

Viktorie Vlachova

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6521110/viktorie-vlachova-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

1,918

citations

24

h-index

42

g-index

69

ext. papers

2,152

ext. citations

4.8

avg, IF

4.35

L-index

#	Paper	IF	Citations
62	Odontoblast TRPC5 channels signal cold pain in teeth. <i>Science Advances</i> , 2021 , 7,	14.3	12
61	Transient receptor potential ankyrin 1 channel: An evolutionarily tuned thermosensor. <i>Physiological Research</i> , 2021 , 70, 363-381	2.1	0
60	Structural mechanism of heat-induced opening of a temperature-sensitive TRP channel. <i>Nature Structural and Molecular Biology</i> , 2021 , 28, 564-572	17.6	19
59	Proximal C-Terminus Serves as a Signaling Hub for TRPA1 Channel Regulation via Its Interacting Molecules and Supramolecular Complexes. <i>Frontiers in Physiology</i> , 2020 , 11, 189	4.6	8
58	Cytoplasmic Inter-Subunit Interface Controls Use-Dependence of Thermal Activation of TRPV3 Channel. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	8
57	Putative interaction site for membrane phospholipids controls activation of TRPA1 channel at physiological membrane potentials. <i>FEBS Journal</i> , 2019 , 286, 3664-3683	5.7	8
56	Human and Mouse TRPA1 Are Heat and Cold Sensors Differentially Tuned by Voltage. <i>Cells</i> , 2019 , 9,	7.9	17
55	Intracellular cavity of sensor domain controls allosteric gating of TRPA1 channel. <i>Science Signaling</i> , 2018 , 11,	8.8	21
54	Heat-resistant action potentials require TTX-resistant sodium channels Na1.8 and Na1.9. <i>Journal of General Physiology</i> , 2018 , 150, 1125-1144	3.4	10
53	Acute exposure to high-induction electromagnetic field affects activity of model peripheral sensory neurons. <i>Journal of Cellular and Molecular Medicine</i> , 2018 , 22, 1355-1362	5.6	12
52	The human transient receptor potential vanilloid 3 channel is sensitized via the ERK pathway. <i>Journal of Biological Chemistry</i> , 2017 , 292, 21083-21091	5.4	1
51	The First Extracellular Linker Is Important for Several Aspects of the Gating Mechanism of Human TRPA1 Channel. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 16	6.1	13
50	Molecular basis of TRPA1 regulation in nociceptive neurons. A review. <i>Physiological Research</i> , 2017 , 66, 425-439	2.1	31
49	N-terminal tetrapeptide T/SPLH motifs contribute to multimodal activation of human TRPA1 channel. <i>Scientific Reports</i> , 2016 , 6, 28700	4.9	15
48	Comprehensive thermal preference phenotyping in mice using a novel automated circular gradient assay. <i>Temperature</i> , 2016 , 3, 77-91	5.2	14
47	Interaction of a peptide derived from C-terminus of human TRPA1 channel with model membranes mimicking the inner leaflet of the plasma membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015 , 1848, 1147-56	3.8	7
46	Structural modeling and patch-clamp analysis of pain-related mutation TRPA1-N855S reveal inter-subunit salt bridges stabilizing the channel open state. <i>Neuropharmacology</i> , 2015 , 93, 294-307	5.5	17

45	Protons stabilize the closed conformation of gain-of-function mutants of the TRPV1 channel. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013 , 1833, 520-8	4.9	14
44	Amplified cold transduction in native nociceptors by M-channel inhibition. <i>Journal of Neuroscience</i> , 2013 , 33, 16627-41	6.6	33
43	Pore helix domain is critical to camphor sensitivity of transient receptor potential vanilloid 1 channel. <i>Anesthesiology</i> , 2012 , 116, 903-17	4.3	11
42	Ciguatoxins activate specific cold pain pathways to elicit burning pain from cooling. <i>EMBO Journal</i> , 2012 , 31, 3795-808	13	89
41	C-terminal acidic cluster is involved in Ca ²⁺ -induced regulation of human transient receptor potential ankyrin 1 channel. <i>Journal of Biological Chemistry</i> , 2012 , 287, 18067-77	5.4	34
40	A "cute" desensitization of TRPV1. <i>Current Pharmaceutical Biotechnology</i> , 2011 , 12, 122-9	2.6	60
39	The C-terminal basic residues contribute to the chemical- and voltage-dependent activation of TRPA1. <i>Biochemical Journal</i> , 2011 , 433, 197-204	3.8	31
38	Conserved residues within the putative S4-S5 region serve distinct functions among thermosensitive vanilloid transient receptor potential (TRPV) channels. <i>Journal of Biological Chemistry</i> , 2010 , 285, 41455-62	5.4	50
37	Essential role for the putative S6 inner pore region in the activation gating of the human TRPA1 channel. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009 , 1793, 1279-88	4.9	19
36	Ethanol inhibits cold-menthol receptor TRPM8 by modulating its interaction with membrane phosphatidylinositol 4,5-bisphosphate. <i>Journal of Neurochemistry</i> , 2007 , 100, 211-24	6	50
35	Contribution of the putative inner-pore region to the gating of the transient receptor potential vanilloid subtype 1 channel (TRPV1). <i>Journal of Neuroscience</i> , 2007 , 27, 7578-85	6.6	49
34	Functional changes in the vanilloid receptor subtype 1 channel during and after acute desensitization. <i>Neuroscience</i> , 2007 , 149, 144-54	3.9	48
33	ATP binding site on the C-terminus of the vanilloid receptor. <i>Archives of Biochemistry and Biophysics</i> , 2007 , 465, 389-98	4.1	13
32	Reducing and oxidizing agents sensitize heat-activated vanilloid receptor (TRPV1) current. <i>Molecular Pharmacology</i> , 2006 , 70, 383-94	4.3	88
31	Improved superfusion technique for rapid cooling or heating of cultured cells under patch-clamp conditions. <i>Journal of Neuroscience Methods</i> , 2006 , 151, 178-85	3	68
30	Gadolinium activates and sensitizes the vanilloid receptor TRPV1 through the external protonation sites. <i>Molecular and Cellular Neurosciences</i> , 2005 , 30, 207-17	4.8	51
29	Oxidizing reagent copper-o-phenanthroline is an open channel blocker of the vanilloid receptor TRPV1. <i>Neuropharmacology</i> , 2004 , 47, 273-85	5.5	22
28	Intracellular spermine decreases open probability of N-methyl-D-aspartate receptor channels. <i>Neuroscience</i> , 2004 , 125, 879-87	3.9	19

27	Vanilloid receptor TRPV1 is not activated by vanilloids applied intracellularly. <i>NeuroReport</i> , 2003 , 14, 1061-1065	1.7	10
26	Vanilloid receptor TRPV1 is not activated by vanilloids applied intracellularly. <i>NeuroReport</i> , 2003 , 14, 1061-5	1.7	28
25	Functional role of C-terminal cytoplasmic tail of rat vanilloid receptor 1. <i>Journal of Neuroscience</i> , 2003 , 23, 1340-50	6.6	161
24	The effects of excessive heat on heat-activated membrane currents in cultured dorsal root ganglia neurons from neonatal rat. <i>Pain</i> , 2002 , 95, 207-214	8	13
23	Reducing agent dithiothreitol facilitates activity of the capsaicin receptor VR-1. <i>Neuroscience</i> , 2002 , 111, 435-41	3.9	34
22	Modelling the consequences of receptor-G-protein promiscuity. <i>Trends in Pharmacological Sciences</i> , 2002 , 23, 171-6	13.2	30
21	The effects of capsaicin and acidity on currents generated by noxious heat in cultured neonatal rat dorsal root ganglion neurones. <i>Journal of Physiology</i> , 2001 , 533, 717-28	3.9	21
20	Dual effects of muscarinic M2 receptors on the synthesis of cyclic AMP in CHO cells: background and model. <i>Life Sciences</i> , 2001 , 68, 2501-10	6.8	11
19	Molecular and functional properties of synaptically activated NMDA receptors in neonatal motoneurons in rat spinal cord slices. <i>European Journal of Neuroscience</i> , 2000 , 12, 955-63	3.5	24
18	Axotomy-induced change in the properties of (S)-alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionate receptor channels in rat motoneurons. <i>Neuroscience</i> , 2000 , 99, 119-31	3.9	4
17	Temperature coefficient of membrane currents induced by noxious heat in sensory neurones in the rat. <i>Journal of Physiology</i> , 1999 , 517 (Pt 1), 181-92	3.9	77
16	Procaine excites nociceptors in cultures from dorsal root ganglion of the rat. <i>Neuroscience Letters</i> , 1999 , 263, 49-52	3.3	6
15	Properties of NMDA receptors in rat spinal cord motoneurons. <i>European Journal of Neuroscience</i> , 1999 , 11, 827-36	3.5	36
14	A technique for fast application of heated solutions of different composition to cultured neurones. <i>Journal of Neuroscience Methods</i> , 1998 , 82, 195-201	3	69
13	Inflammatory mediators at acidic pH activate capsaicin receptors in cultured sensory neurons from newborn rats. <i>Journal of Neurophysiology</i> , 1998 , 79, 670-6	3.2	93
12	Spontaneous openings of NMDA receptor channels in cultured rat hippocampal neurons. <i>European Journal of Neuroscience</i> , 1997 , 9, 1999-2008	3.5	18
11	Copper modulation of NMDA responses in mouse and rat cultured hippocampal neurons. <i>European Journal of Neuroscience</i> , 1996 , 8, 2257-64	3.5	81
10	G-protein modulation of glycine-resistant NMDA receptor desensitization in rat cultured hippocampal neurons. <i>European Journal of Neuroscience</i> , 1995 , 7, 1826-30	3.5	4

9	Membrane currents induced by L-homocysteic acid in mouse cultured hippocampal neurons. <i>Neuroscience</i> , 1992 , 48, 813-9	3.9	1
8	The effect of external pH changes on responses to excitatory amino acids in mouse hippocampal neurones. <i>Journal of Physiology</i> , 1990 , 430, 497-517	3.9	132
7	Single K ⁺ currents during differentiation of embryonic muscle cells in vitro. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1989 , 986, 146-50	3.8	2
6	Glutamine-induced membrane currents in cultured chick spinal cord neurons. <i>Neuroscience Letters</i> , 1988 , 90, 333-7	3.3	4
5	The action of excitatory amino acids on chick spinal cord neurones in culture. <i>Journal of Physiology</i> , 1987 , 386, 425-38	3.9	44
4	Voltage-dependent chloride channels with several substates in excised patches from mouse neuroblastoma cells. <i>Neuroscience Letters</i> , 1987 , 77, 298-302	3.3	18
3	Evidence that excitatory amino acids not only activate the receptor channel complex but also lead to use-dependent block. <i>Brain Research</i> , 1986 , 363, 148-51	3.7	24
2	Ionic currents in neuroblastoma clone E-7 cells. <i>Neuroscience Letters</i> , 1985 , 55, 197-201	3.3	2
1	Cobalt ions block L-glutamate and L-aspartate-induced currents in cultured neurons from embryonic chick spinal cord. <i>Neuroscience Letters</i> , 1985 , 61, 345-50	3.3	4