

Katsuhiko Mikoshiba

List of Publications by Year in Descending Order

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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 | GIT1 protects against breast cancer growth through negative regulation of Notch.. <i>Nature Communications</i> , 2022 , 13, 1537 | 17.4 | 0 |
| 81 | 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 |
| 80 | 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 |
| 79 | 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 |
| 78 | IP Receptor Plasticity Underlying Diverse Functions. <i>Annual Review of Physiology</i> , 2020 , 82, 151-176 | 23.1 | 16 |
| 77 | The molecular mechanism of synaptic activity-induced astrocytic volume transient. <i>Journal of Physiology</i> , 2020 , 598, 4555-4572 | 3.9 | 5 |
| 76 | Synaptic Function and Neuropathological Disease Revealed by Quantum Dot-Single-Particle Tracking. <i>NeuroMethods</i> , 2020 , 131-155 | 0.4 | 2 |
| 75 | 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 |
| 74 | Histamine H receptor on astrocytes and neurons controls distinct aspects of mouse behaviour. <i>Scientific Reports</i> , 2019 , 9, 16451 | 4.9 | 15 |
| 73 | 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 |
| 72 | 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 | 17 |
| 71 | 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 |
| 70 | 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 |
| 69 | 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 |
| 68 | 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 |
| 67 | IRBIT regulates CaMKII α 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 |
| 66 | Bidirectional Control of Synaptic GABAAR Clustering by Glutamate and Calcium. <i>Cell Reports</i> , 2015 , 13, 2768-80 | 10.6 | 58 |

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|----|--|------|-----|
| 65 | IRBIT Interacts with the Catalytic Core of Phosphatidylinositol Phosphate Kinase Type I α and III through Conserved Catalytic Aspartate Residues. <i>PLoS ONE</i> , 2015 , 10, e0141569 | 3.7 | 6 |
| 64 | 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 |
| 63 | Irbit mediates synergy between ca(2+) and cAMP signaling pathways during epithelial transport in mice. <i>Gastroenterology</i> , 2013 , 145, 232-241 | 13.3 | 69 |
| 62 | Gephyrin-independent GABA(A)R mobility and clustering during plasticity. <i>PLoS ONE</i> , 2012 , 7, e36148 | 3.7 | 40 |
| 61 | 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 |
| 60 | 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 |
| 59 | G-protein-coupled receptor kinase-interacting proteins inhibit apoptosis by inositol 1,4,5-triphosphate receptor-mediated Ca2+ signal regulation. <i>Journal of Biological Chemistry</i> , 2009 , 284, 29158-69 | 5.4 | 32 |
| 58 | 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 |
| 57 | Activity-dependent tuning of inhibitory neurotransmission based on GABAAR diffusion dynamics. <i>Neuron</i> , 2009 , 62, 670-82 | 13.9 | 213 |
| 56 | IRBIT coordinates epithelial fluid and HCO3- 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 |
| 55 | IP3 receptor/Ca2+ channel: from discovery to new signaling concepts. <i>Journal of Neurochemistry</i> , 2007 , 102, 1426-1446 | 6 | 313 |
| 54 | 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 |
| 53 | The IP3 receptor/Ca2+ channel and its cellular function. <i>Biochemical Society Symposia</i> , 2007 , 9-22 | | 53 |
| 52 | 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 |
| 51 | IRBIT, an inositol 1,4,5-trisphosphate receptor-binding protein, specifically binds to and activates pancreas-type Na+/HCO3- 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 |
| 50 | 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 |
| 49 | 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 |
| 48 | IP3 receptor types 2 and 3 mediate exocrine secretion underlying energy metabolism. <i>Science</i> , 2005 , 309, 2232-4 | 33.3 | 254 |

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|----|---|------|-----|
| 47 | 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 |
| 46 | 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 |
| 45 | 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 |
| 44 | Characterization of KIAA1427 protein as an atypical synaptotagmin (Syt XIII). <i>Biochemical Journal</i> , 2001 , 354, 249-257 | 3.8 | 42 |
| 43 | 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 |
| 42 | A unique spacer domain of synaptotagmin IV is essential for Golgi localization. <i>Journal of Neurochemistry</i> , 2001 , 77, 730-40 | 6 | 30 |
| 41 | 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 |
| 40 | Tac2-N, an atypical C-type tandem C2 protein localized in the nucleus. <i>FEBS Letters</i> , 2001 , 503, 217-8 | 3.8 | 18 |
| 39 | Synaptotagmin IV is present at the Golgi and distal parts of neurites. <i>Journal of Neurochemistry</i> , 2000 , 74, 518-26 | 6 | 61 |
| 38 | Desensitization of IP3-induced Ca ²⁺ release by overexpression of a constitutively active Gqalpha protein converts ventral to dorsal fate in Xenopus early embryos. <i>Development Growth and Differentiation</i> , 2000 , 42, 327-35 | 3 | 11 |
| 37 | Drosophila AD3 mutation of synaptotagmin impairs calcium-dependent self-oligomerization activity. <i>FEBS Letters</i> , 2000 , 482, 269-72 | 3.8 | 22 |
| 36 | Inositol 1,4,5-trisphosphate receptor associated with focal contact cytoskeletal proteins. <i>FEBS Letters</i> , 2000 , 466, 29-34 | 3.8 | 30 |
| 35 | Requirement of the inositol trisphosphate receptor for activation of store-operated Ca ²⁺ channels. <i>Science</i> , 2000 , 287, 1647-51 | 33.3 | 523 |
| 34 | Developmental neurotoxicity of phenytoin on granule cells and Purkinje cells in mouse cerebellum. <i>Journal of Neurochemistry</i> , 1999 , 72, 1497-506 | 6 | 33 |
| 33 | 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 |
| 32 | Involvement of protein tyrosine phosphatases in activation of the trimeric G protein Gq/11. <i>Oncogene</i> , 1999 , 18, 7399-402 | 9.2 | 13 |
| 31 | Development of Purkinje cells in humans: an immunohistochemical study using a monoclonal antibody against the inositol 1,4,5-trisphosphate type 1 receptor (IP3R1). <i>Acta Neuropathologica</i> , 1999 , 98, 226-32 | 14.3 | 28 |
| 30 | 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 |

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|----|---|------|-----|
| 29 | 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 |
| 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 offspring. <i>Biology of Reproduction</i> , 1998 , 58, 867-73 | 3.9 | 49 |
| 27 | 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 |
| 26 | 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 (Pt 1), 273-80 | 3.8 | 52 |
| 25 | 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 |
| 24 | 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 |
| 23 | The function of inositol high polyphosphate binding proteins. <i>BioEssays</i> , 1997 , 19, 593-603 | 4.1 | 96 |
| 22 | 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 |
| 21 | 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 |
| 20 | EXPRESSION OF THE GREEN FLUORESCENT PROTEIN DERIVATIVE S65T IN XENOPUS LAEVIS OOCYTES. <i>Biomedical Research</i> , 1996 , 17, 221-225 | 1.5 | 2 |
| 19 | 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 |
| 18 | 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 |
| 17 | Unaltered ryanodine receptor protein levels in ischemic cardiomyopathy. <i>Molecular and Cellular Biochemistry</i> , 1996 , 160-161, 297-302 | 4.2 | 26 |
| 16 | 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 |
| 15 | Inositol 1, 4, 5-trisphosphate receptor-mediated Ca ²⁺ signaling in the brain. <i>Journal of Neurochemistry</i> , 1995 , 64, 953-60 | 6 | 148 |
| 14 | 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 |
| 13 | 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 |
| 12 | Alterations of sarcoplasmic reticulum proteins in failing human dilated cardiomyopathy. <i>Circulation</i> , 1995 , 92, 778-84 | 16.7 | 335 |

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|----|--|-----|-----|
| 11 | Fate of jimpy-type oligodendrocytes in jimpy heterozygote. <i>Journal of Neurochemistry</i> , 1994 , 62, 1887-93 | | 14 |
| 10 | 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 |
| 9 | 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 |
| 8 | 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 |
| 7 | Novel isoforms of mouse myelin basic protein predominantly expressed in embryonic stage. <i>Journal of Neurochemistry</i> , 1993 , 60, 1554-63 | 6 | 34 |
| 6 | Isolation of a Drosophila gene encoding a head-specific guanylyl cyclase. <i>Journal of Neurochemistry</i> , 1993 , 60, 1570-3 | 6 | 27 |
| 5 | 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 |
| 4 | Antibody to the inositol trisphosphate receptor blocks thimerosal-enhanced Ca(2+)-induced Ca2+ release and Ca2+ oscillations in hamster eggs. <i>FEBS Letters</i> , 1992 , 309, 180-4 | 3.8 | 77 |
| 3 | Retrovirus-mediated gene transfer targeted to malignant glioma cells in murine brain. <i>Japanese Journal of Cancer Research</i> , 1992 , 83, 1244-7 | | 18 |
| 2 | The inositol 1,4,5-trisphosphate receptor. <i>Novartis Foundation Symposium</i> , 1992 , 164, 17-29; discussion 29-35 | | 2 |
| 1 | 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 |