

# Makoto Kobayashi

## List of Publications by Year in descending order

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71  
papers

6,012  
citations

117571

34  
h-index

91828

69  
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all docs

71  
docs citations

71  
times ranked

8055  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Mechanisms Activating the Nrf2-Keap1 Pathway of Antioxidant Gene Regulation. <i>Antioxidants and Redox Signaling</i> , 2005, 7, 385-394.	2.5	982
2	A Transposon-Mediated Gene Trap Approach Identifies Developmentally Regulated Genes in Zebrafish. <i>Developmental Cell</i> , 2004, 7, 133-144.	3.1	767
3	Nrf2-Keap1 regulation of cellular defense mechanisms against electrophiles and reactive oxygen species. <i>Advances in Enzyme Regulation</i> , 2006, 46, 113-140.	2.9	747
4	The Antioxidant Defense System Keap1-Nrf2 Comprises a Multiple Sensing Mechanism for Responding to a Wide Range of Chemical Compounds. <i>Molecular and Cellular Biology</i> , 2009, 29, 493-502.	1.1	560
5	Identification of the interactive interface and phylogenic conservation of the Nrf2-Keap1 system. <i>Genes To Cells</i> , 2002, 7, 807-820.	0.5	298
6	Early subdivisions in the neural plate define distinct competence for inductive signals. <i>Development (Cambridge)</i> , 2002, 129, 83-93.	1.2	200
7	The Homeobox Protein Six3 Interacts with the Groucho Corepressor and Acts as a Transcriptional Repressor in Eye and Forebrain Formation. <i>Developmental Biology</i> , 2001, 232, 315-326.	0.9	162
8	Conservation of the Keap1-Nrf2 System: An Evolutionary Journey through Stressful Space and Time. <i>Molecules</i> , 2017, 22, 436.	1.7	123
9	Molecular Evolution of Keap1. <i>Journal of Biological Chemistry</i> , 2008, 283, 3248-3255.	1.6	104
10	Lhx2 mediates the activity of Six3 in zebrafish forebrain growth. <i>Developmental Biology</i> , 2005, 287, 456-468.	0.9	102
11	Pi class glutathione S-transferase genes are regulated by Nrf 2 through an evolutionarily conserved regulatory element in zebrafish. <i>Biochemical Journal</i> , 2005, 388, 65-73.	1.7	94
12	Promoter selectivity of Escherichia coli RNA polymerase: effect of base substitutions in the promoter -35 region on promoter strength. <i>Nucleic Acids Research</i> , 1990, 18, 7367-7372.	6.5	82
13	Expression of three zebrafish Six4 genes in the cranial sensory placodes and the developing somites. <i>Mechanisms of Development</i> , 2000, 98, 151-155.	1.7	82
14	Genetic Evidence of an Evolutionarily Conserved Role for Nrf2 in the Protection against Oxidative Stress. <i>Molecular and Cellular Biology</i> , 2012, 32, 4455-4461.	1.1	77
15	Characterization of the pufferfish Otx2 cis-regulators reveals evolutionarily conserved genetic mechanisms for vertebrate head specification. <i>Development (Cambridge)</i> , 2004, 131, 57-71.	1.2	74
16	Nitro-fatty acids and cyclopentenone prostaglandins share strategies to activate the Keap1-Nrf2 system: a study using green fluorescent protein transgenic zebrafish. <i>Genes To Cells</i> , 2011, 16, 46-57.	0.5	70
17	Molecular dissection of influenza virus nucleoprotein: deletion mapping of the RNA binding domain. <i>Journal of Virology</i> , 1994, 68, 8433-8436.	1.5	70
18	Influenza virus PB1 protein is the minimal and essential subunit of RNA polymerase. <i>Archives of Virology</i> , 1996, 141, 525-539.	0.9	68

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19	Hematopoietic regulatory domain of <i>gata1</i> gene is positively regulated by GATA1 protein in zebrafish embryos. <i>Development (Cambridge)</i> , 2001, 128, 2341-2350.	1.2	67
20	MafB is a critical regulator of complement component C1q. <i>Nature Communications</i> , 2017, 8, 1700.	5.8	60
21	Hdac1 Regulates Differentiation of Bipotent Liver Progenitor Cells During Regeneration via Sox9b and Cdk8. <i>Gastroenterology</i> , 2019, 156, 187-202.e14.	0.6	59
22	Tissue-Restricted Expression of Nrf2 and Its Target Genes in Zebrafish with Gene-Specific Variations in the Induction Profiles. <i>PLoS ONE</i> , 2011, 6, e26884.	1.1	55
23	Reconstitution of influenza virus RNA polymerase from three subunits expressed using recombinant baculovirus system. <i>Virus Research</i> , 1992, 22, 235-245.	1.1	50
24	Evaluation of the Toxicity and Antioxidant Activity of Redox Nanoparticles in Zebrafish ( <i>Danio</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.3	48
25	MafT, a new member of the small Maf protein family in zebrafish. <i>Biochemical and Biophysical Research Communications</i> , 2004, 320, 62-69.	1.0	47
26	Molecular basis for <i>Flk1</i> expression in hemato-cardiovascular progenitors in the mouse. <i>Development (Cambridge)</i> , 2011, 138, 5357-5368.	1.2	45
27	PRMT8 as a phospholipase regulates Purkinje cell dendritic arborization and motor coordination. <i>Science Advances</i> , 2015, 1, e1500615.	4.7	44
28	Isolation, Characterization, and Expression Analysis of Zebrafish Large Mafs. <i>Journal of Biochemistry</i> , 2001, 129, 139-146.	0.9	43
29	Nrf2 activation attenuates genetic endoplasmic reticulum stress induced by a mutation in the phosphomannomutase 2 gene in zebrafish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2758-2763.	3.3	43
30	Self-Association of Gata1 Enhances Transcriptional Activity In Vivo in Zebra Fish Embryos. <i>Molecular and Cellular Biology</i> , 2003, 23, 8295-8305.	1.1	41
31	Dominant Negative ATF1 Blocks Cyclic AMP-Induced Neurite Outgrowth in PC12D Cells. <i>Journal of Neurochemistry</i> , 2002, 70, 1029-1034.	2.1	38
32	Metalloprotease-Dependent Onset of Blood Circulation in Zebrafish. <i>Current Biology</i> , 2010, 20, 1110-1116.	1.8	38
33	Conduction Velocity in Various Regions of the Ureter. <i>Tohoku Journal of Experimental Medicine</i> , 1964, 83, 220-224.	0.5	37
34	LSD1/KDM1A promotes hematopoietic commitment of hemangioblasts through downregulation of <i>Etv2</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13922-13927.	3.3	37
35	ATF-CREB heterodimer is involved in constitutive expression of the housekeeping Na <sup>+</sup> -ATPase $\hat{\pm}$ subunit gene. <i>Nucleic Acids Research</i> , 1995, 23, 2848-2855.	6.5	34
36	Nrf2-dependent protection against acute sodium arsenite toxicity in zebrafish. <i>Toxicology and Applied Pharmacology</i> , 2016, 305, 136-142.	1.3	34

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37	Lung Cancer Cells Often Express High Levels of Protein Kinase C Activity. Japanese Journal of Cancer Research, 1989, 80, 204-208.	1.7	32
38	Expression of LIM-domain binding protein (ldb) genes during zebrafish embryogenesis. Mechanisms of Development, 1998, 71, 197-200.	1.7	32
39	Comparison of Two Reconstituted Systems for In Vitro Transcription and Replication of Influenza Virus1. Journal of Biochemistry, 1992, 111, 496-499.	0.9	31
40	Effects of Na and Ca on the generation and conduction of excitation in the ureter. American Journal of Physiology, 1965, 208, 715-719.	5.0	28
41	The keratin-related Ouroboros proteins function as immune antigens mediating tail regression in Xenopus metamorphosis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18309-18314.	3.3	27
42	Heme-mediated inhibition of <i>Bach1</i> regulates the liver specificity and transience of the <i>Nrf2</i> -dependent induction of zebrafish heme oxygenase 1. Genes To Cells, 2015, 20, 590-600.	0.5	27
43	GATA-1 Self-association Controls Erythroid Development in Vivo. Journal of Biological Chemistry, 2007, 282, 15862-15871.	1.6	26
44	Sensory systems and ionocytes are targets for silver nanoparticle effects in fish. Nanotoxicology, 2016, 10, 1276-1286.	1.6	26
45	Effect of sodium deficiency of the action potential of the smooth muscle of ureter. American Journal of Physiology, 1964, 206, 205-210.	5.0	25
46	Regulation of GATA1 Gene Expression. Journal of Biochemistry, 2007, 142, 1-10.	0.9	23
47	Phosphorylation of ATF-1 enhances its DNA binding and transcription of the Na,K-ATPase $\hat{A}1$ subunit gene promoter. Nucleic Acids Research, 1997, 25, 877-882.	6.5	22
48	Lateralization, maturation, and anteroposterior topography in the lateral habenula revealed by ZIF268/EGR1 immunoreactivity and labeling history of neuronal activity. Neuroscience Research, 2015, 95, 27-37.	1.0	18
49	Generation and characterization of <i>keap1a</i> - and <i>keap1b</i> -knockout zebrafish. Redox Biology, 2020, 36, 101667.	3.9	17
50	Molecular dissection of influenza virus RNA polymerase: PB1 subunit alone is able to catalyze RNA synthesis. Virus Genes, 1996, 12, 155-163.	0.7	16
51	Conservation of the Nrf2-Mediated Gene Regulation of Proteasome Subunits and Glucose Metabolism in Zebrafish. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-10.	1.9	16
52	Synergism of the ATF/CRE Site and GC Box in the Housekeeping Na,K-ATPase $\hat{A}1$ Subunit Gene Is Essential for Constitutive Expression. Biochemical and Biophysical Research Communications, 1997, 241, 169-174.	1.0	15
53	Pathogenic variants in the survival of motor neurons complex gene <i>GEMIN5</i> cause cerebellar atrophy. Clinical Genetics, 2021, 100, 722-730.	1.0	15
54	The Nervous Control of the Intracellular Action Potential of the Squilla Heart. Journal of Cellular and Comparative Physiology, 1962, 59, 55-60.	1.8	14

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55	Evaluation of Antioxidant Activity of Spice-Derived Phytochemicals Using Zebrafish. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1109.	1.8	14
56	Replication in vitro of the influenza virus genome: selective dissociation of RNA replicase from virus-infected cell ribonucleoprotein complexes. <i>Archives of Virology</i> , 1994, 136, 269-286.	0.9	13
57	Structure and chromosome mapping of the human SIX4 and murine <i>Six4</i> genes. <i>Cytogenetic and Genome Research</i> , 1999, 87, 108-112.	0.6	13
58	RELAXATION OF OYSTER HEART THROUGH THE ANODAL CURRENT PULSE. <i>The Japanese Journal of Physiology</i> , 1961, 11, 385-392.	0.9	12
59	Intracellular Action Potentials of the Guinea Pig Ureter. <i>Proceedings of the Japan Academy</i> , 1962, 38, 171-175.	0.4	10
60	Efficient transient rescue of hematopoietic mutant phenotypes in zebrafish using <i>Tol2</i> -mediated transgenesis. <i>Development Growth and Differentiation</i> , 2010, 52, 245-250.	0.6	9
61	The possible repositioning of an oral anti-arthritis drug, auranofin, for Nrf2-activating therapy: The demonstration of Nrf2-dependent anti-oxidative action using a zebrafish model. <i>Free Radical Biology and Medicine</i> , 2018, 115, 405-411.	1.3	9
62	Multicontrast investigation of in vivo wildtype zebrafish in three development stages using polarization-sensitive optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2022, 27, .	1.4	9
63	Reduced tyrosine phosphorylation and non-responsiveness to EGF-mediated cytotoxicity in EGF receptor-hyperproducing UCVA-1 cells. <i>Cellular Signalling</i> , 1990, 2, 245-252.	1.7	7
64	EFFECTS OF REPETITIVE STIMULI AND TEMPERATURE ON URETER ACTION POTENTIALS. <i>The Japanese Journal of Physiology</i> , 1963, 13, 421-430.	0.9	7
65	Splicing- and demethylase-independent functions of LSD1 in zebrafish primitive hematopoiesis. <i>Scientific Reports</i> , 2020, 10, 8521.	1.6	6
66	Harnessing the Antioxidant Power with ARE-Inducing Compounds. <i>Chemistry and Biology</i> , 2010, 17, 419-420.	6.2	4
67	Responses of cytokines and coagulation-fibrinolytic states to surgical stress following esophagectomy. <i>Hepato-Gastroenterology</i> , 2004, 51, 1376-8.	0.5	3
68	Oxidative stress inducers potentiate 2,3,7,8-tetrachlorodibenzo- <i>p</i> -dioxin-mediated pre-cardiac edema in larval zebrafish. <i>Journal of Veterinary Medical Science</i> , 2021, 83, 1050-1058.	0.3	2
69	Bcl-2 and Bax expression for hepatocellular apoptosis in a murine endotoxin shock model. <i>Hepato-Gastroenterology</i> , 2002, 49, 1602-6.	0.5	2
70	THE LATENT PERIOD OF RELAXATION DUE TO ANODAL CURRENT PULSE IN OYSTER MYOCARDIUM. <i>The Japanese Journal of Physiology</i> , 1962, 12, 242-250.	0.9	0
71	Soy-Derived Equol Induces Antioxidant Activity in Zebrafish in an Nrf2-Independent Manner. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5243.	1.8	0