

Viktorie Vlachova

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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	Functional role of C-terminal cytoplasmic tail of rat vanilloid receptor 1. <i>Journal of Neuroscience</i> , 2003 , 23, 1340-50	6.6	161
61	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
60	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
59	Ciguatoxins activate specific cold pain pathways to elicit burning pain from cooling. <i>EMBO Journal</i> , 2012 , 31, 3795-808	13	89
58	Reducing and oxidizing agents sensitize heat-activated vanilloid receptor (TRPV1) current. <i>Molecular Pharmacology</i> , 2006 , 70, 383-94	4.3	88
57	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
56	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
55	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
54	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
53	A "cute" desensitization of TRPV1. <i>Current Pharmaceutical Biotechnology</i> , 2011 , 12, 122-9	2.6	60
52	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
51	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
50	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
49	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
48	Functional changes in the vanilloid receptor subtype 1 channel during and after acute desensitization. <i>Neuroscience</i> , 2007 , 149, 144-54	3.9	48
47	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
46	Properties of NMDA receptors in rat spinal cord motoneurons. <i>European Journal of Neuroscience</i> , 1999 , 11, 827-36	3.5	36

45	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
44	Reducing agent dithiothreitol facilitates activity of the capsaicin receptor VR-1. <i>Neuroscience</i> , 2002 , 111, 435-41	3.9	34
43	Amplified cold transduction in native nociceptors by M-channel inhibition. <i>Journal of Neuroscience</i> , 2013 , 33, 16627-41	6.6	33
42	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
41	Molecular basis of TRPA1 regulation in nociceptive neurons. A review. <i>Physiological Research</i> , 2017 , 66, 425-439	2.1	31
40	Modelling the consequences of receptor-G-protein promiscuity. <i>Trends in Pharmacological Sciences</i> , 2002 , 23, 171-6	13.2	30
39	Vanilloid receptor TRPV1 is not activated by vanilloids applied intracellularly. <i>NeuroReport</i> , 2003 , 14, 1061-5	1.7	28
38	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
37	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
36	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
35	Intracellular cavity of sensor domain controls allosteric gating of TRPA1 channel. <i>Science Signaling</i> , 2018 , 11,	8.8	21
34	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
33	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
32	Intracellular spermine decreases open probability of N-methyl-D-aspartate receptor channels. <i>Neuroscience</i> , 2004 , 125, 879-87	3.9	19
31	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
30	Spontaneous openings of NMDA receptor channels in cultured rat hippocampal neurons. <i>European Journal of Neuroscience</i> , 1997 , 9, 1999-2008	3.5	18
29	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
28	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

27	Human and Mouse TRPA1 Are Heat and Cold Sensors Differentially Tuned by Voltage. <i>Cells</i> , 2019 , 9,	7.9	17
26	N-terminal tetrapeptide T/SPLH motifs contribute to multimodal activation of human TRPA1 channel. <i>Scientific Reports</i> , 2016 , 6, 28700	4.9	15
25	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
24	Comprehensive thermal preference phenotyping in mice using a novel automated circular gradient assay. <i>Temperature</i> , 2016 , 3, 77-91	5.2	14
23	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
22	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
21	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
20	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
19	Odontoblast TRPC5 channels signal cold pain in teeth. <i>Science Advances</i> , 2021 , 7,	14.3	12
18	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
17	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
16	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
15	Vanilloid receptor TRPV1 is not activated by vanilloids applied intracellularly. <i>NeuroReport</i> , 2003 , 14, 1061-1065	1.7	10
14	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
13	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
12	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
11	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
10	Procaine excites nociceptors in cultures from dorsal root ganglion of the rat. <i>Neuroscience Letters</i> , 1999 , 263, 49-52	3.3	6

9	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
8	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
7	Glutamine-induced membrane currents in cultured chick spinal cord neurons. <i>Neuroscience Letters</i> , 1988 , 90, 333-7	3.3	4
6	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
5	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
4	Ionic currents in neuroblastoma clone E-7 cells. <i>Neuroscience Letters</i> , 1985 , 55, 197-201	3.3	2
3	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
2	Membrane currents induced by L-homocysteic acid in mouse cultured hippocampal neurons. <i>Neuroscience</i> , 1992 , 48, 813-9	3.9	1
1	Transient receptor potential ankyrin 1 channel: An evolutionarily tuned thermosensor. <i>Physiological Research</i> , 2021 , 70, 363-381	2.1	0