Felix Viana

List of Publications by Year in Descending Order

83 papers	5,309 citations	42 h-index	72 g-index
86 ext. papers	5,803 ext. citations	6.4 avg, IF	5.6 L-index

#	Paper	IF	Citations
83	Expression of the cold thermoreceptor TRPM8 in rodent brain thermoregulatory circuits. *Journal of Comparative Neurology*, **2021**, 529, 234-256	3.4	20
82	Constitutive Phosphorylation as a Key Regulator of TRPM8 Channel Function. *Journal of Neuroscience*, **2021**, 41, 8475-8493	6.6	2
81	Heat Pain and Cold Pain **2020**, 178-199		3
80	Piezo2 Mediates Low-Threshold Mechanically Evoked Pain in the Cornea. *Journal of Neuroscience*, **2020**, 40, 8976-8993	6.6	22
79	Detecting Warm Temperatures Is a Cool Kind of Thing. *Neuron*, **2020**, 106, 712-714	13.9	
78	The Immunosuppressant Macrolide Tacrolimus Activates Cold-Sensing TRPM8 Channels. *Journal of Neuroscience*, **2019**, 39, 949-969	6.6	19
77	Morphological and functional changes in TRPM8-expressing corneal cold thermoreceptor neurons during aging and their impact on tearing in mice. *Journal of Comparative Neurology*, **2018**, 526, 1859-1874	3.4	28
76	Mammalian cold TRP channels: impact on thermoregulation and energy homeostasis. *Pflugers Archiv European Journal of Physiology*, **2018**, 470, 761-777	4.6	15
75	Deletion of the Cold Thermoreceptor TRPM8 Increases Heat Loss and Food Intake Leading to Reduced Body Temperature and Obesity in Mice. *Journal of Neuroscience*, **2018**, 38, 3643-3656	6.6	33
74	Cover Image, Volume 526, Issue 11. *Journal of Comparative Neurology*, **2018**, 526, C1-C1	3.4	
73	Nociceptors: thermal allodynia and thermal pain. *Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn*, **2018**, 156, 103-119	3	12
72	TRPA1 Channels Mediate Human Gingival Fibroblast Response to Phenytoin. *Journal of Dental Research*, **2017**, 96, 832-839	8.1	12
71	New Insight in Cold Pain: Role of Ion Channels, Modulation, and Clinical Perspectives. *Journal of Neuroscience*, **2016**, 36, 11435-11439	6.6	34
70	TRPA1 channels: molecular sentinels of cellular stress and tissue damage. *Journal of Physiology*, **2016**, 594, 4151-69	3.9	114
69	TRPM8 is a neuronal osmosensor that regulates eye blinking in mice. *Nature Communications*, **2015**, 6, 7150	17.4	82
68	TRPA1 channels mediate acute neurogenic inflammation and pain produced by bacterial endotoxins. *Nature Communications*, **2014**, 5, 3125	17.4	280
67	Bidirectional modulation of thermal and chemical sensitivity of TRPM8 channels by the initial region of the N-terminal domain. *Journal of Biological Chemistry*, **2014**, 289, 21828-43	5.4	21

66	Plasma membranes as heat stress sensors: from lipid-controlled molecular switches to therapeutic applications. *Biochimica Et Biophysica Acta - Biomembranes*, **2014**, 1838, 1594-618	3.8	86
65	TRPM8. *Handbook of Experimental Pharmacology*, **2014**, 222, 547-79	3.2	56
64	Ion channel profile of TRPM8 cold receptors reveals a role of TASK-3 potassium channels in thermosensation. *Cell Reports*, **2014**, 8, 1571-82	10.6	62
63	Targeting TRPM8 for Pain Relief. *Open Pain Journal*, **2013**, 6, 154-164	0.3	15
62	N-glycosylation of TRPM8 ion channels modulates temperature sensitivity of cold thermoreceptor neurons. *Journal of Biological Chemistry*, **2012**, 287, 18218-29	5.4	57
61	Role of Ih in the firing pattern of mammalian cold thermoreceptor endings. *Journal of Neurophysiology*, **2012**, 108, 3009-23	3.2	27
60	TRPM8 ion channels differentially modulate proliferation and cell cycle distribution of normal and cancer prostate cells. *PLoS ONE*, **2012**, 7, e51825	3.7	63
59	The influence of cold temperature on cellular excitability of hippocampal networks. *PLoS ONE*, **2012**, 7, e52475	3.7	18
58	Chemosensory properties of the trigeminal system. *ACS Chemical Neuroscience*, **2011**, 2, 38-50	5.7	96
57	The emerging pharmacology of TRPM8 channels: hidden therapeutic potential underneath a cold surface. *Current Pharmaceutical Biotechnology*, **2011**, 12, 54-67	2.6	23
56	Pharmacological and functional properties of TRPM8 channels in prostate tumor cells. *Pflugers Archiv European Journal of Physiology*, **2011**, 461, 99-114	4.6	32
55	Membrane-tethered peptides patterned after the TRP domain (TRPducins) selectively inhibit TRPV1 channel activity. *FASEB Journal*, **2011**, 25, 1628-40	0.9	34
54	Ocular surface wetness is regulated by TRPM8-dependent cold thermoreceptors of the cornea. *Nature Medicine*, **2010**, 16, 1396-9	50.5	214
53	Variable threshold of trigeminal cold-thermosensitive neurons is determined by a balance between TRPM8 and Kv1 potassium channels. *Journal of Neuroscience*, **2009**, 29, 3120-31	6.6	146
52	Understanding the mechanisms of cold-evoked pain in humans. *Pain*, **2009**, 147, 7-8	8	4
51	Converting cold into pain. *Experimental Brain Research*, **2009**, 196, 13-30	2.3	92
50	Characteristics and physiological role of hyperpolarization activated currents in mouse cold thermoreceptors. *Journal of Physiology*, **2009**, 587, 1961-76	3.9	49
49	Nicotine activates the chemosensory cation channel TRPA1. *Nature Neuroscience*, **2009**, 12, 1293-9	25.5	186

48	Differential role of the menthol-binding residue Y745 in the antagonism of thermally gated TRPM8 channels. *Molecular Pain*, **2009**, 5, 62	3.4	44
47	Lipid raft segregation modulates TRPM8 channel activity. *Journal of Biological Chemistry*, **2009**, 284, 9215-24	5.4	87
46	TRPA1 modulators in preclinical development. *Expert Opinion on Therapeutic Patents*, **2009**, 19, 1787-99	6.8	28
45	Hypoosmotic- and pressure-induced membrane stretch activate TRPC5 channels. *Journal of Physiology*, **2008**, 586, 5633-49	3.9	95
44	Potassium channels shape and brake primary sensory neurone excitability. *Journal of Physiology*, **2008**, 586, 5039-40	3.9	1
43	Funny currents are becoming serious players in nociceptor V sensitization. *Journal of Physiology*, **2008**, 586, 5841-2	3.9	2
42	Molecular and cellular limits to somatosensory specificity. *Molecular Pain*, **2008**, 4, 14	3.4	99
41	TRPA1 channels: novel targets of 1,4-dihydropyridines. *Channels*, **2008**, 2, 429-38	3	57
40	Identification of molecular determinants of channel gating in the transient receptor potential box of vanilloid receptor I. *FASEB Journal*, **2008**, 22, 3298-309	0.9	68
39	Transient receptor potential channels in sensory neurons are targets of the antimycotic agent clotrimazole. *Journal of Neuroscience*, **2008**, 28, 576-86	6.6	96
38	TRPA1 channels mediate cold temperature sensing in mammalian vagal sensory neurons: pharmacological and genetic evidence. *Journal of Neuroscience*, **2008**, 28, 7863-75	6.6	130
37	Comparative effects of the nonsteroidal anti-inflammatory drug nepafenac on corneal sensory nerve fibers responding to chemical irritation. *Investigative Ophthalmology and Visual Science*, **2007**, 48, 182-8		24
36	Bidirectional shifts of TRPM8 channel gating by temperature and chemical agents modulate the cold sensitivity of mammalian thermoreceptors. *Journal of Physiology*, **2007**, 581, 155-74	3.9	89
35	Transcriptional control of cholesterol biosynthesis in Schwann cells by axonal neuregulin 1. *Journal of Biological Chemistry*, **2007**, 282, 28768-28778	5.4	30
34	A role of the transient receptor potential domain of vanilloid receptor I in channel gating. *Journal of Neuroscience*, **2007**, 27, 11641-50	6.6	71
33	Inhibition of a background potassium channel by Gq protein alpha-subunits. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 3422-7	11.5	121
32	Contribution of TRPM8 channels to cold transduction in primary sensory neurons and peripheral nerve terminals. *Journal of Neuroscience*, **2006**, 26, 12512-25	6.6	146
31	Cold sensitivity in axotomized fibers of experimental neuromas in mice. *Pain*, **2006**, 120, 24-35	8	26

30	The contribution of TRPM8 channels to cold sensing in mammalian neurones. *Journal of Physiology*, **2005**, 567, 415-26	3.9	56
29	Differential thermosensitivity of sensory neurons in the guinea pig trigeminal ganglion. *Journal of Neurophysiology*, **2003**, 90, 2219-31	3.2	24
28	GAP43 stimulates inositol trisphosphate-mediated calcium release in response to hypotonicity. *EMBO Journal*, **2003**, 22, 3004-14	13	27
27	Postnatal changes in membrane properties of mice trigeminal ganglion neurons. *Journal of Neurophysiology*, **2002**, 87, 2398-407	3.2	37
26	Specificity of cold thermotransduction is determined by differential ionic channel expression. *Nature Neuroscience*, **2002**, 5, 254-60	25.5	286
25	Attenuation of thermal nociception and hyperalgesia by VR1 blockers. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 2374-9	11.5	172
24	Swelling-activated calcium signalling in cultured mouse primary sensory neurons. *European Journal of Neuroscience*, **2001**, 13, 722-34	3.5	61
23	Calcium signalling through nucleotide receptor P2Y2 in cultured human vascular endothelium. *Cell Calcium*, **1998**, 24, 117-27	4	34
22	Ion channels in vascular endothelium. *Annual Review of Physiology*, **1997**, 59, 145-70	23.1	249
21	Neuromodulation of hypoglossal motoneurons: cellular and developmental mechanisms. *Respiration Physiology*, **1997**, 110, 139-50		76
20	Inhibition by mibefradil, a novel calcium channel antagonist, of Ca(2+)- and volume-activated Cl- channels in macrovascular endothelial cells. *British Journal of Pharmacology*, **1997**, 121, 547-55	8.6	94
19	Mibefradil (Ro 40-5967) blocks multiple types of voltage-gated calcium channels in cultured rat spinal motoneurones. *Cell Calcium*, **1997**, 22, 299-311	4	96
18	Calcium-activated potassium channels in cultured human endothelial cells are not directly modulated by nitric oxide. *Cell Calcium*, **1997**, 21, 291-300	4	32
17	Modulation of high voltage-activated calcium channels by somatostatin in acutely isolated rat amygdaloid neurons. *Journal of Neuroscience*, **1996**, 16, 6000-11	6.6	68
16	Development of hypoglossal motoneurons. *Journal of Applied Physiology*, **1996**, 81, 1039-48	3.7	68
15	Drug-transport and volume-activated chloride channel functions in human erythroleukemia cells: relation to expression level of P-glycoprotein. *Journal of Membrane Biology*, **1995**, 145, 87-98	2.3	23
14	Lack of correlation between mdr-1 expression and volume-activation of cloride-currents in rat colon cancer cells. *Pflugers Archiv European Journal of Physiology*, **1995**, 430, 296-8	4.6	21
13	Repetitive firing properties of developing rat brainstem motoneurones. *Journal of Physiology*, **1995** , 486 (Pt 3), 745-61	3.9	67

12	Volume-activated chloride currents are not correlated with P-glycoprotein expression. *Biochemical Journal*, **1995**, 307 (Pt 3), 713-8	3.8	29
11	Postnatal development of hypoglossal motoneuron intrinsic properties. *Advances in Experimental Medicine and Biology*, **1995**, 381, 63-71	3.6	28
10	Volume-activated Cl- currents in different mammalian non-excitable cell types. *Pflugers Archiv European Journal of Physiology*, **1994**, 428, 364-71	4.6	79
9	Effects of thyrotropin-releasing hormone on rat motoneurons are mediated by G proteins. *Brain Research*, **1994**, 668, 220-9	3.7	25
8	Postnatal changes in rat hypoglossal motoneuron membrane properties. *Neuroscience*, **1994**, 59, 131-48	3.9	94
7	Calcium conductances and their role in the firing behavior of neonatal rat hypoglossal motoneurons. *Journal of Neurophysiology*, **1993**, 69, 2137-49	3.2	110
6	Thyrotropin-releasing hormone causes excitation of rat hypoglossal motoneurons in vitro. *Sleep*, **1993**, 16, S49-52	1.1	8
5	Modulation of neonatal rat hypoglossal motoneuron excitability by serotonin. *Neuroscience Letters*, **1992**, 143, 164-8	3.3	161
4	Double- and triple-labeling of functionally characterized central neurons projecting to peripheral targets studied in vitro. *Neuroscience*, **1990**, 38, 829-41	3.9	59
3	Electrophysiological determination of the axonal projections of single dorsal respiratory group neurons to the cervical spinal cord of cat. *Brain Research*, **1988**, 454, 31-9	3.7	12
2	Projections and terminations of single respiratory axons in the cervical spinal cord of cat. *Brain Research*, **1988**, 449, 201-12	3.7	8
1	Repetitive firing properties of phrenic motoneurons in the cat. *Journal of Neurophysiology*, **1988**, 60, 687-702	3.2	33