	56
42	Genetic and physical mapping of sex-linked AFLP markers in Nile tilapia ( <i>Oreochromis niloticus</i> ). <i>Marine Biotechnology</i> , <b>2011</b> , 13, 557-62	3.4	54
41	Chromosome-scale assemblies reveal the structural evolution of African cichlid genomes. <i>GigaScience</i> , <b>2019</b> , 8,	7.6	46

40	An improved genome reference for the African cichlid, <i>Metriacrima zebra</i> . <i>BMC Genomics</i> , <b>2015</b> , 16, 724	4.5	40
39	Structure and decay of a proto-Y region in Tilapia, <i>Oreochromis niloticus</i> . <i>BMC Genomics</i> , <b>2014</b> , 15, 975	4.5	40
38	Transcriptome display during tilapia sex determination and differentiation as revealed by RNA-Seq analysis. <i>BMC Genomics</i> , <b>2018</b> , 19, 363	4.5	32
37	Mapping of pigmentation QTL on an anchored genome assembly of the cichlid fish, <i>Metriacrima zebra</i> . <i>BMC Genomics</i> , <b>2013</b> , 14, 287	4.5	31
36	Dynamic Sequence Evolution of a Sex-Associated B Chromosome in Lake Malawi Cichlid Fish. <i>Journal of Heredity</i> , <b>2017</b> , 108, 53-62	2.4	30
35	Tol2-mediated transgenesis in tilapia ( <i>Oreochromis niloticus</i> ). <i>Aquaculture</i> , <b>2011</b> , 319, 342-346	4.4	28
34	Integrating cytogenetics and genomics in comparative evolutionary studies of cichlid fish. <i>BMC Genomics</i> , <b>2012</b> , 13, 463	4.5	27
33	Novel Sex Chromosomes in 3 Cichlid Fishes from Lake Tanganyika. <i>Journal of Heredity</i> , <b>2018</b> , 109, 489-500	4.4	26
32	Comparative analysis of a sex chromosome from the blackchin tilapia, <i>Sarotherodon melanotheron</i> . <i>BMC Genomics</i> , <b>2016</b> , 17, 808	4.5	26
31	African fishes. <i>Nature</i> , <b>1991</b> , 350, 467-468	50.4	25
30	Comparative physical maps derived from BAC end sequences of tilapia ( <i>Oreochromis niloticus</i> ). <i>BMC Genomics</i> , <b>2010</b> , 11, 636	4.5	24
29	Changing sex for selfish gain: B chromosomes of Lake Malawi cichlid fish. <i>Scientific Reports</i> , <b>2019</b> , 9, 20213	4.3	23
28	Circular DNA intermediate in the duplication of Nile tilapia vasa genes. <i>PLoS ONE</i> , <b>2011</b> , 6, e29477	3.7	21
27	Sex-linked markers and microsatellite locus duplication in the cichlid species <i>Oreochromis tanganicae</i> . <i>Biology Letters</i> , <b>2008</b> , 4, 700-3	3.6	21
26	The genetic relationships of two subspecies of striped field mice, <i>Apodemus agrarius coreae</i> and <i>Apodemus agrarius chejuensis</i> . <i>Heredity</i> , <b>2000</b> , 85 ( Pt 1), 30-6	3.6	20
25	A small number of genes underlie male pigmentation traits in Lake Malawi cichlid fishes. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , <b>2012</b> , 318, 199-208	1.8	19
24	Loss of Cyp11c1 causes delayed spermatogenesis due to the absence of 11-ketotestosterone. <i>Journal of Endocrinology</i> , <b>2020</b> , 244, 487-499	4.7	17
23	Characterization of sex chromosomes in three deeply diverged species of Pseudocrenilabrinae (Teleostei: Cichlidae). <i>Hydrobiologia</i> , <b>2019</b> , 832, 397-408	2.4	15

22	Genomic Characterization of a B Chromosome in Lake Malawi Cichlid Fishes. <i>Genes</i> , <b>2018</b> , 9,	4.2	15
21	An allelic series at pax7a is associated with colour polymorphism diversity in Lake Malawi cichlid fish. <i>Molecular Ecology</i> , <b>2017</b> , 26, 2625-2639	5.7	12
20	Origin of a Giant Sex Chromosome. <i>Molecular Biology and Evolution</i> , <b>2021</b> , 38, 1554-1569	8.3	12
19	Ecomorphological divergence and habitat lability in the context of robust patterns of modularity in the cichlid feeding apparatus. <i>BMC Evolutionary Biology</i> , <b>2020</b> , 20, 95	3	10
18	Nile Tilapia: A Model for Studying Teleost Color Patterns. <i>Journal of Heredity</i> , <b>2021</b> , 112, 469-484	2.4	10
17	Diurnal variation in opsin expression and common housekeeping genes necessitates comprehensive normalization methods for quantitative real-time PCR analyses. <i>Molecular Ecology Resources</i> , <b>2019</b> , 19, 1447-1460	8.4	9
16	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> , <b>2020</b> , 20, 1361-1371	8.4	8
15	Movement of transposable elements contributes to cichlid diversity. <i>Molecular Ecology</i> , <b>2020</b> , 29, 4956-4969	4.7	8
14	Structure and Sequence of the Sex Determining Locus in Two Wild Populations of Nile Tilapia. <i>Genes</i> , <b>2020</b> , 11,	4.2	6
13	Chromosome-scale assemblies reveal the structural evolution of African cichlid genomes		5
12	A High Quality Assembly of the Nile Tilapia ( <i>Oreochromis niloticus</i> ) Genome Reveals the Structure of Two Sex Determination Regions		4
11	Homozygous mutation of foxh1 arrests oogenesis causing infertility in female Nile tilapia. <i>Biology of Reproduction</i> , <b>2020</b> , 102, 758-769	3.9	4
10	Chromosome-level assembly of southern catfish ( <i>Silurus meridionalis</i> ) provides insights into visual adaptation to nocturnal and benthic lifestyles. <i>Molecular Ecology Resources</i> , <b>2021</b> , 21, 1575-1592	8.4	3
9	CRISPR knockouts of pmela and pmelb engineered a golden tilapia by regulating relative pigment cell abundance. <i>Journal of Heredity</i> , <b>2022</b> ,	2.4	3
8	Movement of transposable elements contributes to cichlid diversity		2
7	Understanding Student Perceptions and Practices for Pre-Lecture Content Reading in the Genetics Classroom. <i>Journal of Microbiology and Biology Education</i> , <b>2018</b> , 19,	1.3	2
6	Identification of sex chromosome and sex-determining gene of southern catfish ( <i>Silurus meridionalis</i> ) based on XX, XY and YY genome sequencing. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2022</b> , 289, 20212645	4.4	2
5	Identification, Expression and Evolution of Short-Chain Dehydrogenases/Reductases in Nile Tilapia ( <i>Oreochromis niloticus</i> ). <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1

4	Network architecture and sex chromosome turnovers: Do epistatic interactions shape patterns of sex chromosome replacement?. <i>BioEssays</i> , <b>2021</b> , 43, e2000161	4.1	1
3	A Chromosome-Level Genome Assembly of Mozambique Tilapia () Reveals the Structure of Sex Determining Regions.. <i>Frontiers in Genetics</i> , <b>2021</b> , 12, 796211	4.5	1
2	New Sex Chromosomes in Lake Victoria Cichlid Fishes (Cichlidae: Haplochromini). <i>Genes</i> , <b>2022</b> , 13, 804	4.2	1
1	Screening and characterization of sex-linked DNA markers in Mozambique tilapia ( <i>Oreochromis mossambicus</i> ). <i>Aquaculture</i> , <b>2022</b> , 738331	4.4	