

Masakatsu Watanabe

List of Publications by Citations

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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.

40
papers

1,328
citations

19
h-index

36
g-index

41
ext. papers

1,564
ext. citations

6.1
avg, IF

4.33
L-index

#	Paper	IF	Citations
40	Spot pattern of leopard Danio is caused by mutation in the zebrafish connexin41.8 gene. <i>EMBO Reports</i> , 2006 , 7, 893-7	6.5	149
39	Divergent selection on opsins drives incipient speciation in Lake Victoria cichlids. <i>PLoS Biology</i> , 2006 , 4, e433	9.7	146
38	Pigment pattern in jaguar/obelix zebrafish is caused by a Kir7.1 mutation: implications for the regulation of melanosome movement. <i>PLoS Genetics</i> , 2006 , 2, e197	6	108
37	B chromosomes have a functional effect on female sex determination in Lake Victoria cichlid fishes. <i>PLoS Genetics</i> , 2011 , 7, e1002203	6	101
36	Involvement of Delta/Notch signaling in zebrafish adult pigment stripe patterning. <i>Development (Cambridge)</i> , 2014 , 141, 318-24	6.6	89
35	Is pigment patterning in fish skin determined by the Turing mechanism?. <i>Trends in Genetics</i> , 2015 , 31, 88-96	8.5	82
34	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. <i>Journal of Biological Chemistry</i> , 1997 , 272, 20146-51	5.4	68
33	Melanophore migration and survival during zebrafish adult pigment stripe development require the immunoglobulin superfamily adhesion molecule Igsf11. <i>PLoS Genetics</i> , 2012 , 8, e1002899	6	57
32	Crystal structure of archaeosine tRNA-guanine transglycosylase. <i>Journal of Molecular Biology</i> , 2002 , 318, 665-77	6.5	54
31	Changing clothes easily: connexin41.8 regulates skin pattern variation. <i>Pigment Cell and Melanoma Research</i> , 2012 , 25, 326-30	4.5	40
30	cimp1, a novel astacin family metalloproteinase gene from East African cichlids, is differentially expressed between species during growth. <i>Molecular Biology and Evolution</i> , 2005 , 22, 1649-60	8.3	31
29	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: identity of EST sequences between <i>Haplochromis chilotes</i> and <i>Haplochromis</i> sp. "Redtailsheller". <i>Gene</i> , 2004 , 343, 263-9	3.8	28
28	tRNA recognition of tRNA-guanine transglycosylase from a hyperthermophilic archaeon, <i>Pyrococcus horikoshii</i> . <i>Journal of Biological Chemistry</i> , 2001 , 276, 2387-94	5.4	28
27	Construction of a BAC library for <i>Haplochromis chilotes</i> , a cichlid fish from Lake Victoria. <i>Genes and Genetic Systems</i> , 2003 , 78, 103-5	1.4	27
26	The Genetic Basis of Morphological Diversity in Domesticated Goldfish. <i>Current Biology</i> , 2020 , 30, 2260-2274.e65	3.4	25
25	Tetraspanin 3c requirement for pigment cell interactions and boundary formation in zebrafish adult pigment stripes. <i>Pigment Cell and Melanoma Research</i> , 2014 , 27, 190-200	4.5	25
24	Polyamine sensitivity of gap junctions is required for skin pattern formation in zebrafish. <i>Scientific Reports</i> , 2012 , 2, 473	4.9	24

23	magp4 gene may contribute to the diversification of cichlid morphs and their speciation. <i>Gene</i> , 2006 , 373, 126-33	3.8	23
22	The Physiological Characterization of Connexin41.8 and Connexin39.4, Which Are Involved in the Striped Pattern Formation of Zebrafish. <i>Journal of Biological Chemistry</i> , 2016 , 291, 1053-63	5.4	21
21	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, 6009-16	3.5	19
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, 5902-11	5.4	17
19	Cryo-EM structures of undocked innexin-6 hemichannels in phospholipids. <i>Science Advances</i> , 2020 , 6, eaax3157	14.3	16
18	Fish pigmentation. Comment on "Local reorganization of xanthophores fine-tunes and colors the striped pattern of zebrafish". <i>Science</i> , 2015 , 348, 297	33.3	15
17	Two Different Functions of Connexin43 Confer Two Different Bone Phenotypes in Zebrafish. <i>Journal of Biological Chemistry</i> , 2016 , 291, 12601-12611	5.4	14
16	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, 112-20	1.9	14
15	Extensive analysis of EST sequences reveals that all cichlid species in Lake Victoria share almost identical transcript sets. <i>Gene</i> , 2009 , 441, 187-91	3.8	14
14	Connexin Communication Compartments and Wound Repair in Epithelial Tissue. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	13
13	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	5.7	13
12	The minimal gap-junction network among melanophores and xanthophores required for stripe pattern formation in zebrafish. <i>Development (Cambridge)</i> , 2019 , 146,	6.6	12
11	KLF4-Induced Connexin40 Expression Contributes to Arterial Endothelial Quiescence. <i>Frontiers in Physiology</i> , 2019 , 10, 80	4.6	10
10	A Novel Enzymatic Decarboxylation Proceeds via a Thiol Ester Intermediate. <i>Bulletin of the Chemical Society of Japan</i> , 1995 , 68, 2017-2020	5.1	10
9	Functional diversification of kir7.1 in cichlids accelerated by gene duplication. <i>Gene</i> , 2007 , 399, 46-52	3.8	6
8	Structures of human pannexin-1 in nanodiscs reveal gating mediated by dynamic movement of the N terminus and phospholipids.. <i>Science Signaling</i> , 2022 , 15, eabg6941	8.8	6
7	Involvement of Delta/Notch signaling in zebrafish adult pigment stripe patterning. <i>Development (Cambridge)</i> , 2014 , 141, 1418-1418	6.6	5
6	Melanophore multinucleation pathways in zebrafish. <i>Development Growth and Differentiation</i> , 2018 , 60, 454-459	3	4

5	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, 1659-62		4
4	Studies of Turing pattern formation in zebrafish skin. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200274	3	3
3	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	6.7	1
2	Role of the Connexin C-terminus in skin pattern formation of Zebrafish. <i>BBA Advances</i> , 2021 , 1, 100006		0
1	Theoretical Studies of Pigment Pattern Formation 2021 , 293-308		