

Alexander V Zholos

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4464131/publications.pdf>

Version: 2024-02-01

91
papers

3,205
citations

117453

34
h-index

161609

54
g-index

94
all docs

94
docs citations

94
times ranked

3295
citing authors

#	ARTICLE	IF	CITATIONS
1	EXCITATION-CONTRACTION COUPLING IN GASTROINTESTINAL AND OTHER SMOOTH MUSCLES. Annual Review of Physiology, 1999, 61, 85-115.	5.6	220
2	Identification of ML204, a Novel Potent Antagonist That Selectively Modulates Native TRPC4/C5 Ion Channels. Journal of Biological Chemistry, 2011, 286, 33436-33446.	1.6	171
3	Deletion of TRPC4 and TRPC6 in Mice Impairs Smooth Muscle Contraction and Intestinal Motility In Vivo. Gastroenterology, 2009, 137, 1415-1424.	0.6	169
4	Prostate cell differentiation status determines transient receptor potential melastatin member 8 channel subcellular localization and function. Journal of Clinical Investigation, 2007, 117, 1647-1657.	3.9	166
5	Isoform-specific Inhibition of TRPC4 Channel by Phosphatidylinositol 4,5-Bisphosphate. Journal of Biological Chemistry, 2008, 283, 10026-10036.	1.6	150
6	Increased expression of bronchial epithelial transient receptor potential vanilloid 1 channels in patients with severe asthma. Journal of Allergy and Clinical Immunology, 2014, 133, 704-712.e4.	1.5	139
7	Transient receptor potential melastatin 8 channel involvement in the regulation of vascular tone. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H1868-H1877.	1.5	126
8	Ca ²⁺ -independent Phospholipase A ₂ -dependent Gating of TRPM8 by Lysophospholipids. Journal of Biological Chemistry, 2006, 281, 40174-40182.	1.6	115
9	Sensory TRP channels contribute differentially to skin inflammation and persistent itch. Nature Communications, 2017, 8, 980.	5.8	106
10	Muscarinic receptor subtypes controlling the cationic current in guinea-pig ileal smooth muscle. British Journal of Pharmacology, 1997, 122, 885-893.	2.7	104
11	Receptor-operated Ca ²⁺ entry mediated by TRPC3/TRPC6 proteins in rat prostate smooth muscle (PS1) cell line. Journal of Cellular Physiology, 2005, 204, 320-328.	2.0	96
12	TRPV4 Channel Signaling in Macrophages Promotes Gastrointestinal Motility via Direct Effects on Smooth Muscle Cells. Immunity, 2018, 49, 107-119.e4.	6.6	63
13	Voltage- and cold-dependent gating of single TRPM8 ion channels. Journal of General Physiology, 2011, 137, 173-195.	0.9	60
14	G α protein control of voltage dependence as well as gating of muscarinic metabotropic channels in guinea pig ileum. Journal of Physiology, 1994, 478, 195-202.	1.3	59
15	TRP Channels as Novel Targets for Endogenous Ligands: Focus on Endocannabinoids and Nociceptive Signalling. Current Neuropharmacology, 2018, 16, 137-150.	1.4	59
16	Activation of M2 muscarinic receptors in guinea-pig ileum opens cationic channels modulated by M3 muscarinic receptors. Life Sciences, 1997, 60, 1121-1128.	2.0	56
17	G-protein-gated TRP-like Cationic Channel Activated by Muscarinic Receptors. Journal of General Physiology, 2004, 123, 581-598.	0.9	54
18	Effects of G-protein-specific antibodies and G $\beta\gamma$ subunits on the muscarinic receptor-operated cation current in guinea-pig ileal smooth muscle cells. British Journal of Pharmacology, 2003, 139, 605-615.	2.7	47

#	ARTICLE	IF	CITATIONS
19	Multifunctional TRPV1 Ion Channels in Physiology and Pathology with Focus on the Brain, Vasculature, and Some Visceral Systems. <i>BioMed Research International</i> , 2019, 2019, 1-12.	0.9	47
20	Ca ²⁺ inhibition of inositol trisphosphate-induced Ca ²⁺ release in single smooth muscle cells of guinea-pig small intestine. <i>Journal of Physiology</i> , 1994, 481, 97-109.	1.3	46
21	Membrane ion channels as physiological targets for local Ca ²⁺ signalling. <i>Journal of Microscopy</i> , 1999, 196, 305-316.	0.8	46
22	TRPC7 Is a Receptor-Operated DAG-Activated Channel in Human Keratinocytes. <i>Journal of Investigative Dermatology</i> , 2006, 126, 1982-1993.	0.3	46
23	Effects of divalent cations on muscarinic receptor cationic current in smooth muscle from guinea-pig small intestine. <i>Journal of Physiology</i> , 1995, 486, 67-82.	1.3	45
24	Development of primary human nasal epithelial cell cultures for the study of cystic fibrosis pathophysiology. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 303, C1173-C1179.	2.1	45
25	TRPC5. <i>Handbook of Experimental Pharmacology</i> , 2014, 222, 129-156.	0.9	44
26	Rho kinase and protein kinase C involvement in vascular smooth muscle myofilament calcium sensitization in arteries from diabetic rats. <i>British Journal of Pharmacology</i> , 2010, 159, 1724-1731.	2.7	43
27	Regulation of Activity of Transient Receptor Potential Melastatin 8 (TRPM8) Channel by Its Short Isoforms. <i>Journal of Biological Chemistry</i> , 2012, 287, 2948-2962.	1.6	43
28	Potential-dependent inward currents in single isolated smooth muscle cells of the rat ileum. <i>Journal of Physiology</i> , 1992, 454, 549-571.	1.3	42
29	Phospholipase C, but not InsP ₃ or DAG, -dependent activation of the muscarinic receptor-operated cation current in guinea-pig ileal smooth muscle cells. <i>British Journal of Pharmacology</i> , 2004, 141, 23-36.	2.7	41
30	TRPM Channels in the Vasculature. <i>Advances in Experimental Medicine and Biology</i> , 2011, 704, 707-729.	0.8	40
31	A novel GTP-dependent mechanism of ileal muscarinic metabotropic channel desensitization. <i>British Journal of Pharmacology</i> , 1996, 119, 997-1005.	2.7	39
32	Ca ²⁺ - and Volume-sensitive Chloride Currents Are Differentially Regulated by Agonists and Store-operated Ca ²⁺ Entry. <i>Journal of General Physiology</i> , 2005, 125, 197-211.	0.9	38
33	TRP Channels in Respiratory Pathophysiology: the Role of Oxidative, Chemical Irritant and Temperature Stimuli. <i>Current Neuropharmacology</i> , 2015, 13, 279-291.	1.4	38
34	TRPV2 Channels Contribute to Stretch-Activated Cation Currents and Myogenic Constriction in Retinal Arterioles. , 2016, 57, 5637.		35
35	Pharmacology of transient receptor potential melastatin channels in the vasculature. <i>British Journal of Pharmacology</i> , 2010, 159, 1559-1571.	2.7	34
36	The inhibitory action of caffeine on calcium currents in isolated intestinal smooth muscle cells. <i>Pflugers Archiv European Journal of Physiology</i> , 1991, 419, 267-273.	1.3	30

#	ARTICLE	IF	CITATIONS
37	Modulation of calcium currents by G-proteins and adenosine receptors in myenteric neurones cultured from adult guinea-pig small intestine. <i>British Journal of Pharmacology</i> , 1995, 116, 1882-1886.	2.7	30
38	Regulation of TRP-like muscarinic cation current in gastrointestinal smooth muscle with special reference to PLC/InsP3/Ca ²⁺ system. <i>Acta Pharmacologica Sinica</i> , 2006, 27, 833-842.	2.8	30
39	Regulation of muscarinic cationic current in myocytes from guinea-pig ileum by intracellular Ca ²⁺ release: a central role of inositol 1,4,5-trisphosphate receptors. <i>Cell Calcium</i> , 2004, 36, 367-386.	1.1	28
40	Potassium channels of myenteric neurons in guinea-pig small intestine. <i>Neuroscience</i> , 1999, 89, 603-618.	1.1	25
41	Properties of the late transient outward current in isolated intestinal smooth muscle cells of the guinea-pig. <i>Journal of Physiology</i> , 1991, 443, 555-574.	1.3	24
42	Muscarinic cation current and suppression of Ca ²⁺ current in guinea pig ileal smooth muscle cells. <i>European Journal of Pharmacology</i> , 1998, 346, 323-330.	1.7	23
43	Muscarinic receptor-activated cationic channels in murine ileal myocytes. <i>British Journal of Pharmacology</i> , 2006, 149, 179-187.	2.7	23
44	Ion channel mechanisms of rat tail artery contraction-relaxation by menthol involving, respectively, TRPM8 activation and L-type Ca ²⁺ channel inhibition. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 311, H1416-H1430.	1.5	20
45	A potential-dependent fast outward current in single smooth muscle cells isolated from the newborn rat ileum. <i>Journal of Physiology</i> , 1992, 454, 573-589.	1.3	18
46	Functional and Modeling Studies of the Transmembrane Region of the TRPM8 Channel. <i>Biophysical Journal</i> , 2015, 109, 1840-1851.	0.2	18
47	Voltage-dependent inhibition of the muscarinic cationic current in guinea-pig ileal cells by SK&F 96365. <i>British Journal of Pharmacology</i> , 2000, 129, 695-702.	2.7	16
48	Some properties of Ca ²⁺ -induced Ca ²⁺ release mechanism in single visceral smooth muscle cell of the guinea-pig. <i>Journal of Physiology</i> , 1992, 457, 1-25.	1.3	15
49	Short Isoforms of the Cold Receptor TRPM8 Inhibit Channel Gating by Mimicking Heat Action Rather than Chemical Inhibitors. <i>Journal of Biological Chemistry</i> , 2012, 287, 2963-2970.	1.6	15
50	Inhalation anaesthetic isoflurane inhibits the muscarinic cation current and carbachol-induced gastrointestinal smooth muscle contractions. <i>European Journal of Pharmacology</i> , 2018, 820, 39-44.	1.7	15
51	Sodium conductance in cultured myenteric AH-type neurons from guinea-pig small intestine. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2002, 96, 93-102.	1.4	13
52	Muscarinic Cholinergic Excitation of Smooth Muscle: Signal Transduction and Single Cationic Channel Properties. <i>Neurophysiology</i> , 2003, 35, 283-301.	0.2	13
53	Plasmonic gold nanoparticles possess the ability to open potassium channels in rat thoracic aorta smooth muscles in a remote control manner. <i>Vascular Pharmacology</i> , 2015, 72, 190-196.	1.0	13
54	C 60 fullerenes disrupt cellular signalling leading to TRPC4 and TRPC6 channels opening by the activation of muscarinic receptors and G-proteins in small intestinal smooth muscles. <i>Cellular Signalling</i> , 2018, 43, 40-46.	1.7	13

#	ARTICLE	IF	CITATIONS
55	C60 fullerenes selectively inhibit BKCa but not Kv channels in pulmonary artery smooth muscle cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 19, 1-11.	1.7	13
56	Effects of polyamines on the muscarinic receptor-operated cation current in guinea-pig ileal smooth muscle myocytes. <i>British Journal of Pharmacology</i> , 2004, 143, 968-975.	2.7	12
57	TRP Channels in Vascular Disorders. <i>Current Topics in Medicinal Chemistry</i> , 2013, 13, 295-309.	1.0	11
58	Patch-clamp recording in myenteric neurons of guinea pig small intestine. <i>American Journal of Physiology - Renal Physiology</i> , 1992, 262, G1074-G1078.	1.6	10
59	Potential Synergy: Voltage-Driven Steps in Receptor-G Protein Coupling and Beyond. <i>Science Signaling</i> , 2003, 2003, pe52-pe52.	1.6	10
60	Post-traumatic recovery of muscle soleus in rats is improved via synergistic effect of C60 fullerene and TRPM8 agonist menthol. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 467-478.	1.6	10
61	Liposomal quercetin potentiates maxi-K channel openings in smooth muscles and restores its activity after oxidative stress. <i>Journal of Liposome Research</i> , 2019, 29, 94-101.	1.5	9
62	Suppression of mICAT in Mouse Small Intestinal Myocytes by General Anaesthetic Ketamine and its Recovery by TRPC4 Agonist (-)-englerin A. <i>Frontiers in Pharmacology</i> , 2020, 11, 594882.	1.6	9
63	Muscarinic effects on ion channels in smooth muscle cells. <i>Neurophysiology</i> , 1999, 31, 173-187.	0.2	7
64	Membrane currents in cultured human intestinal smooth muscle cells. <i>Journal of Physiology</i> , 2000, 528, 521-537.	1.3	7
65	Curcuminoids and Novel Opportunities for the Treatment of Alzheimer's Disease: Which Molecules are Actually Effective?. <i>Current Molecular Pharmacology</i> , 2019, 12, 12-26.	0.7	7
66	Effects of protons on muscarinic receptor cationic current in single visceral smooth muscle cells. <i>American Journal of Physiology - Renal Physiology</i> , 1997, 272, G215-G223.	1.6	6
67	Functional and pharmacological characterization of volume-regulated anion channels in human normal and cystic fibrosis bronchial and nasal epithelial cells. <i>European Journal of Pharmacology</i> , 2014, 740, 183-191.	1.7	6
68	Effect of intracellular Ca ²⁺ on muscarinic cationic current in guinea pig ileal smooth muscle cells. <i>Neurophysiology</i> , 2000, 32, 198-199.	0.2	5
69	Species-Related Differences in the Properties of TRPC4 Channels in Intestinal Myocytes of Rodents. <i>Neurophysiology</i> , 2016, 48, 220-229.	0.2	5
70	Cholinergic excitation of smooth muscles: Multiple signaling pathways linking M2 and M3 muscarinic receptors to cationic channels. <i>Neurophysiology</i> , 2004, 36, 398-406.	0.2	4
71	THE ROLE OF TRPV4 CATION CHANNELS IN THE REGULATION OF PHENYLEPHRINE-INDUCED CONTRACTION OF RAT PULMONARY ARTERY. <i>Fiziologicheskii Zhurnal</i> , 2016, 62, 79-86.	0.2	4
72	Apamin: A highly selective and effective blocker of calcium-dependent potassium conductance. <i>Neurophysiology</i> , 1988, 20, 590-600.	0.2	2

#	ARTICLE	IF	CITATIONS
73	Carbachol-Activated Monovalent Cation-Selective Channels in the Murine Small Intestine. <i>Neurophysiology</i> , 2003, 35, 316.	0.2	2
74	Mechanisms of calcium signaling in smooth muscle cells explored with fluorescence confocal imaging. <i>Neurophysiology</i> , 2004, 36, 407-417.	0.2	2
75	Peculiarities of phospholipase C-dependent release of Ca^{2+} from intracellular stores upon activation of choline and purine receptors in myocytes of the guinea-pig small intestine. <i>Neurophysiology</i> , 2006, 38, 1-8.	0.2	2
76	Single-Walled Carbon Nanotubes Inhibit TRPC4-Mediated Muscarinic Cation Current in Mouse Ileal Myocytes. <i>Nanomaterials</i> , 2021, 11, 3410.	1.9	2
77	Electrical properties and transmembrane ionic current of single smooth muscle cells. <i>Bulletin of Experimental Biology and Medicine</i> , 1986, 101, 259-263.	0.3	1
78	ATP-Induced Calcium Release from the Intracellular Calcium Store in Guinea-Pig Ileal Myocytes. <i>Neurophysiology</i> , 2003, 35, 329.	0.2	1
79	Properties of average-conductance cationic channels that mediate cholinergic excitation of guinea-pig ileum myocytes under conditions close to the physiological norm. <i>Neurophysiology</i> , 2004, 36, 247-253.	0.2	1
80	Critical Role of Pertussis Toxin Sensitive G Proteins in the Activation of TRPC4 and TRPC5 Channels. <i>Biophysical Journal</i> , 2010, 98, 326a-327a.	0.2	1
81	Pilot testing for long-term impact of glycerol-induced acute kidney injury on oxalate homeostasis in rats. <i>Ukrainian Journal of Nephrology and Dialysis</i> , 2022, , 15-24.	0.0	1
82	Muscarinic receptors activating cationic channels in smooth muscle. <i>Life Sciences</i> , 1997, 60, 1186.	2.0	0
83	Voltage-dependent inhibition of muscarinic cationic current in guinea pig ileal cells by the blocker SK&F 96365. <i>Neurophysiology</i> , 2000, 32, 216-216.	0.2	0
84	The 47th Annual Meeting of the American Biophysical Society. <i>Neurophysiology</i> , 2003, 35, 149-151.	0.2	0
85	Modulation of Muscarinic Cation Current by Intracellular Ca^{2+} -Release: a Central Role of the Inositol 1,4,5-Trisphosphate Receptors. <i>Neurophysiology</i> , 2003, 35, 320.	0.2	0
86	Modulation of the Muscarinic Cation Current by Intracellular Calcium Ions in Guinea-Pig Ileal Myocytes. <i>Neurophysiology</i> , 2003, 35, 347.	0.2	0
87	Reply to "Letter to the editor: "Is menthol- or icilin-induced vasodilation mediated by the activation of TRPM8?" American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H888-H888.	1.5	0
88	TRPM8 Cation Channel. Effects of Voltage, Cold and Menthol on Single-Channel Gating. <i>Biophysical Journal</i> , 2010, 98, 227a.	0.2	0
89	TRPs in Respiratory Disorders. , 2015, , 483-500.		0
90	Electrophysiological characterization of the activating action of a novel liposomal nitric oxide carrier on Maxi-K channels in pulmonary artery smooth muscle cells. <i>Journal of Liposome Research</i> , 2021, 31, 399-408.	1.5	0

#	ARTICLE	IF	CITATIONS
91	Commonly-Used General Anesthetic Causes Gastrointestinal Tract Motility Complications. , 2018, , .		0