

# Katsuhiko Mikoshiba

## List of Publications by Year in descending order

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82  
papers

6,355  
citations

94269

37  
h-index

66788

78  
g-index

86  
all docs

86  
docs citations

86  
times ranked

5797  
citing authors

#	ARTICLE	IF	CITATIONS
1	Scrambler and yotari disrupt the disabled gene and produce a reeler -like phenotype in mice. <i>Nature</i> , 1997, 389, 730-733.	13.7	604
2	Requirement of the Inositol Trisphosphate Receptor for Activation of Store-Operated Ca <sup>2+</sup> Channels. <i>Science</i> , 2000, 287, 1647-1651.	6.0	548
3	Alterations of Sarcoplasmic Reticulum Proteins in Failing Human Dilated Cardiomyopathy. <i>Circulation</i> , 1995, 92, 778-784.	1.6	427
4	IP <sub>3</sub> receptor/Ca <sup>2+</sup> channel: from discovery to new signaling concepts. <i>Journal of Neurochemistry</i> , 2007, 102, 1426-1446.	2.1	354
5	Structure of the inositol 1,4,5-trisphosphate receptor binding core in complex with its ligand. <i>Nature</i> , 2002, 420, 696-700.	13.7	309
6	IP3 Receptor Types 2 and 3 Mediate Exocrine Secretion Underlying Energy Metabolism. <i>Science</i> , 2005, 309, 2232-2234.	6.0	285
7	Activity-Dependent Tuning of Inhibitory Neurotransmission Based on GABAAR Diffusion Dynamics. <i>Neuron</i> , 2009, 62, 670-682.	3.8	252
8	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, 1880-1890.	2.1	220
9	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, 10602-10612.	1.6	176
10	Inositol 1,4,5-Trisphosphate Receptor-Mediated Ca <sup>2+</sup> Signaling in the Brain. <i>Journal of Neurochemistry</i> , 1995, 64, 953-960.	2.1	171
11	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.	4.5	153
12	IRBIT, an inositol 1,4,5-trisphosphate receptor-binding protein, specifically binds to and activates pancreas-type Na <sup>+</sup> /HCO <sub>3</sub> <sup>-</sup> cotransporter 1 (pNBC1). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9542-9547.	3.3	150
13	IRBIT coordinates epithelial fluid and HCO <sub>3</sub> <sup>-</sup> secretion by stimulating the transporters pNBC1 and CFTR in the murine pancreatic duct. <i>Journal of Clinical Investigation</i> , 2009, 119, 193-202.	3.9	113
14	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.	1.6	109
15	The function of inositol high polyphosphate binding proteins. <i>BioEssays</i> , 1997, 19, 593-603.	1.2	102
16	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. , 1996, 372, 215-228.		97
17	Kinesin dependent, rapid, bi-directional transport of ER sub-compartment in dendrites of hippocampal neurons. <i>Journal of Cell Science</i> , 2004, 117, 163-175.	1.2	92
18	Bidirectional Control of Synaptic GABAAR Clustering by Glutamate and Calcium. <i>Cell Reports</i> , 2015, 13, 2768-2780.	2.9	88

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19	Antibody to the inositol trisphosphate receptor blocks thimerosal-enhanced Ca <sup>2+</sup> -induced Ca <sup>2+</sup> -release and Ca <sup>2+</sup> -oscillations in hamster eggs. <i>FEBS Letters</i> , 1992, 309, 180-184.	1.3	87
20	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, 149-154.	1.3	84
21	Adenophostin-mediated quantal Ca <sup>2+</sup> -release in the purified and reconstituted inositol 1,4,5-trisphosphate receptor type 1. <i>FEBS Letters</i> , 1995, 368, 248-252.	1.3	84
22	Irbit Mediates Synergy Between Ca <sup>2+</sup> and cAMP Signaling Pathways During Epithelial Transport in Mice. <i>Gastroenterology</i> , 2013, 145, 232-241.	0.6	81
23	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.	1.6	68
24	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, 503-510.	0.5	67
25	Synaptotagmin IV Is Present at the Golgi and Distal Parts of Neurites. <i>Journal of Neurochemistry</i> , 2001, 74, 518-526.	2.1	67
26	The IP3 receptor/Ca <sup>2+</sup> channel and its cellular function. <i>Biochemical Society Symposia</i> , 2007, 74, 9.	2.7	63
27	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, 191-196.	1.3	61
28	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 Offspring1. <i>Biology of Reproduction</i> , 1998, 58, 867-873.	1.2	56
29	IRBIT controls apoptosis by interacting with the Bcl-2 homolog, Bcl2l10, and by promoting ER-mitochondria contact. <i>ELife</i> , 2016, 5, .	2.8	56
30	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 complex formation. <i>Biochemical Journal</i> , 1997, 323, 273-280.	1.7	55
31	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, 175-191.	3.4	49
32	Characterization of KIAA1427 protein as an atypical synaptotagmin (Syt XIII). <i>Biochemical Journal</i> , 2001, 354, 249-257.	1.7	47
33	Gephyrin-Independent GABAAR Mobility and Clustering during Plasticity. <i>PLoS ONE</i> , 2012, 7, e36148.	1.1	47
34	IRBIT: A regulator of ion channels and ion transporters. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 2195-2204.	1.9	45
35	RNG105/caprin1, an RNA granule protein for dendritic mRNA localization, is essential for long-term memory formation. <i>ELife</i> , 2017, 6, .	2.8	45
36	Remodeling of Ca <sup>2+</sup> 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.	1.4	43

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37	Regulation by bivalent cations of phospholipid binding to the C2A domain of synaptotagmin III. <i>Biochemical Journal</i> , 1997, 323, 421-425.	1.7	41
38	Developmental Neurotoxicity of Phenytoin on Granule Cells and Purkinje Cells in Mouse Cerebellum. <i>Journal of Neurochemistry</i> , 2001, 72, 1497-1506.	2.1	41
39	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, 322-326.	1.3	39
40	Inositol 1,4,5-trisphosphate (IP3) receptors and their role in neuronal cell function. <i>Journal of Neurochemistry</i> , 2006, 97, 1627-1633.	2.1	39
41	Novel Isoforms of Mouse Myelin Basic Protein Predominantly Expressed in Embryonic Stage. <i>Journal of Neurochemistry</i> , 1993, 60, 1554-1563.	2.1	36
42	IRBIT regulates CaMKII $\beta$ 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, 5515-5520.	3.3	35
43	G-protein-coupled Receptor Kinase-interacting Proteins Inhibit Apoptosis by Inositol 1,4,5-Triphosphate Receptor-mediated Ca <sup>2+</sup> Signal Regulation. <i>Journal of Biological Chemistry</i> , 2009, 284, 29158-29169.	1.6	34
44	Unaltered ryanodine receptor protein levels in ischemic cardiomyopathy. <i>Molecular and Cellular Biochemistry</i> , 1996, 160-161, 297-302.	1.4	33
45	Inositol 1,4,5-trisphosphate receptor associated with focal contact cytoskeletal proteins. <i>FEBS Letters</i> , 2000, 466, 29-34.	1.3	32
46	A unique spacer domain of synaptotagmin IV is essential for Golgi localization. <i>Journal of Neurochemistry</i> , 2001, 77, 730-740.	2.1	32
47	Functional Expression of the Type 1 Inositol 1,4,5-Trisphosphate Receptor Promoter $\beta$ Fusion Genes in Transgenic Mice. <i>Journal of Neurochemistry</i> , 1996, 66, 1793-1801.	2.1	31
48	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.	5.0	31
49	Histamine H1 receptor on astrocytes and neurons controls distinct aspects of mouse behaviour. <i>Scientific Reports</i> , 2019, 9, 16451.	1.6	31
50	Bcl-2 and IP3 compete for the ligand-binding domain of IP3Rs modulating Ca <sup>2+</sup> signaling output. <i>Cellular and Molecular Life Sciences</i> , 2019, 76, 3843-3859.	2.4	31
51	IP <sub>3</sub> Receptor Plasticity Underlying Diverse Functions. <i>Annual Review of Physiology</i> , 2020, 82, 151-176.	5.6	31
52	Development of Purkinje cells in humans: an immunohistochemical study using a monoclonal antibody against the inositol 1, 4, 5-trisphosphate type 1 receptor (IP <sub>3</sub> R1). <i>Acta Neuropathologica</i> , 1999, 98, 226-232.	3.9	30
53	Molecular cloning and expression of a cDNA encoding an olfactory-specific mouse phenol sulphotransferase. <i>Biochemical Journal</i> , 1998, 331, 953-958.	1.7	29
54	Inositol 1,4,5-Triphosphate Receptor-binding Protein Released with Inositol 1,4,5-Triphosphate (IRBIT) Associates with Components of the mRNA 3' Processing Machinery in a Phosphorylation-dependent Manner and Inhibits Polyadenylation. <i>Journal of Biological Chemistry</i> , 2009, 284, 10694-10705.	1.6	29

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55	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, 236-246.	1.3	28
56	Isolation of a <i>Drosophila</i> Gene Encoding a Head-Specific Guanylyl Cyclase. <i>Journal of Neurochemistry</i> , 1993, 60, 1570-1573.	2.1	27
57	An improved retroviral vector for assaying promoter activity. <i>FEBS Letters</i> , 1993, 315, 129-133.	1.3	27
58	<i>Drosophila</i> AD3 mutation of synaptotagmin impairs calcium-dependent self-oligomerization activity. <i>FEBS Letters</i> , 2000, 482, 269-272.	1.3	24
59	Tac2-N, an atypical C-type tandem C2 protein localized in the nucleus 1. <i>FEBS Letters</i> , 2001, 503, 217-218.	1.3	22
60	Ten-eleven translocation 1 mediated-DNA hydroxymethylation is required for myelination and remyelination in the mouse brain. <i>Nature Communications</i> , 2021, 12, 5091.	5.8	22
61	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, 539-550.	2.1	20
62	Retrovirus-mediated Gene Transfer Targeted to Malignant Glioma Cells in Murine Brain. <i>Japanese Journal of Cancer Research</i> , 1992, 83, 1244-1247.	1.7	19
63	Transcriptional Regulation of Mouse Type 1 Inositol 1,4,5-Trisphosphate Receptor Gene by NeuroD-Related Factor. <i>Journal of Neurochemistry</i> , 2001, 72, 1717-1724.	2.1	17
64	Expression of Proteolipid Protein Gene Is Directly Associated with Secretion of a Factor Influencing Oligodendrocyte Development. <i>Journal of Neurochemistry</i> , 1995, 64, 2396-2403.	2.1	17
65	<i>Xenopus</i> Polycomblike 2 ( XPcl2 ) controls anterior to posterior patterning of the neural tissue. <i>Development Genes and Evolution</i> , 2001, 211, 309-314.	0.4	16
66	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> , 2002, 69, 476-484.	2.1	16
67	Fate of Jimpy-type Oligodendrocytes in Jimpy Heterozygote. <i>Journal of Neurochemistry</i> , 1994, 62, 1887-1893.	2.1	16
68	Involvement of protein tyrosine phosphatases in activation of the trimeric G protein Gq/11. <i>Oncogene</i> , 1999, 18, 7399-7402.	2.6	13
69	Dissection of local Ca <sup>2+</sup> signals inside cytosol by ER-targeted Ca <sup>2+</sup> indicator. <i>Biochemical and Biophysical Research Communications</i> , 2016, 479, 67-73.	1.0	12
70	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.	3.3	12
71	argos is required for projection of photoreceptor axons during optic lobe development in <i>Drosophila</i> . <i>Developmental Dynamics</i> , 1996, 205, 162-171.	0.8	11
72	Desensitization of IP <sub>3</sub> -induced Ca <sup>2+</sup> release by overexpression of a constitutively active Gqalpha protein converts ventral to dorsal fate in <i>Xenopus</i> early embryos. <i>Development Growth and Differentiation</i> , 2000, 42, 327-335.	0.6	11

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73	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.	0.9	11
74	ERAD components Derlin-1 and Derlin-2 are essential for postnatal brain development and motor function. <i>IScience</i> , 2021, 24, 102758.	1.9	11
75	IRBIT Interacts with the Catalytic Core of Phosphatidylinositol Phosphate Kinase Type II $\alpha$ and III $\alpha$ through Conserved Catalytic Aspartate Residues. <i>PLoS ONE</i> , 2015, 10, e0141569.	1.1	11
76	The molecular mechanism of synaptic activity-induced astrocytic volume transient. <i>Journal of Physiology</i> , 2020, 598, 4555-4572.	1.3	10
77	GIT1 protects against breast cancer growth through negative regulation of Notch. <i>Nature Communications</i> , 2022, 13, 1537.	5.8	5
78	Inhibitory synaptic transmission tuned by Ca <sup>2+</sup> and glutamate through the control of GABA A R lateral diffusion dynamics. <i>Development Growth and Differentiation</i> , 2020, 62, 398-406.	0.6	3
79	The Inositol 1,4,5-Trisphosphate Receptor. <i>Novartis Foundation Symposium</i> , 1992, 164, 17-35.	1.2	3
80	<b>EXPRESSION OF THE GREEN FLUORESCENT PROTEIN DERIVATIVE S65T IN <i>XENOPUS LAEVIS</i> OOCYTES</b> . <i>Biomedical Research</i> , 1996, 17, 221-225.	0.3	2
81	Metabolic labeling of a subset of glial cells by UDP-galactose: Implication for astrocyte lineage diversity. <i>Journal of Neuroscience Research</i> , 1998, 52, 173-183.	1.3	2
82	Synaptic Function and Neuropathological Disease Revealed by Quantum Dot-Single-Particle Tracking. <i>Neuromethods</i> , 2020, , 131-155.	0.2	2