

Tamara Rosenbaum

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.

55
papers

1,831
citations

22
h-index

42
g-index

60
ext. papers

2,142
ext. citations

5.8
avg, IF

4.79
L-index

#	Paper	IF	Citations
55	Ca ²⁺ /calmodulin modulates TRPV1 activation by capsaicin. <i>Journal of General Physiology</i> , 2004 , 123, 53-62	6.24	235
54	A single N-terminal cysteine in TRPV1 determines activation by pungent compounds from onion and garlic. <i>Nature Neuroscience</i> , 2008 , 11, 255-61	25.5	166
53	Lysophosphatidic acid directly activates TRPV1 through a C-terminal binding site. <i>Nature Chemical Biology</i> , 2011 , 8, 78-85	11.7	134
52	TRPV1: on the road to pain relief. <i>Current Molecular Pharmacology</i> , 2008 , 1, 255-69	3.7	114
51	Identification of a binding motif in the S5 helix that confers cholesterol sensitivity to the TRPV1 ion channel. <i>Journal of Biological Chemistry</i> , 2011 , 286, 24966-76	5.4	103
50	Structural determinants of gating in the TRPV1 channel. <i>Nature Structural and Molecular Biology</i> , 2009 , 16, 704-10	17.6	85
49	The role of endogenous molecules in modulating pain through transient receptor potential vanilloid 1 (TRPV1). <i>Journal of Physiology</i> , 2013 , 591, 3109-21	3.9	81
48	Pancreatic beta cells synthesize and secrete nerve growth factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 7784-8	11.5	76
47	Nerve growth factor increases insulin secretion and barium current in pancreatic beta-cells. <i>Diabetes</i> , 2001 , 50, 1755-62	0.9	56
46	Inhibition of TRPV1 channels by a naturally occurring omega-9 fatty acid reduces pain and itch. <i>Nature Communications</i> , 2016 , 7, 13092	17.4	39
45	On the mechanism of TBA block of the TRPV1 channel. <i>Biophysical Journal</i> , 2007 , 92, 3901-14	2.9	37
44	TRP channel gating physiology. <i>Current Topics in Medicinal Chemistry</i> , 2011 , 11, 2131-50	3	36
43	Dissecting intersubunit contacts in cyclic nucleotide-gated ion channels. <i>Neuron</i> , 2002 , 33, 703-13	13.9	36
42	Properties of the inner pore region of TRPV1 channels revealed by block with quaternary ammoniums. <i>Journal of General Physiology</i> , 2008 , 132, 547-62	3.4	34
41	TRPV4: A Physio and Pathophysiologically Significant Ion Channel. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	33
40	TRPV1 channels and the progesterone receptor Sig-1R interact to regulate pain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E1657-E1666	11.5	33
39	Coarse architecture of the transient receptor potential vanilloid 1 (TRPV1) ion channel determined by fluorescence resonance energy transfer. <i>Journal of Biological Chemistry</i> , 2013 , 288, 29506-17	5.4	31

38	Subunit modification and association in VR1 ion channels. <i>BMC Neuroscience</i> , 2002 , 3, 4	3.2	29
37	TRPV1: Structure, Endogenous Agonists, and Mechanisms. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	28
36	Irreversible temperature gating in trpv1 sheds light on channel activation. <i>ELife</i> , 2018 , 7,	8.9	27
35	Structural determinants of the transient receptor potential 1 (TRPV1) channel activation by phospholipid analogs. <i>Journal of Biological Chemistry</i> , 2014 , 289, 24079-90	5.4	24
34	Quickening the pace: looking into the heart of HCN channels. <i>Neuron</i> , 2004 , 42, 193-6	13.9	22
33	Molecular Interplay Between the Sigma-1 Receptor, Steroids, and Ion Channels. <i>Frontiers in Pharmacology</i> , 2019 , 10, 419	5.6	21
32	Uncoupling charge movement from channel opening in voltage-gated potassium channels by ruthenium complexes. <i>Journal of Biological Chemistry</i> , 2011 , 286, 16414-25	5.4	20
31	TRPV1 Receptors and Signal Transduction. <i>Frontiers in Neuroscience</i> , 2006 , 69-84		20
30	Multiple Mechanisms of Regulation of Transient Receptor Potential Ion Channels by Cholesterol. <i>Current Topics in Membranes</i> , 2017 , 80, 139-161	2.2	19
29	Role for the TRPV1 channel in insulin secretion from pancreatic beta cells. <i>Journal of Membrane Biology</i> , 2014 , 247, 479-91	2.3	18
28	Nerve growth factor increases L-type calcium current in pancreatic beta cells in culture. <i>Journal of Membrane Biology</i> , 2002 , 186, 177-84	2.3	18
27	Epithelia-Sensory Neuron Cross Talk Underlies Cholestatic Itch Induced by Lysophosphatidylcholine. <i>Gastroenterology</i> , 2021 , 161, 301-317.e16	13.3	18
26	State-dependent block of CNG channels by dequalinium. <i>Journal of General Physiology</i> , 2004 , 123, 295-304	3.4	16
25	Molecular Mechanisms of TRPV1 Channel Activation. <i>Open Pain Journal</i> , 2010 , 3, 68-81	0.3	16
24	Identification and functional characterization of the promoter of the mouse sodium-activated sodium channel Na(x) gene (Scn7a). <i>Journal of Neuroscience Research</i> , 2009 , 87, 2509-19	4.4	15
23	Neuron-like phenotypic changes in pancreatic B-cells induced by NGF, FGF, and dbcAMP. <i>Endocrine</i> , 1996 , 4, 19-26		15
22	Different agonists induce distinct single-channel conductance states in TRPV1 channels. <i>Journal of General Physiology</i> , 2018 , 150, 1735-1746	3.4	15
21	Regulation of thermoTRPs by lipids. <i>Temperature</i> , 2017 , 4, 24-40	5.2	13

20	Role of lysophosphatidic acid in ion channel function and disease. <i>Journal of Neurophysiology</i> , 2018 , 120, 1198-1211	3.2	13
19	Organic toxins as tools to understand ion channel mechanisms and structure. <i>Current Topics in Medicinal Chemistry</i> , 2015 , 15, 581-603	3	13
18	Cholesterol as a Key Molecule That Regulates TRPV1 Channel Function. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1135, 105-117	3.6	12
17	Dequalinium: a novel, high-affinity blocker of CNGA1 channels. <i>Journal of General Physiology</i> , 2003 , 121, 37-47	3.4	12
16	TRP ion channels: Proteins with conformational flexibility. <i>Channels</i> , 2019 , 13, 207-226	3	11
15	A painful link between the TRPV1 channel and lysophosphatidic acid. <i>Life Sciences</i> , 2015 , 125, 15-24	6.8	10
14	Steroids and TRP Channels: A Close Relationship. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	10
13	Lipid modulation of thermal transient receptor potential channels. <i>Current Topics in Membranes</i> , 2014 , 74, 135-80	2.2	9
12	The Contribution of the Ankyrin Repeat Domain of TRPV1 as a Thermal Module. <i>Biophysical Journal</i> , 2020 , 118, 836-845	2.9	9
11	KV1.2 channels inactivate through a mechanism similar to C-type inactivation. <i>Journal of General Physiology</i> , 2020 , 152,	3.4	7
10	Nerve growth factor increases sodium current in pancreatic beta cells. <i>Journal of Membrane Biology</i> , 1996 , 153, 53-8	2.3	6
9	Ion channels in analgesia research. <i>Methods in Molecular Biology</i> , 2010 , 617, 223-36	1.4	5
8	Lysophosphatidic Acid and Ion Channels as Molecular Mediators of Pain. <i>Frontiers in Molecular Neuroscience</i> , 2018 , 11, 462	6.1	5
7	Activators of TRPM2: Getting it right. <i>Journal of General Physiology</i> , 2015 , 145, 485-7	3.4	4
6	The helical character of the S6 segment of TRPV1 channels. <i>Channels</i> , 2009 , 3, 311-3	3	4
5	TRPV1 Channel: A Noxious Signal Transducer That Affects Mitochondrial Function. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
4	Discovery and characterization of H1-type proton channels in reef-building corals. <i>ELife</i> , 2021 , 10,	8.9	3
3	Irreversible temperature gating in trpv1 sheds light on channel activation		2

2 TRPV1 in Cell Signaling: Molecular Mechanisms of Function and Modulation **2012**, 69-102 1

1 TRPV4 activity regulates nuclear Ca and transcriptional functions of E-catenin in a renal epithelial cell model. *Journal of Cellular Physiology*, **2021**, 236, 3599-3614 7 1