

# Ken-Ichi Furukawa

## List of Publications by Year in descending order

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87  
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2,301  
citations

236612

25  
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243296

44  
g-index

90  
all docs

90  
docs citations

90  
times ranked

2378  
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of the Cardiac Ryanodine Receptor by Protein Kinase-Dependent Phosphorylation1. Journal of Biochemistry, 1991, 109, 163-170.	0.9	182
2	Genomewide Linkage and Linkage Disequilibrium Analyses Identify COL6A1, on Chromosome 21, as the Locus for Ossification of the Posterior Longitudinal Ligament of the Spine. American Journal of Human Genetics, 2003, 73, 812-822.	2.6	137
3	A genome-wide association study identifies susceptibility loci for ossification of the posterior longitudinal ligament of the spine. Nature Genetics, 2014, 46, 1012-1016.	9.4	115
4	Tumor Necrosis Factor- $\alpha$ Accelerates the Calcification of Human Aortic Valve Interstitial Cells Obtained from Patients with Calcific Aortic Valve Stenosis via the BMP2-Dlx5 Pathway. Journal of Pharmacology and Experimental Therapeutics, 2011, 337, 16-23.	1.3	102
5	Dual Regulation of the Skeletal Muscle Ryanodine Receptor by Triadin and Calsequestrin $\alpha$ . Biochemistry, 1998, 37, 12987-12993.	1.2	94
6	Cyclic GMP Regulation of the Plasma Membrane (Ca <sup>2+</sup> -Mg <sup>2+</sup> )ATPase in Vascular Smooth Muscle1. Journal of Biochemistry, 1987, 101, 287-290.	0.9	86
7	The Promyelotic Leukemia Zinc Finger Promotes Osteoblastic Differentiation of Human Mesenchymal Stem Cells as an Upstream Regulator of CBFA1. Journal of Biological Chemistry, 2005, 280, 8523-8530.	1.6	80
8	Pharmacological properties of $\alpha$ -mangostin, a novel histamine H1 receptor antagonist. European Journal of Pharmacology, 1996, 314, 351-356.	1.7	70
9	ATP-Induced Calcium Transient in Cultured Rat Aortic Smooth Muscle Cells1. Journal of Biochemistry, 1987, 102, 1499-1509.	0.9	59
10	Role of Prostaglandin I2 in the Gene Expression Induced by Mechanical Stress in Spinal Ligament Cells Derived from Patients with Ossification of the Posterior Longitudinal Ligament. Journal of Pharmacology and Experimental Therapeutics, 2003, 305, 818-824.	1.3	57
11	Vasodilative Effects of Urocortin II via Protein Kinase A and a Mitogen-activated Protein Kinase in Rat Thoracic Aorta. Journal of Cardiovascular Pharmacology, 2003, 42, 561-565.	0.8	57
12	Halenaquinone, a novel phosphatidylinositol 3-kinase inhibitor from a marine sponge, induces apoptosis in PC12 cells. European Journal of Pharmacology, 2001, 413, 37-45.	1.7	54
13	Histaminergic and Serotonergic Receptor Blocking Substances from the Medicinal Plant <i>Garcinia mangostana</i> . Planta Medica, 1996, 62, 471-472.	0.7	53
14	Possible Roles of CTGF/Hcs24 in the Initiation and Development of Ossification of the Posterior Longitudinal Ligament. Spine, 2002, 27, 1852-1857.	1.0	48
15	Novel Acyl $\alpha$ -Pyronoids, Dictyopyrone A, B, and C, from <i>Dictyostelium</i> Cellular Slime Molds. Journal of Organic Chemistry, 2000, 65, 985-989.	1.7	46
16	Current Topics in Pharmacological Research on Bone Metabolism: Molecular Basis of Ectopic Bone Formation Induced by Mechanical Stress. Journal of Pharmacological Sciences, 2006, 100, 201-204.	1.1	41
17	Tumour necrosis factor $\alpha$ -stimulated gene-6 inhibits osteoblastic differentiation of human mesenchymal stem cells induced by osteogenic differentiation medium and BMP-2. Biochemical Journal, 2006, 398, 595-603.	1.7	40
18	Mesenchymal stem cell isolation and characterization from human spinal ligaments. Biochemical and Biophysical Research Communications, 2012, 417, 1193-1199.	1.0	35

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19	Characterization of the (Ca <sup>2+</sup> -Mg <sup>2+</sup> )ATPase Purified by Calmodulin-Affinity Chromatography from Bovine Aortic Smooth Muscle. <i>Journal of Biochemistry</i> , 1984, 96, 1343-1350.	0.9	32
20	Matrix Gla protein negatively regulates calcification of human aortic valve interstitial cells isolated from calcified aortic valves. <i>Journal of Pharmacological Sciences</i> , 2018, 136, 257-265.	1.1	31
21	A new scorpion toxin (Bmk-PL) stimulates Ca <sup>2+</sup> -release channel activity of the skeletal-muscle ryanodine receptor by an indirect mechanism. <i>Biochemical Journal</i> , 1999, 339, 343-350.	1.7	30
22	Xestoquinone Activates Skeletal Muscle Actomyosin ATPase by Modification of the Specific Sulfhydryl Group in the Myosin Head Probably Distinct from Sulfhydryl Groups SH1 and SH2. <i>Biochemistry</i> , 1995, 34, 12570-12575.	1.2	27
23	Effect of Î <sup>3</sup> -mangostin through the inhibition of 5-hydroxytryptamine <sub>2A</sub> receptors in 5-fluoro-Î±-methyltryptamine-induced head-twitch responses of mice. <i>British Journal of Pharmacology</i> , 1998, 123, 855-862.	2.7	26
24	Immunohistochemical localization of mesenchymal stem cells in ossified human spinal ligaments. <i>Biochemical and Biophysical Research Communications</i> , 2013, 436, 698-704.	1.0	26
25	CD34-negative mesenchymal stem-like cells may act as the cellular origin of human aortic valve calcification. <i>Biochemical and Biophysical Research Communications</i> , 2013, 440, 780-785.	1.0	26
26	Osteogenic lineage commitment of mesenchymal stem cells from patients with ossification of the posterior longitudinal ligament. <i>Biochemical and Biophysical Research Communications</i> , 2014, 443, 1014-1020.	1.0	26
27	Contribution of Bone Morphogenetic Protein-2 to Aortic Valve Calcification in Aged Rat. <i>Journal of Pharmacological Sciences</i> , 2011, 115, 8-14.	1.1	25
28	Decreased DNA methylation in the promoter region of the WNT5A and GDNF genes may promote the osteogenicity of mesenchymal stem cells from patients with ossified spinal ligaments. <i>Journal of Pharmacological Sciences</i> , 2015, 127, 467-473.	1.1	25
29	Opposite Effects of Two Resveratrol (<i>trans</i>-3,5,4-â€²-Trihydroxystilbene) Tetramers, Vitisin A and Hopeaphenol, on Apoptosis of Myocytes Isolated from Adult Rat Heart. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 328, 90-98.	1.3	24
30	Genetic Differences in the Osteogenic Differentiation Potency According to the Classification of Ossification of the Posterior Longitudinal Ligament of the Cervical Spine. <i>Spine</i> , 2011, 36, 951-957.	1.0	24
31	Ca <sup>2+</sup> release induced by myotoxin <i>a</i>, a radioâ€labellable probe having novel Ca <sup>2+</sup> release properties in sarcoplasmic reticulum. <i>British Journal of Pharmacology</i> , 1994, 113, 233-239.	2.7	23
32	Calsequestrin is essential for the Ca <sup>2+</sup> release induced by myotoxin Î± in skeletal muscle sarcoplasmic reticulum. <i>Canadian Journal of Physiology and Pharmacology</i> , 1995, 73, 1181-1185.	0.7	23
33	High Osteogenic Potential of Adipose- and Muscle-derived Mesenchymal Stem Cells in Spinal-Ossification Model Mice. <i>Spine</i> , 2017, 42, E1342-E1349.	1.0	23
34	Protein Kinase-Dependent Phosphorylation of Cardiac Sarcolemmal Ca <sup>2+</sup> as Studied with a Specific Monoclonal Antibody. <i>Journal of Biochemistry</i> , 1990, 108, 222-229.	0.9	21
35	A Functional RNAi Screen for Runx2-Regulated Genes Associated With Ectopic Bone Formation in Human Spinal Ligaments. <i>Journal of Pharmacological Sciences</i> , 2008, 106, 404-414.	1.1	21
36	Pharmacological aspect of ectopic ossification in spinal ligament tissues. , 2008, 118, 352-358.		20

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37	The mechanism of acidic pH-induced contraction in aortae from SHR and WKY rats enhanced by increasing blood pressure. <i>British Journal of Pharmacology</i> , 1996, 118, 485-492.	2.7	19
38	Gene Expression and Functional Activity of Sodium/Calcium Exchanger Enhanced in Vascular Smooth Muscle Cells of Spontaneously Hypertensive Rats. <i>Journal of Cardiovascular Pharmacology</i> , 2004, 43, 629-637.	0.8	19
39	Modulation of Plasma Membrane Ca <sup>2+</sup> Pump by Membrane Potential in Cultured Vascular Smooth Muscle Cells <sup>1</sup> . <i>Journal of Biochemistry</i> , 1989, 106, 1068-1073.	0.9	18
40	Virol A, a toxic trans-polyacetylenic alcohol of <i>Cicuta virosa</i> , selectively inhibits the GABA-induced Cl <sup>-</sup> current in acutely dissociated rat hippocampal CA1 neurons. <i>Brain Research</i> , 2001, 889, 174-180.	1.1	18
41	Role of Corticotropin-Releasing Factor Receptor Type 2 <sup>1</sup> in Urocortin-Induced Vasodilation of Rat Aortas. <i>Journal of Pharmacological Sciences</i> , 2004, 96, 170-176.	1.1	18
42	Post injury changes in the properties of mesenchymal stem cells derived from human anterior cruciate ligaments. <i>International Orthopaedics</i> , 2012, 36, 1515-1522.	0.9	18
43	1-Methyl-2-undecyl-4(1H)-quinolone, a derivative of quinolone alkaloid evocarpine, attenuates high phosphate-induced calcification of human aortic valve interstitial cells by inhibiting phosphate cotransporter PiT-1. <i>Journal of Pharmacological Sciences</i> , 2016, 131, 51-57.	1.1	18
44	A new scorpion toxin (BmK-PL) stimulates Ca <sup>2+</sup> -release channel activity of the skeletal-muscle ryanodine receptor by an indirect mechanism. <i>Biochemical Journal</i> , 1999, 339, 343.	1.7	17
45	Antisense-Inhibition of Plasma Membrane Ca <sup>2+</sup> Pump Induces Apoptosis in Vascular Smooth Muscle Cells. <i>The Japanese Journal of Pharmacology</i> , 2002, 90, 164-172.	1.2	17
46	Cytosolic Ca <sup>2+</sup> -Induced Apoptosis in Rat Cardiomyocytes via Mitochondrial NO-cGMP-Protein Kinase G Pathway. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2013, 344, 77-84.	1.3	17
47	Possible Role of Extracellular Nucleotides in Ectopic Ossification of Human Spinal Ligaments. <i>Journal of Pharmacological Sciences</i> , 2008, 106, 152-161.	1.1	16
48	Comparison of Cardiovascular Parameters Between Patients With Ossification of Posterior Longitudinal Ligament and Patients With Cervical Spondylotic Myelopathy. <i>Journal of Spinal Disorders and Techniques</i> , 2009, 22, 361-366.	1.8	16
49	Cyclic AMP Enhances Inositol Trisphosphate-Induced Mobilization of Intracellular Ca <sup>2+</sup> in Cultured Aortic Smooth Muscle Cells <sup>1</sup> . <i>Journal of Biochemistry</i> , 1988, 104, 795-800.	0.9	15
50	Calsequestrin is a major binding protein of myotoxin $\hat{1}$ and an endogenous Ca <sup>2+</sup> releaser in sarcoplasmic reticulum. <i>European Journal of Pharmacology</i> , 1994, 268, R1-R2.	2.7	15
51	Structure-activity relationship of bromoedistomin D, a powerful Ca <sup>2+</sup> releaser in skeletal muscle sarcoplasmic reticulum. <i>European Journal of Pharmacology</i> , 1995, 288, 285-293.	2.7	15
52	Recent Advances in Research on Human Aortic Valve Calcification. <i>Journal of Pharmacological Sciences</i> , 2014, 124, 129-137.	1.1	15
53	Generation of Antitumor Active Neutral Medium-Sized $\hat{1}$ -Glycan in Apple Vinegar Fermentation. <i>Bioscience, Biotechnology and Biochemistry</i> , 2007, 71, 2124-2129.	0.6	14
54	8-Methyltryptanthrin-Induced Differentiation of P19CL6 Embryonal Carcinoma Cells into Spontaneously Beating Cardiomyocyte-like Cells. <i>Journal of Natural Products</i> , 2014, 77, 1413-1419.	1.5	14

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55	Cardiac mitochondrial cGMP stimulates cytochrome c release. <i>Clinical Science</i> , 2007, 112, 113-121.	1.8	13
56	Calcification of Aortic Smooth Muscle Cells Isolated From Spontaneously Hypertensive Rats. <i>Journal of Pharmacological Sciences</i> , 2008, 106, 280-286.	1.1	13
57	Endothelium-dependent vasodilatory effect of vitisin C, a novel plant oligostilbene from <i>Vitis</i> plants (Vitaceae), in rabbit aorta. <i>Clinical Science</i> , 2003, 105, 73-79.	1.8	12
58	P2Y1 Transient Overexpression Induced Mineralization in Spinal Ligament Cells Derived from Patients with Ossification of the Posterior Longitudinal Ligament of the Cervical Spine. <i>Calcified Tissue International</i> , 2011, 88, 263-271.	1.5	11
59	Suppression of osteogenic differentiation in mesenchymal stem cells from patients with ossification of the posterior longitudinal ligament by a histamine-2-receptor antagonist. <i>European Journal of Pharmacology</i> , 2017, 810, 156-162.	1.7	11
60	4,6-Dibromo-3-hydroxycarbazole (an analogue of caffeine-like Ca <sup>2+</sup> releaser), a novel type of inhibitor of Ca <sup>2+</sup> -induced Ca <sup>2+</sup> release in skeletal muscle sarcoplasmic reticulum. <i>British Journal of Pharmacology</i> , 1995, 114, 941-948.	2.7	10
61	Stimulated Tyrosine Phosphorylation of Phosphatidylinositol 3-Kinase Causes Acidic pH-Induced Contraction in Spontaneously Hypertensive Rat Aorta. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2002, 303, 1255-1264.	1.3	10
62	Menaquinone-4 Accelerates Calcification of Human Aortic Valve Interstitial Cells in High-Phosphate Medium through PXR. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2020, 372, 277-284.	1.3	10
63	Warfarin calcifies human aortic valve interstitial cells at high-phosphate conditions via pregnane X receptor. <i>Journal of Bone and Mineral Metabolism</i> , 2019, 37, 944-956.	1.3	9
64	[3H]9-Methyl-7-bromoeudistomin D, a caffeine-like powerful Ca <sup>2+</sup> releaser, binds to caffeine-binding sites distinct from the ryanodine receptors in brain microsomes. <i>FEBS Letters</i> , 1995, 373, 250-254.	1.3	8
65	Identification of a novel COL2A1 mutation (c.1744G>A) in a Japanese family: a case report. <i>Journal of Medical Case Reports</i> , 2014, 8, 276.	0.4	8
66	The Amount of Nucleotide Binding and the P1-Size of Myosin Adenosinetriphosphatase: Evidence for the Nonidentical Two-Headed Structure of Myosin1. <i>Journal of Biochemistry</i> , 1980, 88, 1629-1641.	0.9	7
67	Effect of Tryptic Digestion of Myosin Subfragment-1 on Its Binding to F-Actin1. <i>Journal of Biochemistry</i> , 1984, 95, 1343-1348.	0.9	7
68	A Fluorometric Assay for Cyclic Guanosine 3',5'-Monophosphate Incorporating a Sep-Pak Cartridge and Enzymatic Cycling. <i>Analytical Biochemistry</i> , 1999, 272, 243-249.	1.1	7
69	Facilitation of Chemotaxis Activity of Mesenchymal Stem Cells via Stromal Cell-Derived Factor-1 and Its Receptor May Promote Ectopic Ossification of Human Spinal Ligaments. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 369, 1-8.	1.3	7
70	Concomitant Increase in Cytosolic Free Calcium and Phosphorylation of Myosin Light Chain by Vasoconstrictive Hormones in Cultured Rat Vascular Smooth Muscle Cells.. <i>Endocrinologia Japonica</i> , 1988, 35, 577-584.	0.5	5
71	Modulation of actomyosin ATPase by thiotetromycin is mediated through conformational change of actin. <i>European Journal of Pharmacology</i> , 1999, 383, 381-386.	1.7	5
72	Inhibition by antisense oligonucleotides of plasma membrane Ca <sup>2+</sup> ATPase in vascular endothelial cells. <i>European Journal of Pharmacology</i> , 2000, 387, 273-277.	1.7	5

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73	Nifedipine enhances cGMP production through the activation of soluble guanylyl cyclase in rat ventricular papillary muscle. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 57, 511-514.	1.2	5
74	Comparison of initial versus delayed introduction of a treat-to-target strategy in patients with recent-onset rheumatoid arthritis: results of the T-4 3-year study. <i>Annals of the Rheumatic Diseases</i> , 2014, 73, 470-472.	0.5	4
75	The vaso-contractile action of zooxanthellatoxin-B from a marine dinoflagellate is mediated via Ca <sup>2+</sup> influx in the rabbit aorta. <i>Canadian Journal of Physiology and Pharmacology</i> , 2001, 79, 1030-1035.	0.7	3
76	Changes in pH Increase Perfusion Pressure of Coronary Arteries in the Rat. <i>Journal of Pharmacological Sciences</i> , 2005, 97, 400-407.	1.1	3
77	Assessment of the Effects of L- and N-Type Ca <sup>2+</sup> Channel Blocking Drugs Using Canine Blood-Perfused Papillary Muscle Preparations. <i>Tohoku Journal of Experimental Medicine</i> , 2007, 212, 415-422.	0.5	3
78	Inhibitory effects of glucocorticoids on urocortin-mediated increases in interleukin-6 gene expression in rat aortic smooth muscle cells. <i>Peptides</i> , 2007, 28, 1059-1067.	1.2	3
79	Inhibitory effects of glucocorticoids on urocortin-mediated increases in interleukin-6 gene expression in rat aortic smooth muscle cells. <i>Peptides</i> , 2007, 28, 1059-1067.	1.2	3
80	Elucidation of the inhibitory effect of (+)-hopeaphenol on polyinosinicâ€“polycytidylic acid-induced innate immunity activation in human cerebral microvascular endothelial cells. <i>Journal of Pharmacological Sciences</i> , 2022, 149, 147-157.	1.1	3
81	Effect of teriparatide on ligamentum flavum mesenchymal stem cells isolated from patients with ossification of the posterior longitudinal ligament. <i>Journal of Pharmacological Sciences</i> , 2021, 145, 23-28.	1.1	2
82	The vaso-contractile action of zooxanthellatoxin-B from a marine dinoflagellate is mediated via Ca <sup>2+</sup> influx in the rabbit aorta. <i>Canadian Journal of Physiology and Pharmacology</i> , 2001, 79, 1030-1035.	0.7	2
83	The Conventional and Saturation Transfer Electron Paramagnetic Resonance of Spin-Labeled Myosin Subfragment-1 in the Presence of F-Actin and Nucleotides <sup>1</sup> . <i>Journal of Biochemistry</i> , 1982, 92, 1219-1225.	0.9	1
84	Human aortic valve interstitial cells obtained from patients with aortic valve stenosis are vascular endothelial growth factor receptor 2 positive and contribute to ectopic calcification. <i>Journal of Pharmacological Sciences</i> , 2021, 145, 213-221.	1.1	1
85	Coagulation, Vascular Morphology, and Vasculogenesis in Spinal Ligament Ossification Model Mice. <i>Spine</i> , 2021, 46, E802-E809.	1.0	1
86	Regulation of Plasma Membrane Ca-Pump ATPase of Vascular Smooth Muscle by cGMP. , 1988, , 427-431.		0
87	Ectopic Ossification of Human Spinal Ligaments Caused byâ€“Mesenchymal Stem Cell Abnormalities. , 2020, , 47-54.		0