

Katsuhiko Mikoshiba

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.

82

papers

5,504

citations

35

h-index

74

g-index

86

ext. papers

5,915

ext. citations

8.1

avg, IF

5.33

L-index

#	Paper	IF	Citations
82	Scrambler and yotari disrupt the disabled gene and produce a reeler-like phenotype in mice. <i>Nature</i> , 1997 , 389, 730-3	50.4	563
81	Requirement of the inositol trisphosphate receptor for activation of store-operated Ca ²⁺ channels. <i>Science</i> , 2000 , 287, 1647-51	33.3	523
80	Alterations of sarcoplasmic reticulum proteins in failing human dilated cardiomyopathy. <i>Circulation</i> , 1995 , 92, 778-84	16.7	335
79	IP3 receptor/Ca ²⁺ channel: from discovery to new signaling concepts. <i>Journal of Neurochemistry</i> , 2007 , 102, 1426-1446	6	313
78	Structure of the inositol 1,4,5-trisphosphate receptor binding core in complex with its ligand. <i>Nature</i> , 2002 , 420, 696-700	50.4	280
77	IP3 receptor types 2 and 3 mediate exocrine secretion underlying energy metabolism. <i>Science</i> , 2005 , 309, 2232-4	33.3	254
76	Activity-dependent tuning of inhibitory neurotransmission based on GABAAR diffusion dynamics. <i>Neuron</i> , 2009 , 62, 670-82	13.9	213
75	A novel zinc finger protein, zic, is involved in neurogenesis, especially in the cell lineage of cerebellar granule cells. <i>Journal of Neurochemistry</i> , 1994 , 63, 1880-90	6	185
74	IRBIT, a novel inositol 1,4,5-trisphosphate (IP3) receptor-binding protein, is released from the IP3 receptor upon IP3 binding to the receptor. <i>Journal of Biological Chemistry</i> , 2003 , 278, 10602-12	5.4	154
73	Inositol 1, 4, 5-trisphosphate receptor-mediated Ca ²⁺ signaling in the brain. <i>Journal of Neurochemistry</i> , 1995 , 64, 953-60	6	148
72	IRBIT suppresses IP3 receptor activity by competing with IP3 for the common binding site on the IP3 receptor. <i>Molecular Cell</i> , 2006 , 22, 795-806	17.6	139
71	IRBIT, an inositol 1,4,5-trisphosphate receptor-binding protein, specifically binds to and activates pancreas-type Na ⁺ /HCO ₃ ⁻ cotransporter 1 (pNBC1). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 9542-7	11.5	132
70	Distinct role of the N-terminal tail of the Na,K-ATPase catalytic subunit as a signal transducer. <i>Journal of Biological Chemistry</i> , 2006 , 281, 21954-21962	5.4	98
69	IRBIT coordinates epithelial fluid and HCO ₃ ⁻ secretion by stimulating the transporters pNBC1 and CFTR in the murine pancreatic duct. <i>Journal of Clinical Investigation</i> , 2009 , 119, 193-202	15.9	97
68	The function of inositol high polyphosphate binding proteins. <i>BioEssays</i> , 1997 , 19, 593-603	4.1	96
67	Distribution of a reeler gene-related antigen in the developing cerebellum: an immunohistochemical study with an allogeneic antibody CR-50 on normal and reeler mice. <i>Journal of Comparative Neurology</i> , 1996 , 372, 215-28	3.4	84
66	Kinesin dependent, rapid, bi-directional transport of ER sub-compartment in dendrites of hippocampal neurons. <i>Journal of Cell Science</i> , 2004 , 117, 163-75	5.3	82

65	Monoclonal antibodies distinctively recognizing the subtypes of inositol 1,4,5-trisphosphate receptor: application to the studies on inflammatory cells. <i>FEBS Letters</i> , 1994 , 354, 149-54	3.8	81
64	Antibody to the inositol trisphosphate receptor blocks thimerosal-enhanced Ca ²⁺ -induced Ca ²⁺ release and Ca ²⁺ oscillations in hamster eggs. <i>FEBS Letters</i> , 1992 , 309, 180-4	3.8	77
63	Adenophostin-mediated quantal Ca ²⁺ release in the purified and reconstituted inositol 1,4,5-trisphosphate receptor type 1. <i>FEBS Letters</i> , 1995 , 368, 248-52	3.8	71
62	Irbt mediates synergy between ca ²⁺ and cAMP signaling pathways during epithelial transport in mice. <i>Gastroenterology</i> , 2013 , 145, 232-241	13.3	69
61	A potential approach for gene therapy targeting hepatoma using a liver-specific promoter on a retroviral vector. <i>Cell Structure and Function</i> , 1991 , 16, 503-10	2.2	64
60	Synaptotagmin IV is present at the Golgi and distal parts of neurites. <i>Journal of Neurochemistry</i> , 2000 , 74, 518-26	6	61
59	Bidirectional Control of Synaptic GABAAR Clustering by Glutamate and Calcium. <i>Cell Reports</i> , 2015 , 13, 2768-80	10.6	58
58	Subtypes of inositol 1,4,5-trisphosphate receptor in human hematopoietic cell lines: dynamic aspects of their cell-type specific expression. <i>FEBS Letters</i> , 1994 , 349, 191-6	3.8	53
57	The IP3 receptor/Ca ²⁺ channel and its cellular function. <i>Biochemical Society Symposia</i> , 2007 , 9-22		53
56	Intracellular targeting and homotetramer formation of a truncated inositol 1,4,5-trisphosphate receptor-green fluorescent protein chimera in <i>Xenopus laevis</i> oocytes: evidence for the involvement of the transmembrane spanning domain in endoplasmic reticulum targeting and homotetramer formation. <i>Biochimica et Biophysica Acta</i> , 1997 , 1207 (Pt 1), 873-80	3.8	52
55	Adenophostin, a potent agonist of the inositol 1,4,5-trisphosphate receptor, is useful for fertilization of mouse oocytes injected with round spermatids leading to normal offspring. <i>Biology of Reproduction</i> , 1998 , 58, 867-73	3.9	49
54	Microvesicle-mediated exocytosis of glutamate is a novel paracrine-like chemical transduction mechanism and inhibits melatonin secretion in rat pinealocytes. <i>Journal of Pineal Research</i> , 1996 , 21, 175-91	10.4	45
53	IRBIT controls apoptosis by interacting with the Bcl-2 homolog, Bcl2l10, and by promoting ER-mitochondria contact. <i>ELife</i> , 2016 , 5,	8.9	44
52	Characterization of KIAA1427 protein as an atypical synaptotagmin (Syt XIII). <i>Biochemical Journal</i> , 2001 , 354, 249-257	3.8	42
51	Gephyrin-independent GABA(A)R mobility and clustering during plasticity. <i>PLoS ONE</i> , 2012 , 7, e36148	3.7	40
50	Regulation by bivalent cations of phospholipid binding to the C2A domain of synaptotagmin III. <i>Biochemical Journal</i> , 1997 , 323 (Pt 2), 421-5	3.8	39
49	80K-H interacts with inositol 1,4,5-trisphosphate (IP3) receptors and regulates IP3-induced calcium release activity. <i>Journal of Biological Chemistry</i> , 2009 , 284, 372-380	5.4	37
48	Calmodulin inhibits inositol 1,4,5-trisphosphate-induced calcium release through the purified and reconstituted inositol 1,4,5-trisphosphate receptor type 1. <i>FEBS Letters</i> , 1999 , 456, 322-6	3.8	36

47	IRBIT: a regulator of ion channels and ion transporters. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014 , 1843, 2195-204	4.9	35
46	Inositol 1,4,5-trisphosphate IP(3) receptors and their role in neuronal cell function. <i>Journal of Neurochemistry</i> , 2006 , 97, 1627-33	6	35
45	Novel isoforms of mouse myelin basic protein predominantly expressed in embryonic stage. <i>Journal of Neurochemistry</i> , 1993 , 60, 1554-63	6	34
44	Developmental neurotoxicity of phenytoin on granule cells and Purkinje cells in mouse cerebellum. <i>Journal of Neurochemistry</i> , 1999 , 72, 1497-506	6	33
43	Remodeling of Ca signaling in cancer: Regulation of inositol 1,4,5-trisphosphate receptors through oncogenes and tumor suppressors. <i>Advances in Biological Regulation</i> , 2018 , 68, 64-76	6.2	32
42	G-protein-coupled receptor kinase-interacting proteins inhibit apoptosis by inositol 1,4,5-triphosphate receptor-mediated Ca ²⁺ signal regulation. <i>Journal of Biological Chemistry</i> , 2009 , 284, 29158-69	5.4	32
41	A unique spacer domain of synaptotagmin IV is essential for Golgi localization. <i>Journal of Neurochemistry</i> , 2001 , 77, 730-40	6	30
40	Inositol 1,4,5-trisphosphate receptor associated with focal contact cytoskeletal proteins. <i>FEBS Letters</i> , 2000 , 466, 29-34	3.8	30
39	Functional expression of the type 1 inositol 1,4,5-trisphosphate receptor promoter-lacZ fusion genes in transgenic mice. <i>Journal of Neurochemistry</i> , 1996 , 66, 1793-801	6	29
38	IRBIT regulates CaMKII β activity and contributes to catecholamine homeostasis through tyrosine hydroxylase phosphorylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 5515-20	11.5	28
37	Movement of endoplasmic reticulum in the living axon is distinct from other membranous vesicles in its rate, form, and sensitivity to microtubule inhibitors. <i>Journal of Neuroscience Research</i> , 2001 , 65, 236-46	4.4	28
36	Molecular cloning and expression of a cDNA encoding an olfactory-specific mouse phenol sulphotransferase. <i>Biochemical Journal</i> , 1998 , 331 (Pt 3), 953-8	3.8	28
35	Development of Purkinje cells in humans: an immunohistochemical study using a monoclonal antibody against the inositol 1,4,5-triphosphate type 1 receptor (IP3R1). <i>Acta Neuropathologica</i> , 1999 , 98, 226-32	14.3	28
34	Isolation of a Drosophila gene encoding a head-specific guanylyl cyclase. <i>Journal of Neurochemistry</i> , 1993 , 60, 1570-3	6	27
33	Inositol 1,4,5-triphosphate receptor-binding protein released with inositol 1,4,5-triphosphate (IRBIT) associates with components of the mRNA 3Sprocessing machinery in a phosphorylation-dependent manner and inhibits polyadenylation. <i>Journal of Biological Chemistry</i> , 2009 , 284, 10694-705	5.4	26
32	Unaltered ryanodine receptor protein levels in ischemic cardiomyopathy. <i>Molecular and Cellular Biochemistry</i> , 1996 , 160-161, 297-302	4.2	26
31	RNG105/caprin1, an RNA granule protein for dendritic mRNA localization, is essential for long-term memory formation. <i>ELife</i> , 2017 , 6,	8.9	23
30	Bcl-2 and IP compete for the ligand-binding domain of IPRs modulating Ca signaling output. <i>Cellular and Molecular Life Sciences</i> , 2019 , 76, 3843-3859	10.3	22

29	Drosophila AD3 mutation of synaptotagmin impairs calcium-dependent self-oligomerization activity. <i>FEBS Letters</i> , 2000 , 482, 269-72	3.8	22
28	An improved retroviral vector for assaying promoter activity. Analysis of promoter interference in pIP211 vector. <i>FEBS Letters</i> , 1993 , 315, 129-33	3.8	22
27	An IRBIT homologue lacks binding activity to inositol 1,4,5-trisphosphate receptor due to the unique N-terminal appendage. <i>Journal of Neurochemistry</i> , 2009 , 109, 539-50	6	19
26	Tac2-N, an atypical C-type tandem C2 protein localized in the nucleus. <i>FEBS Letters</i> , 2001 , 503, 217-8	3.8	18
25	Retrovirus-mediated gene transfer targeted to malignant glioma cells in murine brain. <i>Japanese Journal of Cancer Research</i> , 1992 , 83, 1244-7		18
24	Transcriptional regulation of mouse type 1 inositol 1,4,5-trisphosphate receptor gene by NeuroD-related factor. <i>Journal of Neurochemistry</i> , 1999 , 72, 1717-24	6	17
23	Consensus report of the 8 and 9th Weinman Symposia on Gene x Environment Interaction in carcinogenesis: novel opportunities for precision medicine. <i>Cell Death and Differentiation</i> , 2018 , 25, 1885-1904 ^{12,7}	12.7	17
22	Expression of proteolipid protein gene is directly associated with secretion of a factor influencing oligodendrocyte development. <i>Journal of Neurochemistry</i> , 1995 , 64, 2396-403	6	16
21	IP Receptor Plasticity Underlying Diverse Functions. <i>Annual Review of Physiology</i> , 2020 , 82, 151-176	23.1	16
20	Histamine H receptor on astrocytes and neurons controls distinct aspects of mouse behaviour. <i>Scientific Reports</i> , 2019 , 9, 16451	4.9	15
19	Xenopus Polycomblike 2 (XPcl2) controls anterior to posterior patterning of the neural tissue. <i>Development Genes and Evolution</i> , 2001 , 211, 309-14	1.8	15
18	Fate of jimpy-type oligodendrocytes in jimpy heterozygote. <i>Journal of Neurochemistry</i> , 1994 , 62, 1887-93		14
17	Involvement of protein tyrosine phosphatases in activation of the trimeric G protein Gq/11. <i>Oncogene</i> , 1999 , 18, 7399-402	9.2	13
16	Demonstration of an E-box and its CNS-related binding factors for transcriptional regulation of the mouse type 1 inositol 1,4,5-trisphosphate receptor gene. <i>Journal of Neurochemistry</i> , 1997 , 69, 476-84	6	12
15	Splicing variation of Long-IRBIT determines the target selectivity of IRBIT family proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3921-3926	11.5	11
14	Desensitization of IP ₃ -induced Ca ²⁺ release by overexpression of a constitutively active Gq α protein converts ventral to dorsal fate in Xenopus early embryos. <i>Development Growth and Differentiation</i> , 2000 , 42, 327-35	3	11
13	Dissection of local Ca ²⁺ signals inside cytosol by ER-targeted Ca ²⁺ indicator. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 479, 67-73	3.4	10
12	Inositol 1,4,5-trisphosphate receptors are autoantibody target antigens in patients with Sjögren's syndrome and other systemic rheumatic diseases. <i>Modern Rheumatology</i> , 2007 , 17, 137-143	3.3	9

11	argos Is required for projection of photoreceptor axons during optic lobe development in <i>Drosophila</i> . <i>Developmental Dynamics</i> , 1996 , 205, 162-71	2.9	9
10	IRBIT Interacts with the Catalytic Core of Phosphatidylinositol Phosphate Kinase Type I and III through Conserved Catalytic Aspartate Residues. <i>PLoS ONE</i> , 2015 , 10, e0141569	3.7	6
9	The molecular mechanism of synaptic activity-induced astrocytic volume transient. <i>Journal of Physiology</i> , 2020 , 598, 4555-4572	3.9	5
8	Ten-eleven translocation 1 mediated-DNA hydroxymethylation is required for myelination and remyelination in the mouse brain. <i>Nature Communications</i> , 2021 , 12, 5091	17.4	4
7	EXPRESSION OF THE GREEN FLUORESCENT PROTEIN DERIVATIVE S65T IN XENOPUS LAEVIS OOCYTES. <i>Biomedical Research</i> , 1996 , 17, 221-225	1.5	2
6	The inositol 1,4,5-trisphosphate receptor. <i>Novartis Foundation Symposium</i> , 1992 , 164, 17-29; discussion 29-35		2
5	Synaptic Function and Neuropathological Disease Revealed by Quantum Dot-Single-Particle Tracking. <i>Neuromethods</i> , 2020 , 131-155	0.4	2
4	Inhibitory synaptic transmission tuned by Ca and glutamate through the control of GABA R lateral diffusion dynamics. <i>Development Growth and Differentiation</i> , 2020 , 62, 398-406	3	1
3	Metabolic labeling of a subset of glial cells by UDP-galactose: implication for astrocyte lineage diversity. <i>Journal of Neuroscience Research</i> , 1998 , 52, 173-83	4.4	1
2	ERAD components Derlin-1 and Derlin-2 are essential for postnatal brain development and motor function. <i>IScience</i> , 2021 , 24, 102758	6.1	0
1	GIT1 protects against breast cancer growth through negative regulation of Notch.. <i>Nature Communications</i> , 2022 , 13, 1537	17.4	0