

Kishio Furuya

List of Publications by Year in descending order

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71
papers

1,918
citations

218592

26
h-index

265120

42
g-index

74
all docs

74
docs citations

74
times ranked

2050
citing authors

#	ARTICLE	IF	CITATIONS
1	Two different molecular mechanisms underlying progesterone neuroprotection against ischemic brain damage. <i>Neuropharmacology</i> , 2008, 55, 127-138.	2.0	128
2	Visualization of flow-induced ATP release and triggering of Ca ²⁺ waves at caveolae in vascular endothelial cells. <i>Journal of Cell Science</i> , 2011, 124, 3477-3483.	1.2	116
3	Effects of cations on dipalmitoyl phosphatidylcholine/cholesterol/water systems. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1975, 413, 24-32.	1.4	113
4	Hemolysis is a primary ATP-release mechanism in human erythrocytes. <i>Blood</i> , 2014, 124, 2150-2157.	0.6	91
5	Matrix stiffness regulates migration of human lung fibroblasts. <i>Physiological Reports</i> , 2017, 5, e13281.	0.7	90
6	The increase in the intracellular Ca ²⁺ concentration induced by mechanical stimulation is propagated via release of pyrophosphorylated nucleotides in mammary epithelial cells. <i>Pflugers Archiv European Journal of Physiology</i> , 1994, 427, 533-542.	1.3	88
7	Characteristics of subepithelial fibroblasts as a mechano-sensor in the intestine: cell-shape-dependent ATP release and P2Y1 signaling. <i>Journal of Cell Science</i> , 2005, 118, 3289-3304.	1.2	71
8	Mechanosensitive ATP release from hemichannels and Ca ²⁺ influx through TRPC6 accelerate wound closure in keratinocytes. <i>Journal of Cell Science</i> , 2014, 127, 4159-71.	1.2	63
9	Spontaneous calcium oscillations and mechanically and chemically induced calcium responses in mammary epithelial cells. <i>Pflugers Archiv European Journal of Physiology</i> , 1993, 422, 295-304.	1.3	61
10	Blockade of synaptic transmission in the squid giant synapse by a spider toxin (JSTX). <i>Brain Research</i> , 1983, 278, 346-349.	1.1	57
11	Morphological plasticity and rearrangement of cytoskeletons in pituicytes cultured from adult rat neurohypophysis. <i>Neuroscience Research</i> , 1999, 33, 299-306.	1.0	54
12	Subepithelial Fibroblasts in Intestinal Villi: Roles in Intercellular Communication. <i>International Review of Cytology</i> , 2007, 264, 165-223.	6.2	43
13	Real-Time Imaging of ATP Release Induced by Mechanical Stretch in Human Airway Smooth Muscle Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014, 51, 772-782.	1.4	42
14	Imaging and characterization of stretch-induced ATP release from alveolar A549 cells. <i>Journal of Physiology</i> , 2013, 591, 1195-1215.	1.3	41
15	Increased astrocytic ATP release results in enhanced excitability of the hippocampus. <i>Glia</i> , 2013, 61, 210-224.	2.5	40
16	Phase Transitions in Bilayer Membranes of Dioleoyl-Phosphatidylcholine/Dipalmitoyl-Phosphatidylcholine. <i>Journal of the Physical Society of Japan</i> , 1979, 46, 611-616.	0.7	39
17	PREGS Induces LTP in the Hippocampal Dentate Gyrus of Adult Rats Via the Tyrosine Phosphorylation International Cooperative Research CREB Signaling. <i>Journal of Neurophysiology</i> , 2007, 98, 1538-1548.	0.9	39
18	Non-GABAergic effects of midazolam, diazepam and flumazenil on voltage-dependent ion currents in NG108-15 cells. <i>NeuroReport</i> , 1997, 8, 2635-2638.	0.6	33

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19	Comparison of the expression of two immediate early gene proteins, FosB and Fos in the rat preoptic area, hypothalamus and brainstem during pregnancy, parturition and lactation. <i>Neuroscience Research</i> , 1998, 32, 333-341.	1.0	33
20	Chronic DHEAS administration facilitates hippocampal long-term potentiation via an amplification of Src-dependent NMDA receptor signaling. <i>Neuropharmacology</i> , 2006, 51, 659-670.	2.0	33
21	Ca ²⁺ influx and ATP release mediated by mechanical stretch in human lung fibroblasts. <i>Biochemical and Biophysical Research Communications</i> , 2014, 453, 101-105.	1.0	33
22	Synergistic effects of ATP on oxytocin-induced intracellular Ca ²⁺ response in mouse mammary myoepithelial cells. <i>Pflugers Archiv European Journal of Physiology</i> , 2001, 442, 57-63.	1.3	32
23	Single calcium-activated potassium channel in cultured mammary epithelial cells. <i>Pflugers Archiv European Journal of Physiology</i> , 1989, 414, 118-124.	1.3	29
24	Real-time luminescence imaging of cellular ATP release. <i>Methods</i> , 2014, 66, 330-344.	1.9	29
25	Intracellular calcium responses and shape conversions induced by endothelin in cultured subepithelial fibroblasts of rat duodenal villi. <i>Pflugers Archiv European Journal of Physiology</i> , 1994, 428, 97-104.	1.3	28
26	Hyperforin/HP- β -Cyclodextrin Enhances Mechanosensitive Ca ²⁺ Signaling in HaCaT Keratinocytes and in Atopic Skin Ex Vivo Which Accelerates Wound Healing. <i>BioMed Research International</i> , 2017, 2017, 1-9.	0.9	28
27	Developmental time courses of Na and Ca spikes in neuroblastoma Å— glioma hybrid cells. <i>Developmental Brain Research</i> , 1983, 11, 229-234.	2.1	26
28	Real-time imaging of intracellular calcium change with simultaneous single channel recording in mammary epithelial cells. <i>Brain Research Bulletin</i> , 1990, 25, 779-781.	1.4	25
29	Oscillating activity of a calcium-activated K ⁺ channel in normal and cancerous mammary cells in culture. <i>Journal of Membrane Biology</i> , 1991, 119, 133-139.	1.0	25
30	Modulatory metaplasticity induced by pregnenolone sulfate in the rat hippocampus: A leftward shift in LTP/LTD frequency curve. <i>Hippocampus</i> , 2010, 20, 499-512.	0.9	25
31	Mechanically induced electrical responses in murine mammary epithelial cells in primary culture. <i>FEBS Letters</i> , 1987, 223, 82-86.	1.3	22
32	Characteristics of cultured subepithelial fibroblasts of rat duodenal villi. <i>Anatomy and Embryology</i> , 1993, 187, 529-538.	1.5	21
33	Characteristics of cultured subepithelial fibroblasts in the rat small intestine. II. Localization and functional analysis of endothelin receptors and cell-shape-independent gap junction permeability. <i>Cell and Tissue Research</i> , 2005, 319, 103-119.	1.5	21
34	Cyclic stretch enhances reorientation and differentiation of 3-D culture model of human airway smooth muscle. <i>Biochemistry and Biophysics Reports</i> , 2018, 16, 32-38.	0.7	20
35	ATP-induced calcium oscillations and change of P2Y subtypes with culture conditions in HeLa cells. <i>Cell Biochemistry and Function</i> , 2003, 21, 61-68.	1.4	19
36	Ultrastructural changes in differentiating neuroblastoma Å— glioma hybrid cells. <i>Tissue and Cell</i> , 1983, 15, 903-919.	1.0	17

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37	Evidence for l-glutamate as the neurotransmitter of the squid giant synapse. <i>Neuroscience Research</i> , 1985, 2, 297-307.	1.0	17
38	Real-time imaging of inflation-induced ATP release in the ex vivo rat lung. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 311, L956-L969.	1.3	16
39	Cyclic Amp-Mediated Inhibition of Noradrenaline-Induced Contraction and Ca ²⁺ Influx in Guinea-Pig vas Deferens. <i>Experimental Physiology</i> , 2000, 85, 387-398.	0.9	14
40	Roles of Substance P and ATP in the Subepithelial Fibroblasts of Rat Intestinal Villi. <i>International Review of Cell and Molecular Biology</i> , 2013, 304, 133-189.	1.6	14
41	Localization of [125I]Endothelin-1 in Rat Tissues Observed by Electron-Microscopic Radioautography. <i>Journal of Cardiovascular Pharmacology</i> , 1991, 17, S452-454.	0.8	12
42	Release of arachidonic acid via Ca ²⁺ increase stimulated by pyrophosphonucleotides and bradykinin in mammary tumour cells. <i>Cell Biochemistry and Function</i> , 1995, 13, 279-286.	1.4	12
43	Expression Cloning and Signal Transduction Pathway of P2U Receptor in Mammary Tumor Cells. <i>NeuroSignals</i> , 1996, 5, 9-21.	0.5	12
44	EGF enhances Ca ²⁺ mobilization and capacitative Ca ²⁺ entry in mouse mammary epithelial cells. <i>Cell Biochemistry and Function</i> , 2000, 18, 215-225.	1.4	12
45	Intracellular Ca ²⁺ responses to nucleotides, peptides, amines, amino acids and prostaglandins in cultured pituicytes from adult rat neurohypophysis. <i>Neuroscience Letters</i> , 1999, 266, 185-188.	1.0	10
46	Response: Hemolysis is a primary and physiologically relevant ATP release mechanism in human erythrocytes. <i>Blood</i> , 2015, 125, 1845-1846.	0.6	10
47	Lytic Release of Cellular ATP: Physiological Relevance and Therapeutic Applications. <i>Life</i> , 2021, 11, 700.	1.1	10
48	A dual system of intercellular calcium signaling in glial nets associated with lanceolate sensory endings in rat vibrissae. <i>Journal of Comparative Neurology</i> , 2008, 510, 68-78.	0.9	9
49	Neurosteroid dehydroepiandrosterone enhances activity and trafficking of astrocytic GLT ₁ via <i>l</i> 1 <i>l</i> 1 receptor-mediated PKC activation in the hippocampal dentate gyrus of rats. <i>Glia</i> , 2017, 65, 1491-1503.	2.5	9
50	A monoclonal antibody to astrocytes, subepithelial fibroblasts of small intestinal villi and interstitial cells of the myenteric plexus layer. <i>Anatomy and Embryology</i> , 1997, 195, 113-126.	1.5	8
51	Mechanosensitive ATP release in the lungs: New insights from real-time luminescence imaging studies. <i>Current Topics in Membranes</i> , 2019, 83, 45-76.	0.5	8
52	Cellular ATP release in the lung and airway. <i>AIMS Biophysics</i> , 2016, 3, 571-584.	0.3	8
53	Proliferation-associated increase in sensitivity of mammary epithelial cells to inositol-1,4,5-trisphosphate. <i>Cell Biochemistry and Function</i> , 1993, 11, 55-62.	1.4	7
54	Temperature dependency of calcium responses in mammary tumour cells. , 1997, 15, 113-117.		7

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55	Localization of NK1 receptors and roles of substance-P in subepithelial fibroblasts of rat intestinal villi. <i>Cell and Tissue Research</i> , 2010, 342, 243-259.	1.5	6
56	Real-time imaging of mechanically and chemically induced ATP release in human lung fibroblasts. <i>Respiratory Physiology and Neurobiology</i> , 2017, 242, 96-101.	0.7	6
57	Sphingosine-1-Phosphate Induces ATP Release via Volume-Regulated Anion Channels in Breast Cell Lines. <i>Life</i> , 2021, 11, 851.	1.1	5
58	Cyclic AMP-mediated inhibition of noradrenaline-induced contraction and Ca ²⁺ influx in guinea-pig vas deferens. <i>Experimental Physiology</i> , 2000, 85, 387-398.	0.9	4
59	Intracellular binding of cationized ferritin prolongs the time course of sodium channel inactivation in squid giant axons. <i>Journal of Membrane Biology</i> , 1986, 89, 75-83.	1.0	3
60	cAMP-dependent potentiation of the Ca ²⁺ -activated release of the anionic fluorescent dye, calcein, from rat parotid acinar cells. <i>European Journal of Pharmacology</i> , 2000, 388, 227-234.	1.7	3
61	Reactive Blue 2 Induces Calcium Oscillations in HeLa Cells.. <i>The Japanese Journal of Physiology</i> , 2001, 51, 389-393.	0.9	3
62	A quantitative analysis of intramembranous particles during the development of neuroblastoma Å—glioma hybrid cells. <i>Developmental Brain Research</i> , 1983, 11, 235-244.	2.1	2
63	Binding of cationized ferritin on the cytoplasmic surface of the axolemma and its effect on the membrane excitation.. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 1983, 59, 140-143.	1.6	2
64	Role of Skin Stretch on Local Vascular Permeability in Murine and Cell Culture Models. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2022, 10, e4084.	0.3	2
65	Initiation of the spike by intracellularly perfused calcium in squid giant axons.. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 1981, 57, 54-58.	1.6	1
66	Neurite-outgrowth and calcium channel. <i>Neuroscience Research Supplement: the Official Journal of the Japan Neuroscience Society</i> , 1992, 17, 49.	0.0	0
67	Developmental changes in capacitative Ca ²⁺ entry in mouse mammary epithelial cells. <i>Cell Biochemistry and Function</i> , 2000, 18, 147-150.	1.4	0
68	3P205 Signaling roles of substance-P in intestinal villi via subepithelial fibroblasts network(Cell Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	0.0	0
69	Mechanotransduction in A549 Alveolar Cells via Cell Stretch-Induced ATP Release. <i>Biophysical Journal</i> , 2012, 102, 122a.	0.2	0
70	The effects of internal Ca ²⁺ and Mg ²⁺ on ion channels in the squid giant axon. , 1995, , 153-160.		0
71	The venom of scorpion<i> B. martensi</i> selectively inhibits transient outward K<sup>+</sup> currents in neonatal rat ventricular cells and K<sub>v</sub><sup>+</sup> channel currents in NG108-15 cells . <i>Biomedical Research</i> . 1997. 18. 383-388.	0.3	0