

Kartik Venkatachalam

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

9,204
citations

257101

24
h-index

377514

34
g-index

41
all docs

41
docs citations

41
times ranked

18367
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
2	TRP Channels. <i>Annual Review of Biochemistry</i> , 2007, 76, 387-417.	5.0	1,768
3	The cellular and molecular basis of store-operated calcium entry. <i>Nature Cell Biology</i> , 2002, 4, E263-E272.	4.6	336
4	Regulation of Canonical Transient Receptor Potential (TRPC) Channel Function by Diacylglycerol and Protein Kinase C. <i>Journal of Biological Chemistry</i> , 2003, 278, 29031-29040.	1.6	305
5	Membrane potential modulates plasma membrane phospholipid dynamics and K-Ras signaling. <i>Science</i> , 2015, 349, 873-876.	6.0	243
6	Motor Deficit in a <i>Drosophila</i> Model of Mucopolidosis Type IV due to Defective Clearance of Apoptotic Cells. <i>Cell</i> , 2008, 135, 838-851.	13.5	191
7	The role of TRPMLs in endolysosomal trafficking and function. <i>Cell Calcium</i> , 2015, 58, 48-56.	1.1	166
8	Modification of Store-operated Channel Coupling and Inositol Trisphosphate Receptor Function by 2-Aminoethoxydiphenyl Borate in DT40 Lymphocytes. <i>Journal of Biological Chemistry</i> , 2002, 277, 6915-6922.	1.6	158
9	Assessment of the Role of the Inositol 1,4,5-Trisphosphate Receptor in the Activation of Transient Receptor Potential Channels and Store-operated Ca ²⁺ Entry Channels. <i>Journal of Biological Chemistry</i> , 2001, 276, 18888-18896.	1.6	152
10	Expression of Functional Receptor-coupled TRPC3 Channels in DT40 Triple Receptor InsP3 knockout Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 33980-33985.	1.6	131
11	Lysosomal Localization of TRPML3 Depends on TRPML2 and the Mucopolidosis-associated Protein TRPML1. <i>Journal of Biological Chemistry</i> , 2006, 281, 17517-17527.	1.6	131
12	<i>Drosophila</i> TRPML Is Required for TORC1 Activation. <i>Current Biology</i> , 2012, 22, 1616-1621.	1.8	99
13	A Voltage-Gated Calcium Channel Regulates Lysosomal Fusion with Endosomes and Autophagosomes and Is Required for Neuronal Homeostasis. <i>PLoS Biology</i> , 2015, 13, e1002103.	2.6	85
14	Low doses of the neonicotinoid insecticide imidacloprid induce ROS triggering neurological and metabolic impairments in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25840-25850.	3.3	85
15	Lysosomal Degradation Is Required for Sustained Phagocytosis of Bacteria by Macrophages. <i>Cell Host and Microbe</i> , 2017, 21, 719-730.e6.	5.1	79
16	The Retromer Complex Is Required for Rhodopsin Recycling and Its Loss Leads to Photoreceptor Degeneration. <i>PLoS Biology</i> , 2014, 12, e1001847.	2.6	75
17	A TRPV Channel in <i>Drosophila</i> Motor Neurons Regulates Presynaptic Resting Ca ²⁺ Levels, Synapse Growth, and Synaptic Transmission. <i>Neuron</i> , 2014, 84, 764-777.	3.8	68
18	<i>Drosophila</i> TRPML Forms PI(3,5)P ₂ -activated Cation Channels in Both Endolysosomes and Plasma Membrane. <i>Journal of Biological Chemistry</i> , 2014, 289, 4262-4272.	1.6	62

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19	HRAS-driven cancer cells are vulnerable to TRPML1 inhibition. <i>EMBO Reports</i> , 2019, 20, .	2.0	59
20	Roles for the Endoplasmic Reticulum in Regulation of Neuronal Calcium Homeostasis. <i>Cells</i> , 2019, 8, 1232.	1.8	54
21	Evolutionarily Conserved, Multitasking TRP Channels: Lessons from Worms and Flies. <i>Handbook of Experimental Pharmacology</i> , 2014, 223, 937-962.	0.9	47
22	Feast or famine. <i>Autophagy</i> , 2013, 9, 98-100.	4.3	35
23	Dependence on a Retinophilin/Myosin Complex for Stability of PKC and INAD and Termination of Phototransduction. <i>Journal of Neuroscience</i> , 2010, 30, 11337-11345.	1.7	29
24	Diminished MTORC1-Dependent JNK Activation Underlies the Neurodevelopmental Defects Associated with Lysosomal Dysfunction. <i>Cell Reports</i> , 2015, 12, 2009-2020.	2.9	25
25	Regulation of longevity by depolarization-induced activation of PLC-IP ₃ R signaling in neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	21
26	Motor neurons from ALS patients with mutations in C9ORF72 and SOD1 exhibit distinct transcriptional landscapes. <i>Human Molecular Genetics</i> , 2019, 28, 2799-2810.	1.4	19
27	TRPML1 and RAS-driven cancers – exploring a link with great therapeutic potential. <i>Channels</i> , 2019, 13, 374-381.	1.5	16
28	Low doses of the organic insecticide spinosad trigger lysosomal defects, elevated ROS, lipid dysregulation, and neurodegeneration in flies. <i>ELife</i> , 2022, 11, .	2.8	16
29	p53 mitigates the effects of oncogenic HRAS in urothelial cells via the repression of MCOLN1. <i>IScience</i> , 2021, 24, 102701.	1.9	5
30	TRPping the homeostatic alarm – Melanoma cells are selectively vulnerable to TRPML1 deletion. <i>Cell Calcium</i> , 2019, 84, 102082.	1.1	4
31	Regulation of Aging and Longevity by Ion Channels and Transporters. <i>Cells</i> , 2022, 11, 1180.	1.8	4
32	Transducin in Rod Photoreceptors: Translocated When Not Terminated. <i>Journal of Neuroscience</i> , 2007, 27, 6349-6351.	1.7	3
33	VGLUT soothes the sour synapse. <i>Journal of Physiology</i> , 2017, 595, 615-616.	1.3	1
34	TRPML1-Dependent Processes as Therapeutic Targets. , 2015, , 469-482.		0