

# Masakatsu Watanabe

## List of Publications by Year in Descending Order

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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	Structures of human pannexin-1 in nanodiscs reveal gating mediated by dynamic movement of the N terminus and phospholipids.. <i>Science Signaling</i> , <b>2022</b> , 15, eabg6941	8.8	6
39	Studies of Turing pattern formation in zebrafish skin. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2021</b> , 379, 20200274	3	3
38	A stalled-ribosome rescue factor Pth3 is required for mitochondrial translation against antibiotics in <i>Saccharomyces cerevisiae</i> . <i>Communications Biology</i> , <b>2021</b> , 4, 300	6.7	1
37	Theoretical Studies of Pigment Pattern Formation <b>2021</b> , 293-308		
36	Role of the Connexin C-terminus in skin pattern formation of Zebrafish. <i>BBA Advances</i> , <b>2021</b> , 1, 100006		0
35	The Genetic Basis of Morphological Diversity in Domesticated Goldfish. <i>Current Biology</i> , <b>2020</b> , 30, 2260-2274.e65		65
34	Cryo-EM structures of undocked innexin-6 hemichannels in phospholipids. <i>Science Advances</i> , <b>2020</b> , 6, eaax3157	14.3	16
33	KLF4-Induced Connexin40 Expression Contributes to Arterial Endothelial Quiescence. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 80	4.6	10
32	The minimal gap-junction network among melanophores and xanthophores required for stripe pattern formation in zebrafish. <i>Development (Cambridge)</i> , <b>2019</b> , 146,	6.6	12
31	Connexin Communication Compartments and Wound Repair in Epithelial Tissue. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	13
30	Melanophore multinucleation pathways in zebrafish. <i>Development Growth and Differentiation</i> , <b>2018</b> , 60, 454-459	3	4
29	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> , <b>2017</b> , 5, 13	5.7	13
28	Two Different Functions of Connexin43 Confer Two Different Bone Phenotypes in Zebrafish. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 12601-12611	5.4	14
27	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> , <b>2016</b> , 291, 1053-63	5.4	21
26	Fish pigmentation. Comment on "Local reorganization of xanthophores fine-tunes and colors the striped pattern of zebrafish". <i>Science</i> , <b>2015</b> , 348, 297	33.3	15
25	Is pigment patterning in fish skin determined by the Turing mechanism?. <i>Trends in Genetics</i> , <b>2015</b> , 31, 88-96	8.5	82
24	Involvement of Delta/Notch signaling in zebrafish adult pigment stripe patterning. <i>Development (Cambridge)</i> , <b>2014</b> , 141, 318-24	6.6	89

23	Tetraspanin 3c requirement for pigment cell interactions and boundary formation in zebrafish adult pigment stripes. <i>Pigment Cell and Melanoma Research</i> , <b>2014</b> , 27, 190-200	4.5	25
22	Involvement of Delta/Notch signaling in zebrafish adult pigment stripe patterning. <i>Development (Cambridge)</i> , <b>2014</b> , 141, 1418-1418	6.6	5
21	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> , <b>2014</b> , 142, 112-20	1.9	14
20	Changing clothes easily: connexin41.8 regulates skin pattern variation. <i>Pigment Cell and Melanoma Research</i> , <b>2012</b> , 25, 326-30	4.5	40
19	Melanophore migration and survival during zebrafish adult pigment stripe development require the immunoglobulin superfamily adhesion molecule Igsf11. <i>PLoS Genetics</i> , <b>2012</b> , 8, e1002899	6	57
18	Polyamine sensitivity of gap junctions is required for skin pattern formation in zebrafish. <i>Scientific Reports</i> , <b>2012</b> , 2, 473	4.9	24
17	B chromosomes have a functional effect on female sex determination in Lake Victoria cichlid fishes. <i>PLoS Genetics</i> , <b>2011</b> , 7, e1002203	6	101
16	Extensive analysis of EST sequences reveals that all cichlid species in Lake Victoria share almost identical transcript sets. <i>Gene</i> , <b>2009</b> , 441, 187-91	3.8	14
15	Functional diversification of kir7.1 in cichlids accelerated by gene duplication. <i>Gene</i> , <b>2007</b> , 399, 46-52	3.8	6
14	Pigment pattern in jaguar/obelix zebrafish is caused by a Kir7.1 mutation: implications for the regulation of melanosome movement. <i>PLoS Genetics</i> , <b>2006</b> , 2, e197	6	108
13	Divergent selection on opsins drives incipient speciation in Lake Victoria cichlids. <i>PLoS Biology</i> , <b>2006</b> , 4, e433	9.7	146
12	magp4 gene may contribute to the diversification of cichlid morphs and their speciation. <i>Gene</i> , <b>2006</b> , 373, 126-33	3.8	23
11	Spot pattern of leopard Danio is caused by mutation in the zebrafish connexin41.8 gene. <i>EMBO Reports</i> , <b>2006</b> , 7, 893-7	6.5	149
10	cimp1, a novel astacin family metalloproteinase gene from East African cichlids, is differentially expressed between species during growth. <i>Molecular Biology and Evolution</i> , <b>2005</b> , 22, 1649-60	8.3	31
9	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> , <b>2004</b> , 343, 263-9	3.8	28
8	Construction of a BAC library for <i>Haplochromis chilotes</i> , a cichlid fish from Lake Victoria. <i>Genes and Genetic Systems</i> , <b>2003</b> , 78, 103-5	1.4	27
7	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> , <b>2003</b> , 278, 5902-11	5.4	17
6	Crystal structure of archaeosine tRNA-guanine transglycosylase. <i>Journal of Molecular Biology</i> , <b>2002</b> , 318, 665-77	6.5	54

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> , <b>2001</b> , 57, 1659-62		4
4	tRNA recognition of tRNA-guanine transglycosylase from a hyperthermophilic archaeon, <i>Pyrococcus horikoshii</i> . <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 2387-94	5.4	28
3	Molecular and functional analyses of the gene ( <i>eshA</i> ) encoding the 52-kilodalton protein of <i>Streptomyces coelicolor</i> A3(2) required for antibiotic production. <i>Journal of Bacteriology</i> , <b>2001</b> , 183, 6009-16	3.5	19
2	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> , <b>1997</b> , 272, 20146-51	5.4	68
1	A Novel Enzymatic Decarboxylation Proceeds via a Thiol Ester Intermediate. <i>Bulletin of the Chemical Society of Japan</i> , <b>1995</b> , 68, 2017-2020	5.1	10