

Felix Viana

List of Publications by Year in descending order

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85
papers

6,266
citations

57719

44
h-index

69214

77
g-index

86
all docs

86
docs citations

86
times ranked

5378
citing authors

#	ARTICLE	IF	CITATIONS
1	TRPA1 channels mediate acute neurogenic inflammation and pain produced by bacterial endotoxins. <i>Nature Communications</i> , 2014, 5, 3125.	5.8	361
2	Specificity of cold thermotransduction is determined by differential ionic channel expression. <i>Nature Neuroscience</i> , 2002, 5, 254-260.	7.1	316
3	Ocular surface wetness is regulated by TRPM8-dependent cold thermoreceptors of the cornea. <i>Nature Medicine</i> , 2010, 16, 1396-1399.	15.2	270
4	ION CHANNELS IN VASCULAR ENDOTHELIUM. <i>Annual Review of Physiology</i> , 1997, 59, 145-170.	5.6	257
5	Nicotine activates the chemosensory cation channel TRPA1. <i>Nature Neuroscience</i> , 2009, 12, 1293-1299.	7.1	214
6	Attenuation of thermal nociception and hyperalgesia by VR1 blockers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 2374-2379.	3.3	178
7	Variable Threshold of Trigeminal Cold-Thermosensitive Neurons Is Determined by a Balance between TRPM8 and Kv1 Potassium Channels. <i>Journal of Neuroscience</i> , 2009, 29, 3120-3131.	1.7	169
8	Modulation of neonatal rat hypoglossal motoneuron excitability by serotonin. <i>Neuroscience Letters</i> , 1992, 143, 164-168.	1.0	168
9	Contribution of TRPM8 Channels to Cold Transduction in Primary Sensory Neurons and Peripheral Nerve Terminals. <i>Journal of Neuroscience</i> , 2006, 26, 12512-12525.	1.7	156
10	Chemosensory Properties of the Trigeminal System. <i>ACS Chemical Neuroscience</i> , 2011, 2, 38-50.	1.7	149
11	TRPA1 channels: molecular sentinels of cellular stress and tissue damage. <i>Journal of Physiology</i> , 2016, 594, 4151-4169.	1.3	149
12	TRPA1 Channels Mediate Cold Temperature Sensing in Mammalian Vagal Sensory Neurons: Pharmacological and Genetic Evidence. <i>Journal of Neuroscience</i> , 2008, 28, 7863-7875.	1.7	148
13	Inhibition of a background potassium channel by Gq protein \hat{A} -subunits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3422-3427.	3.3	128
14	Hypoosmotic and pressure-induced membrane stretch activate TRPC5 channels. <i>Journal of Physiology</i> , 2008, 586, 5633-5649.	1.3	123
15	Calcium conductances and their role in the firing behavior of neonatal rat hypoglossal motoneurons. <i>Journal of Neurophysiology</i> , 1993, 69, 2137-2149.	0.9	117
16	Molecular and Cellular Limits to Somatosensory Specificity. <i>Molecular Pain</i> , 2008, 4, 1744-8069-4-14.	1.0	116
17	Inhibition by mibefradil, a novel calcium channel antagonist, of Ca^{2+} - and volume-activated Cl^{-} channels in macrovascular endothelial cells. <i>British Journal of Pharmacology</i> , 1997, 121, 547-555.	2.7	115
18	Plasma membranes as heat stress sensors: From lipid-controlled molecular switches to therapeutic applications. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 1594-1618.	1.4	115

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19	TRPM8 is a neuronal osmosensor that regulates eye blinking in mice. <i>Nature Communications</i> , 2015, 6, 7150.	5.8	111
20	Lipid Raft Segregation Modulates TRPM8 Channel Activity. <i>Journal of Biological Chemistry</i> , 2009, 284, 9215-9224.	1.6	104
21	Transient Receptor Potential Channels in Sensory Neurons Are Targets of the Antimycotic Agent Clotrimazole. <i>Journal of Neuroscience</i> , 2008, 28, 576-586.	1.7	103
22	Postnatal changes in rat hypoglossal motoneuron membrane properties. <i>Neuroscience</i> , 1994, 59, 131-148.	1.1	102
23	Mibefradil (Ro 40m5967) blocks multiple types of voltage-gated calcium channels in cultured rat spinal motoneurons. <i>Cell Calcium</i> , 1997, 22, 299-311.	1.1	100
24	Bidirectional shifts of TRPM8 channel gating by temperature and chemical agents modulate the cold sensitivity of mammalian thermoreceptors. <i>Journal of Physiology</i> , 2007, 581, 155-174.	1.3	99
25	Converting cold into pain. <i>Experimental Brain Research</i> , 2009, 196, 13-30.	0.7	99
26	Volume-activated Cl ⁻ currents in different mammalian non-excitabile cell types. <i>Pflugers Archiv European Journal of Physiology</i> , 1994, 428, 364-371.	1.3	94
27	Neuromodulation of hypoglossal motoneurons: cellular and developmental mechanisms. <i>Respiration Physiology</i> , 1997, 110, 139-150.	2.8	86
28	A Role of the Transient Receptor Potential Domain of Vanilloid Receptor I in Channel Gating. <i>Journal of Neuroscience</i> , 2007, 27, 11641-11650.	1.7	82
29	Ion Channel Profile of TRPM8 Cold Receptors Reveals a Role of TASK-3 Potassium Channels in Thermosensation. <i>Cell Reports</i> , 2014, 8, 1571-1582.	2.9	81
30	Identification of molecular determinants of channel gating in the transient receptor potential box of vanilloid receptor I. <i>FASEB Journal</i> , 2008, 22, 3298-3309.	0.2	79
31	TRPM8 Ion Channels Differentially Modulate Proliferation and Cell Cycle Distribution of Normal and Cancer Prostate Cells. <i>PLoS ONE</i> , 2012, 7, e51825.	1.1	76
32	Modulation of High Voltage-Activated Calcium Channels by Somatostatin in Acutely Isolated Rat Amygdaloid Neurons. <i>Journal of Neuroscience</i> , 1996, 16, 6000-6011.	1.7	71
33	Development of hypoglossal motoneurons. <i>Journal of Applied Physiology</i> , 1996, 81, 1039-1048.	1.2	70
34	Repetitive firing properties of developing rat brainstem motoneurons. <i>Journal of Physiology</i> , 1995, 486, 745-761.	1.3	69
35	The contribution of TRPM8 channels to cold sensing in mammalian neurones. <i>Journal of Physiology</i> , 2005, 567, 415-426.	1.3	69
36	TRPM8. <i>Handbook of Experimental Pharmacology</i> , 2014, 222, 547-579.	0.9	67

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37	Swelling-activated calcium signalling in cultured mouse primary sensory neurons. <i>European Journal of Neuroscience</i> , 2001, 13, 722-734.	1.2	66
38	Deletion of the Cold Thermoreceptor TRPM8 Increases Heat Loss and Food Intake Leading to Reduced Body Temperature and Obesity in Mice. <i>Journal of Neuroscience</i> , 2018, 38, 3643-3656.	1.7	65
39	Double- and triple-labeling of functionally characterized central neurons projecting to peripheral targets studied in vitro. <i>Neuroscience</i> , 1990, 38, 829-841.	1.1	64
40	TRPA1 channels: Novel targets of 1,4-dihydropyridines. <i>Channels</i> , 2008, 2, 429-438.	1.5	64
41	N-Glycosylation of TRPM8 Ion Channels Modulates Temperature Sensitivity of Cold Thermoreceptor Neurons. <i>Journal of Biological Chemistry</i> , 2012, 287, 18218-18229.	1.6	64
42	Characteristics and physiological role of hyperpolarization activated currents in mouse cold thermoreceptors. <i>Journal of Physiology</i> , 2009, 587, 1961-1976.	1.3	57
43	Differential Role of the Menthol-Binding Residue Y745 in the Antagonism of Thermally Gated TRPM8 Channels. <i>Molecular Pain</i> , 2009, 5, 1744-8069-5-62.	1.0	54
44	New Insight in Cold Pain: Role of Ion Channels, Modulation, and Clinical Perspectives. <i>Journal of Neuroscience</i> , 2016, 36, 11435-11439.	1.7	52
45	Piezo2 Mediates Low-Threshold Mechanically Evoked Pain in the Cornea. <i>Journal of Neuroscience</i> , 2020, 40, 8976-8993.	1.7	49
46	Morphological and functional changes in TRPM8-expressing corneal cold thermoreceptor neurons during aging and their impact on tearing in mice. <i>Journal of Comparative Neurology</i> , 2018, 526, 1859-1874.	0.9	47
47	Pharmacological and functional properties of TRPM8 channels in prostate tumor cells. <i>Pflugers Archiv European Journal of Physiology</i> , 2011, 461, 99-114.	1.3	41
48	Postnatal Changes in Membrane Properties of Mice Trigeminal Ganglion Neurons. <i>Journal of Neurophysiology</i> , 2002, 87, 2398-2407.	0.9	40
49	Expression of the cold thermoreceptor TRPM8 in rodent brain thermoregulatory circuits. <i>Journal of Comparative Neurology</i> , 2021, 529, 234-256.	0.9	39
50	Calcium signalling through nucleotide receptor P2Y2 in cultured human vascular endothelium. <i>Cell Calcium</i> , 1998, 24, 117-127.	1.1	38
51	Membrane-ethered peptides patterned after the TRP domain (TRPducins) selectively inhibit TRPV1 channel activity. <i>FASEB Journal</i> , 2011, 25, 1628-1640.	0.2	37
52	Calcium-activated potassium channels in cultured human endothelial cells are not directly modulated by nitric oxide. <i>Cell Calcium</i> , 1997, 21, 291-300.	1.1	36
53	Repetitive firing properties of phrenic motoneurons in the cat. <i>Journal of Neurophysiology</i> , 1988, 60, 687-702.	0.9	35
54	Volume-activated chloride currents are not correlated with P-glycoprotein expression. <i>Biochemical Journal</i> , 1995, 307, 713-718.	1.7	33

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55	The Immunosuppressant Macrolide Tacrolimus Activates Cold-Sensing TRPM8 Channels. <i>Journal of Neuroscience</i> , 2019, 39, 949-969.	1.7	33
56	Transcriptional Control of Cholesterol Biosynthesis in Schwann Cells by Axonal Neuregulin 1. <i>Journal of Biological Chemistry</i> , 2007, 282, 28768-28778.	1.6	32
57	TRPA1 modulators in preclinical development. <i>Expert Opinion on Therapeutic Patents</i> , 2009, 19, 1787-1799.	2.4	32
58	Postnatal Development of Hypoglossal Motoneuron Intrinsic Properties. <i>Advances in Experimental Medicine and Biology</i> , 1995, 381, 63-71.	0.8	32
59	GAP43 stimulates inositol trisphosphate-mediated calcium release in response to hypotonicity. <i>EMBO Journal</i> , 2003, 22, 3004-3014.	3.5	31
60	Role of <i>h</i> in the firing pattern of mammalian cold thermoreceptor endings. <i>Journal of Neurophysiology</i> , 2012, 108, 3009-3023.	0.9	31
61	Cold sensitivity in axotomized fibers of experimental neuromas in mice. <i>Pain</i> , 2006, 120, 24-35.	2.0	29
62	Bidirectional Modulation of Thermal and Chemical Sensitivity of TRPM8 Channels by the Initial Region of the N-terminal Domain. <i>Journal of Biological Chemistry</i> , 2014, 289, 21828-21843.	1.6	28
63	Effects of thyrotropin-releasing hormone on rat motoneurons are mediated by G proteins. <i>Brain Research</i> , 1994, 668, 220-229.	1.1	27
64	Drug-transport and volume-activated chloride channel functions in human erythroleukemia cells: Relation to expression level of P-glycoprotein. <i>Journal of Membrane Biology</i> , 1995, 145, 87-98.	1.0	27
65	The Emerging Pharmacology of TRPM8 Channels: Hidden Therapeutic Potential Underneath a Cold Surface. <i>Current Pharmaceutical Biotechnology</i> , 2011, 12, 54-67.	0.9	27
66	Differential Thermosensitivity of Sensory Neurons in the Guinea Pig Trigeminal Ganglion. <i>Journal of Neurophysiology</i> , 2003, 90, 2219-2231.	0.9	26
67	Comparative Effects of the Nonsteroidal Anti-inflammatory Drug Nepafenac on Corneal Sensory Nerve Fibers Responding to Chemical Irritation. , 2007, 48, 182.		26
68	Mammalian cold TRP channels: impact on thermoregulation and energy homeostasis. <i>Pflugers Archiv European Journal of Physiology</i> , 2018, 470, 761-777.	1.3	26
69	Lack of correlation between mdr-1 expression and volume-activation of chloride-currents in rat colon cancer cells. <i>Pflugers Archiv European Journal of Physiology</i> , 1995, 430, 296-298.	1.3	22
70	The Influence of Cold Temperature on Cellular Excitability of Hippocampal Networks. <i>PLoS ONE</i> , 2012, 7, e52475.	1.1	22
71	Origins of direction selectivity in the primate retina. <i>Nature Communications</i> , 2022, 13, .	5.8	19
72	Nociceptors: thermal allodynia and thermal pain. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2018, 156, 103-119.	1.0	18

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73	Targeting TRPM8 for Pain Relief. <i>Open Pain Journal</i> , 2013, 6, 154-164.	0.4	18
74	TRPA1 Channels Mediate Human Gingival Fibroblast Response to Phenytoin. <i>Journal of Dental Research</i> , 2017, 96, 832-839.	2.5	14
75	Electrophysiological determination of the axonal projections of single dorsal respiratory group neurons to the cervical spinal cord of cat. <i>Brain Research</i> , 1988, 454, 31-39.	1.1	13
76	Constitutive Phosphorylation as a Key Regulator of TRPM8 Channel Function. <i>Journal of Neuroscience</i> , 2021, 41, 8475-8493.	1.7	11
77	Projections and terminations of single respiratory axons in the cervical spinal cord of cat. <i>Brain Research</i> , 1988, 449, 201-212.	1.1	8
78	Thyrotropin-Releasing Hormone Causes Excitation of Rat Hypoglossal Motoneurons In Vitro. <i>Sleep</i> , 1993, 16, S49-S52.	0.6	8
79	Heat Pain and Cold Pain. , 0, , 179-199.		6
80	Understanding the mechanisms of cold-evoked pain in humans. <i>Pain</i> , 2009, 147, 7-8.	2.0	4
81	Funny currents are becoming serious players in nociceptor's sensitization. <i>Journal of Physiology</i> , 2008, 586, 5841-5842.	1.3	3
82	Potassium channels shape and brake primary sensory neurone excitability. <i>Journal of Physiology</i> , 2008, 586, 5039-5040.	1.3	1
83	Cover Image, Volume 526, Issue 11. <i>Journal of Comparative Neurology</i> , 2018, 526, C1-C1.	0.9	0
84	TRPA1 channels: Molecular sentinels of cellular stress and tissue damage. <i>Toxicon</i> , 2018, 149, 91.	0.8	0
85	Detecting Warm Temperatures Is a Cool Kind of Thing. <i>Neuron</i> , 2020, 106, 712-714.	3.8	0