# Felix Viana

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 85<br>papers | 6,266<br>citations | 57758<br>44<br>h-index | 69250<br>77<br>g-index |
| 86<br>all docs | 86<br>docs citations | 86<br>times ranked | 5378<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Origins of direction selectivity in the primate retina. Nature Communications, 2022, 13, . | 12.8 | 19 |
| 2 | Expression of the cold thermoreceptor TRPM8 in rodent brain thermoregulatory circuits. Journal of Comparative Neurology, 2021, 529, 234-256. | 1.6 | 39 |
| 3 | Constitutive Phosphorylation as a Key Regulator of TRPM8 Channel Function. Journal of Neuroscience, 2021, 41, 8475-8493. | 3.6 | 11 |
| 4 | Piezo2 Mediates Low-Threshold Mechanically Evoked Pain in the Cornea. Journal of Neuroscience, 2020, 40, 8976-8993. | 3.6 | 49 |
| 5 | Detecting Warm Temperatures Is a Cool Kind of Thing. Neuron, 2020, 106, 712-714. | 8.1 | 0 |
| 6 | The Immunosuppressant Macrolide Tacrolimus Activates Cold-Sensing TRPM8 Channels. Journal of Neuroscience, 2019, 39, 949-969. | 3.6 | 33 |
| 7 | Morphological and functional changes in TRPM8â€expressing corneal cold thermoreceptor neurons during aging and their impact on tearing in mice. Journal of Comparative Neurology, 2018, 526, 1859-1874. | 1.6 | 47 |
| 8 | Mammalian cold TRP channels: impact on thermoregulation and energy homeostasis. Pflugers Archiv European Journal of Physiology, 2018, 470, 761-777. | 2.8 | 26 |
| 9 | 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. | 3.6 | 65 |
| 10 | Cover Image, Volume 526, Issue 11. Journal of Comparative Neurology, 2018, 526, C1-C1. | 1.6 | 0 |
| 11 | Nociceptors: thermal allodynia and thermal pain. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2018, 156, 103-119. | 1.8 | 18 |
| 12 | TRPA1 channels: Molecular sentinels of cellular stress and tissue damage. Toxicon, 2018, 149, 91. | 1.6 | 0 |
| 13 | TRPA1 Channels Mediate Human Gingival Fibroblast Response to Phenytoin. Journal of Dental Research, 2017, 96, 832-839. | 5.2 | 14 |
| 14 | TRPA1 channels: molecular sentinels of cellular stress and tissue damage. Journal of Physiology, 2016, 594, 4151-4169. | 2.9 | 149 |
| 15 | New Insight in Cold Pain: Role of Ion Channels, Modulation, and Clinical Perspectives. Journal of Neuroscience, 2016, 36, 11435-11439. | 3.6 | 52 |
| 16 | TRPM8 is a neuronal osmosensor that regulates eye blinking in mice. Nature Communications, 2015, 6, 7150. | 12.8 | 111 |
| 17 | TRPM8. Handbook of Experimental Pharmacology, 2014, 222, 547-579. | 1.8 | 67 |
| 18 | Ion Channel Profile of TRPM8 Cold Receptors Reveals a Role of TASK-3 Potassium Channels in Thermosensation. Cell Reports, 2014, 8, 1571-1582. | 6.4 | 81 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | TRPA1 channels mediate acute neurogenic inflammation and pain produced by bacterial endotoxins. Nature Communications, 2014, 5, 3125. | 12.8 | 361 |
| 20 | 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, 21828-21843. | 3.4 | 28 |
| 21 | Plasma membranes as heat stress sensors: From lipid-controlled molecular switches to therapeutic applications. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 1594-1618. | 2.6 | 115 |
| 22 | Targeting TRPM8 for Pain Relief. Open Pain Journal, 2013, 6, 154-164. | 0.4 | 18 |
| 23 | N-Glycosylation of TRPM8 Ion Channels Modulates Temperature Sensitivity of Cold Thermoreceptor Neurons. Journal of Biological Chemistry, 2012, 287, 18218-18229. | 3.4 | 64 |
| 24 | Role of I<sub>h</sub> in the firing pattern of mammalian cold thermoreceptor endings. Journal of Neurophysiology, 2012, 108, 3009-3023. | 1.8 | 31 |
| 25 | TRPM8 Ion Channels Differentially Modulate Proliferation and Cell Cycle Distribution of Normal and Cancer Prostate Cells. PLoS ONE, 2012, 7, e51825. | 2.5 | 76 |
| 26 | The Influence of Cold Temperature on Cellular Excitability of Hippocampal Networks. PLoS ONE, 2012, 7, e52475. | 2.5 | 22 |
| 27 | Chemosensory Properties of the Trigeminal System. ACS Chemical Neuroscience, 2011, 2, 38-50. | 3.5 | 149 |
| 28 | The Emerging Pharmacology of TRPM8 Channels: Hidden Therapeutic Potential Underneath a Cold Surface. Current Pharmaceutical Biotechnology, 2011, 12, 54-67. | 1.6 | 27 |
| 29 | Pharmacological and functional properties of TRPM8 channels in prostate tumor cells. Pflugers Archiv European Journal of Physiology, 2011, 461, 99-114. | 2.8 | 41 |
| 30 | Membraneâ€tethered peptides patterned after the TRP domain (TRPducins) selectively inhibit TRPV1 channel activity. FASEB Journal, 2011, 25, 1628-1640. | 0.5 | 37 |
| 31 | Ocular surface wetness is regulated by TRPM8-dependent cold thermoreceptors of the cornea. Nature Medicine, 2010, 16, 1396-1399. | 30.7 | 270 |
| 32 | Variable Threshold of Trigeminal Cold-Thermosensitive Neurons Is Determined by a Balance between TRPM8 and Kv1 Potassium Channels. Journal of Neuroscience, 2009, 29, 3120-3131. | 3.6 | 169 |
| 33 | Understanding the mechanisms of cold-evoked pain in humans. Pain, 2009, 147, 7-8. | 4.2 | 4 |
| 34 | Converting cold into pain. Experimental Brain Research, 2009, 196, 13-30. | 1.5 | 99 |
| 35 | Characteristics and physiological role of hyperpolarization activated currents in mouse cold thermoreceptors. Journal of Physiology, 2009, 587, 1961-1976. | 2.9 | 57 |
| 36 | Nicotine activates the chemosensory cation channel TRPA1. Nature Neuroscience, 2009, 12, 1293-1299. | 14.8 | 214 |

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| 37 | Differential Role of the Menthol-Binding Residue Y745 in the Antagonism of Thermally Gated TRPM8 Channels. Molecular Pain, 2009, 5, 1744-8069-5-62. | 2.1 | 54 |
| 38 | Lipid Raft Segregation Modulates TRPM8 Channel Activity. Journal of Biological Chemistry, 2009, 284, 9215-9224. | 3.4 | 104 |
| 39 | TRPA1 modulators in preclinical development. Expert Opinion on Therapeutic Patents, 2009, 19, 1787-1799. | 5.0 | 32 |
| 40 | Hypoosmoticâ€•and pressureâ€•induced membrane stretch activate TRPC5 channels. Journal of Physiology, 2008, 586, 5633-5649. | 2.9 | 123 |
| 41 | Potassium channels shape and brake primary sensory neurone excitability. Journal of Physiology, 2008, 586, 5039-5040. | 2.9 | 1 |
| 42 | Funny currents are becoming serious players in nociceptor's sensitization. Journal of Physiology, 2008, 586, 5841-5842. | 2.9 | 3 |
| 43 | Molecular and Cellular Limits to Somatosensory Specificity. Molecular Pain, 2008, 4, 1744-8069-4-14. | 2.1 | 116 |
| 44 | TRPA1 channels: Novel targets of 1,4-dihydropyridines. Channels, 2008, 2, 429-438. | 2.8 | 64 |
| 45 | Identification of molecular determinants of channel gating in the transient receptor potential box of vanilloid receptor I. FASEB Journal, 2008, 22, 3298-3309. | 0.5 | 79 |
| 46 | Transient Receptor Potential Channels in Sensory Neurons Are Targets of the Antimycotic Agent Clotrimazole. Journal of Neuroscience, 2008, 28, 576-586. | 3.6 | 103 |
| 47 | TRPA1 Channels Mediate Cold Temperature Sensing in Mammalian Vagal Sensory Neurons: Pharmacological and Genetic Evidence. Journal of Neuroscience, 2008, 28, 7863-7875. | 3.6 | 148 |
| 48 | Transcriptional Control of Cholesterol Biosynthesis in Schwann Cells by Axonal Neuregulin 1. Journal of Biological Chemistry, 2007, 282, 28768-28778. | 3.4 | 32 |
| 49 | A Role of the Transient Receptor Potential Domain of Vanilloid Receptor I in Channel Gating. Journal of Neuroscience, 2007, 27, 11641-11650. | 3.6 | 82 |
| 50 | Comparative Effects of the Nonsteroidal Anti-inflammatory Drug Nepafenac on Corneal Sensory Nerve Fibers Responding to Chemical Irritation. , 2007, 48, 182. | | 26 |
| 51 | Bidirectional shifts of TRPM8 channel gating by temperature and chemical agents modulate the cold sensitivity of mammalian thermoreceptors. Journal of Physiology, 2007, 581, 155-174. | 2.9 | 99 |
| 52 | Cold sensitivity in axotomized fibers of experimental neuromas in mice. Pain, 2006, 120, 24-35. | 4.2 | 29 |
| 53 | Inhibition of a background potassium channel by Gq protein Â-subunits. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3422-3427. | 7.1 | 128 |
| 54 | Contribution of TRPM8 Channels to Cold Transduction in Primary Sensory Neurons and Peripheral Nerve Terminals. Journal of Neuroscience, 2006, 26, 12512-12525. | 3.6 | 156 |

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|---|---|---|---|
| 55 | The contribution of TRPM8 channels to cold sensing in mammalian neurones. Journal of Physiology, 2005, 567, 415-426. | 2.9 | 69 |
| 56 | GAP43 stimulates inositol trisphosphate-mediated calcium release in response to hypotonicity. EMBO Journal, 2003, 22, 3004-3014. | 7.8 | 31 |
| 57 | Differential Thermosensitivity of Sensory Neurons in the Guinea Pig Trigeminal Ganglion. Journal of Neurophysiology, 2003, 90, 2219-2231. | 1.8 | 26 |
| 58 | Attenuation of thermal nociception and hyperalgesia by VR1 blockers. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2374-2379. | 7.1 | 178 |
| 59 | Postnatal Changes in Membrane Properties of Mice Trigeminal Ganglion Neurons. Journal of Neurophysiology, 2002, 87, 2398-2407. | 1.8 | 40 |
| 60 | Specificity of cold thermotransduction is determined by differential ionic channel expression. Nature Neuroscience, 2002, 5, 254-260. | 14.8 | 316 |
| 61 | Swelling-activated calcium signalling in cultured mouse primary sensory neurons. European Journal of Neuroscience, 2001, 13, 722-734. | 2.6 | 66 |
| 62 | Calcium signalling through nucleotide receptor P2Y2 in cultured human vascular endothelium. Cell Calcium, 1998, 24, 117-127. | 2.4 | 38 |
| 63 | ION CHANNELS IN VASCULAR ENDOTHELIUM. Annual Review of Physiology, 1997, 59, 145-170. | 13.1 | 257 |
| 64 | Neuromodulation of hypoglossal motoneurons: cellular and developmental mechanisms. Respiration Physiology, 1997, 110, 139-150. | 2.7 | 86 |
| 65 | Inhibition by mibefradil, a novel calcium channel antagonist, of Ca2+ - and volume-activated Clâ^' channels in macrovascular endothelial cells. British Journal of Pharmacology, 1997, 121, 547-555. | 5.4 | 115 |
| 66 | Mibefradil (Ro 40m5967) blocks multiple types of voltage-gated calcium channels in cultured rat spinal motoneurones. Cell Calcium, 1997, 22, 299-311. | 2.4 | 100 |
| 67 | Calciummactivated potassium channels in cultured human endothelial cells are not directly modulated by nitric oxide. Cell Calcium, 1997, 21, 291-300. | 2.4 | 36 |
| 68 | Modulation of High Voltage-Activated Calcium Channels by Somatostatin in Acutely Isolated Rat Amygdaloid Neurons. Journal of Neuroscience, 1996, 16, 6000-6011. | 3.6 | 71 |
| 69 | Development of hypoglossal motoneurons. Journal of Applied Physiology, 1996, 81, 1039-1048. | 2.5 | 70 |
| 70 | Repetitive firing properties of developing rat brainstem motoneurones.. Journal of Physiology, 1995, 486, 745-761. | 2.9 | 69 |
| 71 | Volume-activated chloride currents are not correlated with P-glycoprotein expression. Biochemical Journal, 1995, 307, 713-718. | 3.7 | 33 |
| 72 | 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. | 2.1 | 27 |

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| 73 | 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, 296-298. | 2.8 | 22 |
| 74 | Postnatal Development of Hypoglossal Motoneuron Intrinsic Properties. Advances in Experimental Medicine and Biology, 1995, 381, 63-71. | 1.6 | 32 |
| 75 | Volume-activated Clâ˜ currents in different mammalian non-excitable cell types. Pflugers Archiv European Journal of Physiology, 1994, 428, 364-371. | 2.8 | 94 |
| 76 | Effects of thyrotropin-releasing hormone on rat motoneurons are mediated by G proteins. Brain Research, 1994, 668, 220-229. | 2.2 | 27 |
| 77 | Postnatal changes in rat hypoglossal motoneuron membrane properties. Neuroscience, 1994, 59, 131-148. | 2.3 | 102 |
| 78 | Calcium conductances and their role in the firing behavior of neonatal rat hypoglossal motoneurons. Journal of Neurophysiology, 1993, 69, 2137-2149. | 1.8 | 117 |
| 79 | Thyrotropin-Releasing Hormone Causes Excitation of Rat Hypoglossal Motoneurons In Vitro. Sleep, 1993, 16, S49-S52. | 1.1 | 8 |
| 80 | Modulation of neonatal rat hypoglossal motoneuron excitability by serotonin. Neuroscience Letters, 1992, 143, 164-168. | 2.1 | 168 |
| 81 | Double- and triple-labeling of functionally characterized central neurons projecting to peripheral targets studied in vitro. Neuroscience, 1990, 38, 829-841. | 2.3 | 64 |
| 82 | Electrophysiological determination of the axonal projections of single dorsal respiratory group neurons to the cervical spinal cord of cat. Brain Research, 1988, 454, 31-39. | 2.2 | 13 |
| 83 | Projections and terminations of single respiratory axons in the cervical spinal cord of cat. Brain Research, 1988, 449, 201-212. | 2.2 | 8 |
| 84 | Repetitive firing properties of phrenic motoneurons in the cat. Journal of Neurophysiology, 1988, 60, 687-702. | 1.8 | 35 |
| 85 | Heat Pain and Cold Pain. , 0, , 179-199. | | 6 |