

# Masakatsu Watanabe

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

1,737  
citations

304602

22  
h-index

289141

40  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1748  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spot pattern of leopard Danio is caused by mutation in the zebrafish connexin41.8 gene. EMBO Reports, 2006, 7, 893-897.	2.0	178
2	Divergent Selection on Opsins Drives Incipient Speciation in Lake Victoria Cichlids. PLoS Biology, 2006, 4, e433.	2.6	167
3	B Chromosomes Have a Functional Effect on Female Sex Determination in Lake Victoria Cichlid Fishes. PLoS Genetics, 2011, 7, e1002203.	1.5	134
4	Pigment Pattern in jaguar/obelisk Zebrafish Is Caused by a Kir7.1 Mutation: Implications for the Regulation of Melanosome Movement. PLoS Genetics, 2006, 2, e197.	1.5	124
5	Involvement of Delta/Notch signaling in zebrafish adult pigment stripe patterning. Development (Cambridge), 2014, 141, 318-324.	1.2	122
6	Is pigment patterning in fish skin determined by the Turing mechanism?. Trends in Genetics, 2015, 31, 88-96.	2.9	110
7	Melanophore Migration and Survival during Zebrafish Adult Pigment Stripe Development Require the Immunoglobulin Superfamily Adhesion Molecule Igsf11. PLoS Genetics, 2012, 8, e1002899.	1.5	75
8	Biosynthesis of Archaeosine, a Novel Derivative of 7-Deazaguanosine Specific to Archaeal tRNA, Proceeds via a Pathway Involving Base Replacement on the tRNA Polynucleotide Chain. Journal of Biological Chemistry, 1997, 272, 20146-20151.	1.6	74
9	Crystal Structure of Archaeosine tRNA-guanine Transglycosylase. Journal of Molecular Biology, 2002, 318, 665-677.	2.0	59
10	Changing clothes easily: <i>connexin41.8</i> regulates skin pattern variation. Pigment Cell and Melanoma Research, 2012, 25, 326-330.	1.5	56
11	The Genetic Basis of Morphological Diversity in Domesticated Goldfish. Current Biology, 2020, 30, 2260-2274.e6.	1.8	52
12	Cryo-EM structures of undocked innexin-6 hemichannels in phospholipids. Science Advances, 2020, 6, eaax3157.	4.7	37
13	The Physiological Characterization of Connexin41.8 and Connexin39.4, Which Are Involved in the Striped Pattern Formation of Zebrafish. Journal of Biological Chemistry, 2016, 291, 1053-1063.	1.6	35
14	cimp1, A Novel Astacin Family Metalloproteinase Gene from East African Cichlids, Is Differentially Expressed Between Species During Growth. Molecular Biology and Evolution, 2005, 22, 1649-1660.	3.5	34
15	Structures of human pannexin-1 in nanodiscs reveal gating mediated by dynamic movement of the N terminus and phospholipids. Science Signaling, 2022, 15, eabg6941.	1.6	34
16	Tetraspanin 3c requirement for pigment cell interactions and boundary formation in zebrafish adult pigment stripes. Pigment Cell and Melanoma Research, 2014, 27, 190-200.	1.5	32
17	tRNA Recognition of tRNA-guanine Transglycosylase from a Hyperthermophilic Archaeon, Pyrococcus horikoshii. Journal of Biological Chemistry, 2001, 276, 2387-2394.	1.6	29
18	Construction of a BAC library for Haplochromis chilotes, a cichlid fish from Lake Victoria.. Genes and Genetic Systems, 2003, 78, 103-105.	0.2	29

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19	Extensive analysis of ORF sequences from two different cichlid species in Lake Victoria provides molecular evidence for a recent radiation event of the Victoria species flock. <i>Gene</i> , 2004, 343, 263-269.	1.0	29
20	Genetic and Biochemical Characterization of EshA, a Protein That Forms Large Multimers and Affects Developmental Processes in <i>Streptomyces griseus</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 5902-5911.	1.6	28
21	Polyamine sensitivity of gap junctions is required for skin pattern formation in zebrafish. <i>Scientific Reports</i> , 2012, 2, 473.	1.6	28
22	KLF4-Induced Connexin40 Expression Contributes to Arterial Endothelial Quiescence. <i>Frontiers in Physiology</i> , 2019, 10, 80.	1.3	24
23	magp4 gene may contribute to the diversification of cichlid morphs and their speciation. <i>Gene</i> , 2006, 373, 126-133.	1.0	23
24	Molecular and Functional Analyses of the Gene (eshA) Encoding the 52-Kilodalton Protein of <i>Streptomyces coelicolor</i> A3(2) Required for Antibiotic Production. <i>Journal of Bacteriology</i> , 2001, 183, 6009-6016.	1.0	22
25	Gap Junction in the Teleost Fish Lineage: Duplicated Connexins May Contribute to Skin Pattern Formation and Body Shape Determination. <i>Frontiers in Cell and Developmental Biology</i> , 2017, 5, 13.	1.8	22
26	Connexin Communication Compartments and Wound Repair in Epithelial Tissue. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1354.	1.8	22
27	Studies of Turing pattern formation in zebrafish skin. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200274.	1.6	22
28	Comment on "Local reorganization of xanthophores fine-tunes and colors the striped pattern of zebrafish". <i>Science</i> , 2015, 348, 297-297.	6.0	20
29	Two Different Functions of Connexin43 Confer Two Different Bone Phenotypes in Zebrafish. <i>Journal of Biological Chemistry</i> , 2016, 291, 12601-12611.	1.6	20
30	The minimal gap-junction network among melanophores and xanthophores required for stripe-pattern formation in zebrafish. <i>Development (Cambridge)</i> , 2019, 146, .	1.2	18
31	Extensive analysis of EST sequences reveals that all cichlid species in Lake Victoria share almost identical transcript sets. <i>Gene</i> , 2009, 441, 187-191.	1.0	14
32	Construction of Chromosome Markers from the Lake Victoria Cichlid <i>Paralabidochromis chilotes</i> and Their Application to Comparative Mapping. <i>Cytogenetic and Genome Research</i> , 2014, 142, 112-120.	0.6	14
33	A Novel Enzymatic Decarboxylation Proceeds via a Thiol Ester Intermediate. <i>Bulletin of the Chemical Society of Japan</i> , 1995, 68, 2017-2020.	2.0	10
34	Functional diversification of kir7.1 in cichlids accelerated by gene duplication. <i>Gene</i> , 2007, 399, 46-52.	1.0	7
35	Involvement of Delta/Notch signaling in zebrafish adult pigment stripe patterning. <i>Development (Cambridge)</i> , 2014, 141, 1418-1418.	1.2	7
36	Black, yellow, or silver: Which one leads skin pattern formation?. <i>Pigment Cell and Melanoma Research</i> , 2015, 28, 2-4.	1.5	7

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37	Melanophore multinucleation pathways in zebrafish. <i>Development Growth and Differentiation</i> , 2018, 60, 454-459.	0.6	7
38	Crystallization and preliminary X-ray analysis of the archaeosine tRNA-guanine transglycosylase from <i>Pyrococcus horikoshii</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 1659-1662.	2.5	4
39	A stalled-ribosome rescue factor Pth3 is required for mitochondrial translation against antibiotics in <i>Saccharomyces cerevisiae</i> . <i>Communications Biology</i> , 2021, 4, 300.	2.0	4
40	Theoretical Studies of Pigment Pattern Formation. , 2021, , 293-308.		2
41	Role of the Connexin C-terminus in skin pattern formation of Zebrafish. <i>BBA Advances</i> , 2021, 1, 100006.	0.7	2