

# Tamara Rosenbaum

## List of Publications by Year in descending order

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56  
papers

2,470  
citations

257357

24  
h-index

206029

48  
g-index

60  
all docs

60  
docs citations

60  
times ranked

2673  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ca <sup>2+</sup> /Calmodulin Modulates TRPV1 Activation by Capsaicin. <i>Journal of General Physiology</i> , 2004, 123, 53-62.	0.9	279
2	A single N-terminal cysteine in TRPV1 determines activation by pungent compounds from onion and garlic. <i>Nature Neuroscience</i> , 2008, 11, 255-261.	7.1	199
3	Lysophosphatidic acid directly activates TRPV1 through a C-terminal binding site. <i>Nature Chemical Biology</i> , 2012, 8, 78-85.	3.9	173
4	TRPV1: On the Road to Pain Relief. <i>Current Molecular Pharmacology</i> , 2008, 1, 255-269.	0.7	157
5	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, 24966-24976.	1.6	119
6	Pancreatic $\hat{A}$ cells synthesize and secrete nerve growth factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 7784-7788.	3.3	101
7	Structural determinants of gating in the TRPV1 channel. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 704-710.	3.6	100
8	The role of endogenous molecules in modulating pain through transient receptor potential vanilloid 1 (TRPV1). <i>Journal of Physiology</i> , 2013, 591, 3109-3121.	1.3	91
9	TRPV1: Structure, Endogenous Agonists, and Mechanisms. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3421.	1.8	71
10	TRPV4: A Physio and Pathophysiologically Significant Ion Channel. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3837.	1.8	68
11	Nerve Growth Factor Increases Insulin Secretion and Barium Current in Pancreatic $\hat{A}$ -Cells. <i>Diabetes</i> , 2001, 50, 1755-1762.	0.3	66
12	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.	3.3	57
13	Epithelia-Sensory Neuron Cross Talk Underlies Cholestatic Itch Induced by Lysophosphatidylcholine. <i>Gastroenterology</i> , 2021, 161, 301-317.e16.	0.6	57
14	Inhibition of TRPV1 channels by a naturally occurring omega-9 fatty acid reduces pain and itch. <i>Nature Communications</i> , 2016, 7, 13092.	5.8	55
15	On the Mechanism of TBA Block of the TRPV1 Channel. <i>Biophysical Journal</i> , 2007, 92, 3901-3914.	0.2	42
16	Irreversible temperature gating in trpv1 sheds light on channel activation. <i>ELife</i> , 2018, 7, .	2.8	42
17	TRP Channel Gating Physiology. <i>Current Topics in Medicinal Chemistry</i> , 2011, 11, 2131-2150.	1.0	41
18	Properties of the Inner Pore Region of TRPV1 Channels Revealed by Block with Quaternary Ammoniums. <i>Journal of General Physiology</i> , 2008, 132, 547-562.	0.9	40

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19	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, 29506-29517.	1.6	40
20	Molecular Interplay Between the Sigma-1 Receptor, Steroids, and Ion Channels. <i>Frontiers in Pharmacology</i> , 2019, 10, 419.	1.6	40
21	Dissecting Intersubunit Contacts in Cyclic Nucleotide-Gated Ion Channels. <i>Neuron</i> , 2002, 33, 703-713.	3.8	37
22	Different agonists induce distinct single-channel conductance states in TRPV1 channels. <i>Journal of General Physiology</i> , 2018, 150, 1735-1746.	0.9	35
23	Subunit modification and association in VR1 ion channels. <i>BMC Neuroscience</i> , 2002, 3, 4.	0.8	30
24	Structural Determinants of the Transient Receptor Potential 1 (TRPV1) Channel Activation by Phospholipid Analogs. <i>Journal of Biological Chemistry</i> , 2014, 289, 24079-24090.	1.6	28
25	TRPV1 Receptors and Signal Transduction. <i>Frontiers in Neuroscience</i> , 2006, , 69-84.	0.0	27
26	Uncoupling Charge Movement from Channel Opening in Voltage-gated Potassium Channels by Ruthenium Complexes. <i>Journal of Biological Chemistry</i> , 2011, 286, 16414-16425.	1.6	26
27	Multiple Mechanisms of Regulation of Transient Receptor Potential Ion Channels by Cholesterol. <i>Current Topics in Membranes</i> , 2017, 80, 139-161.	0.5	25
28	TRP channels: a journey towards a molecular understanding of pain. <i>Nature Reviews Neuroscience</i> , 2022, 23, 596-610.	4.9	24
29	Quickening the Pace. <i>Neuron</i> , 2004, 42, 193-196.	3.8	23
30	The Contribution of the Ankyrin Repeat Domain of TRPV1 as a Thermal Module. <i>Biophysical Journal</i> , 2020, 118, 836-845.	0.2	23
31	Role for the TRPV1 Channel in Insulin Secretion from Pancreatic Beta Cells. <i>Journal of Membrane Biology</i> , 2014, 247, 479-491.	1.0	22
32	Neuron-like phenotypic changes in pancreatic $\beta$ -cells induced by NGF, FGF, and dbcAMP. <i>Endocrine</i> , 1996, 4, 19-26.	2.2	21
33	Nerve Growth Factor Increases L-Type Calcium Current in Pancreatic $\beta$ Cells in Culture. <i>Journal of Membrane Biology</i> , 2002, 186, 177-184.	1.0	21
34	Steroids and TRP Channels: A Close Relationship. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3819.	1.8	21
35	TRPV1 Channel: A Noxious Signal Transducer That Affects Mitochondrial Function. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8882.	1.8	20
36	Role of lysophosphatidic acid in ion channel function and disease. <i>Journal of Neurophysiology</i> , 2018, 120, 1198-1211.	0.9	19

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37	State-dependent Block of CNG Channels by Dequalinium. <i>Journal of General Physiology</i> , 2004, 123, 295-304.	0.9	18
38	Cholesterol as a Key Molecule That Regulates TRPV1 Channel Function. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1135, 105-117.	0.8	18
39	Molecular Mechanisms of TRPV1 Channel Activation. <i>Open Pain Journal</i> , 2010, 3, 68-81.	0.4	17
40	TRP ion channels: Proteins with conformational flexibility. <i>Channels</i> , 2019, 13, 207-226.	1.5	16
41	Identification and functional characterization of the promoter of the mouse sodium-activated sodium channel $Na_v1.7$ gene ( <i>Scn7a</i> ). <i>Journal of Neuroscience Research</i> , 2009, 87, 2509-2519.	1.3	15
42	A painful link between the TRPV1 channel and lysophosphatidic acid. <i>Life Sciences</i> , 2015, 125, 15-24.	2.0	15
43	Lysophosphatidic Acid and Ion Channels as Molecular Mediators of Pain. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 462.	1.4	15
44	Organic Toxins as Tools to Understand Ion Channel Mechanisms and Structure. <i>Current Topics in Medicinal Chemistry</i> , 2015, 15, 581-603.	1.0	15
45	Regulation of thermoTRPs by lipids. <i>Temperature</i> , 2017, 4, 24-40.	1.6	14
46	Dequalinium. <i>Journal of General Physiology</i> , 2003, 121, 37-47.	0.9	13
47	KV1.2 channels inactivate through a mechanism similar to C-type inactivation. <i>Journal of General Physiology</i> , 2020, 152, .	0.9	13
48	Lipid Modulation of Thermal Transient Receptor Potential Channels. <i>Current Topics in Membranes</i> , 2014, 74, 135-180.	0.5	11
49	Discovery and characterization of Hv1-type proton channels in reef-building corals. <i>ELife</i> , 2021, 10, .	2.8	10
50	Nerve Growth Factor Increases Sodium Current in Pancreatic $\beta$ Cells. <i>Journal of Membrane Biology</i> , 1996, 153, 53-58.	1.0	8
51	Ion Channels in Analgesia Research. <i>Methods in Molecular Biology</i> , 2010, 617, 223-236.	0.4	7
52	Activators of TRPM2: Getting it right. <i>Journal of General Physiology</i> , 2015, 145, 485-487.	0.9	6
53	TRPV4 activity regulates nuclear $Ca^{2+}$ and transcriptional functions of $\beta$ -catenin in a renal epithelial cell model. <i>Journal of Cellular Physiology</i> , 2021, 236, 3599-3614.	2.0	5
54	The helical character of the S6 segment of TRPV1 channels. <i>Channels</i> , 2009, 3, 311-313.	1.5	4

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55	TRPV1 in Cell Signaling: Molecular Mechanisms of Function and Modulation. , 2012, , 69-102.		1
56	Nociceptive TRP Channels and Sex Steroids. , 0, , .		1