## Joris Vriens

List of Publications by Year in descending order

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LODIS VIDIENIS

#	Article	IF	CITATIONS
1	Anandamide and arachidonic acid use epoxyeicosatrienoic acids to activate TRPV4 channels. Nature, 2003, 424, 434-438.	13.7	895
2	Heat-evoked Activation of TRPV4 Channels in a HEK293 Cell Expression System and in Native Mouse Aorta Endothelial Cells. Journal of Biological Chemistry, 2002, 277, 47044-47051.	1.6	580
3	Cell swelling, heat, and chemical agonists use distinct pathways for the activation of the cation channel TRPV4. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 396-401.	3.3	561
4	Activation of TRPV4 Channels (hVRL-2/mTRP12) by Phorbol Derivatives. Journal of Biological Chemistry, 2002, 277, 13569-13577.	1.6	519
5	Inhibition of the Glycolytic Activator PFKFB3 in Endothelium Induces Tumor Vessel Normalization, Impairs Metastasis, and Improves Chemotherapy. Cancer Cell, 2016, 30, 968-985.	7.7	464
6	TRPM3 Is a Nociceptor Channel Involved in the Detection of Noxious Heat. Neuron, 2011, 70, 482-494.	3.8	454
7	TRPV4 calcium entry channel: a paradigm for gating diversity. American Journal of Physiology - Cell Physiology, 2004, 286, C195-C205.	2.1	401
8	Pharmacology of Vanilloid Transient Receptor Potential Cation Channels. Molecular Pharmacology, 2009, 75, 1262-1279.	1.0	366
9	Inhibition of the cation channel TRPV4 improves bladder function in mice and rats with cyclophosphamide-induced cystitis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19084-19089.	3.3	351
10	Modulation of the Ca 2 Permeable Cation Channel TRPV4 by Cytochrome P450 Epoxygenases in Vascular Endothelium. Circulation Research, 2005, 97, 908-915.	2.0	334
11	A TRP channel trio mediates acute noxious heat sensing. Nature, 2018, 555, 662-666.	13.7	329
12	Peripheral thermosensation in mammals. Nature Reviews Neuroscience, 2014, 15, 573-589.	4.9	304
13	Deletion of the transient receptor potential cation channel TRPV4 impairs murine bladder voiding. Journal of Clinical Investigation, 2007, 117, 3453-3462.	3.9	283
14	Patient-derived organoids from endometrial disease capture clinical heterogeneity and are amenable to drug screening. Nature Cell Biology, 2019, 21, 1041-1051.	4.6	281
15	Molecular Determinants of Permeation through the Cation Channel TRPV4. Journal of Biological Chemistry, 2002, 277, 33704-33710.	1.6	270
16	TRPV4-Mediated Calcium Influx Regulates Terminal Differentiation of Osteoclasts. Cell Metabolism, 2008, 8, 257-265.	7.2	260
17	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Ion channels. British Journal of Pharmacology, 2019, 176, S142-S228.	2.7	242
18	Role of Caveolar Compartmentation in Endothelium-Derived Hyperpolarizing Factor–Mediated Relaxation. Circulation, 2008, 117, 1065-1074.	1.6	202

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19	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Ion channels. British Journal of Pharmacology, 2021, 178, S157-S245.	2.7	187
20	Mutations in the Gene Encoding the Calcium-Permeable Ion Channel TRPV4 Produce Spondylometaphyseal Dysplasia, Kozlowski Type and Metatropic Dysplasia. American Journal of Human Genetics, 2009, 84, 307-315.	2.6	173
21	Role of cytochrome P450-dependent transient receptor potential V4 activation in flow-induced vasodilatation. Cardiovascular Research, 2008, 80, 445-452.	1.8	165
22	TRPM1 Forms Ion Channels Associated with Melanin Content in Melanocytes. Science Signaling, 2009, 2, ra21.	1.6	164
23	The â€~headache tree' via umbellulone and TRPA1 activates the trigeminovascular system. Brain, 2012, 135, 376-390.	3.7	163
24	Herbal Compounds and Toxins Modulating TRP Channels. Current Neuropharmacology, 2008, 6, 79-96.	1.4	155
25	Functional characterization of transient receptor potential channels in mouse urothelial cells. American Journal of Physiology - Renal Physiology, 2010, 298, F692-F701.	1.3	135
26	The TRPV4 channel: structure-function relationship and promiscuous gating behaviour. Pflugers Archiv European Journal of Physiology, 2003, 446, 298-303.	1.3	132
27	A novel function of capsaicin-sensitive TRPV1 channels: Involvement in cell migration. Cell Calcium, 2007, 42, 17-25.	1.1	129
28	Determinants of 4α-Phorbol Sensitivity in Transmembrane Domains 3 and 4 of the Cation Channel TRPV4. Journal of Biological Chemistry, 2007, 282, 12796-12803.	1.6	119
29	The Sensory Coding of Warm Perception. Neuron, 2020, 106, 830-841.e3.	3.8	119
30	Modulation of TRPV4 gating by intra- and extracellular Ca2+. Cell Calcium, 2003, 33, 489-495.	1.1	118
31	Activation of TRPM3 by a potent synthetic ligand reveals a role in peptide release. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1363-72.	3.3	105
32	TRPV channels and modulation by hepatocyte growth factor/scatter factor in human hepatoblastoma (HepG2) cells. Cell Calcium, 2004, 36, 19-28.	1.1	103
33	Citral Sensing by TRANSient Receptor Potential Channels in Dorsal Root Ganglion Neurons. PLoS ONE, 2008, 3, e2082.	1.1	101
34	Dominant <i>TRPV4</i> mutations in nonlethal and lethal metatropic dysplasia. American Journal of Medical Genetics, Part A, 2010, 152A, 1169-1177.	0.7	93
35	Opening of an alternative ion permeation pathway in a nociceptor TRP channel. Nature Chemical Biology, 2014, 10, 188-195.	3.9	86
36	Cholesterol loss during glutamate-mediated excitotoxicity. EMBO Journal, 2012, 31, 1764-1773.	3.5	83

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37	Regulation of the transient receptor potential channel TRPM3 by phosphoinositides. Journal of General Physiology, 2015, 146, 51-63.	0.9	62
38	TRPM3 in temperature sensing and beyond. Temperature, 2015, 2, 201-213.	1.7	58
39	TRP Channel Cooperation for Nociception: Therapeutic Opportunities. Annual Review of Pharmacology and Toxicology, 2021, 61, 655-677.	4.2	54
40	Invertebrate TRP proteins as functional models for mammalian channels. Pflugers Archiv European Journal of Physiology, 2004, 449, 213-26.	1.3	49
41	Vascular Hypoxic Preconditioning Relies on TRPV4-Dependent Calcium Influx and Proper Intercellular Gap Junctions Communication. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 2241-2249.	1.1	49
42	High-resolution contrast-enhanced microCT reveals the true three-dimensional morphology of the murine placenta. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13927-13936.	3.3	47
43	VAMP7 regulates constitutive membrane incorporation of the cold-activated channel TRPM8. Nature Communications, 2016, 7, 10489.	5.8	44
44	TRP channel pores and local calcium signals. Cell Calcium, 2017, 66, 19-24.	1.1	42
45	Isolation of Mouse Endometrial Epithelial and Stromal Cells for <em>In Vitro</em> Decidualization. Journal of Visualized Experiments, 2017, , .	0.2	41
46	TRPV1 is involved in stretch-evoked contractile changes in the rat autonomous bladder model: a study with piperine, a new TRPV1 agonist. Neurourology and Urodynamics, 2007, 26, 440-450.	0.8	37
47	Functional expression of transient receptor potential channels in human endometrial stromal cells during the luteal phase of the menstrual cycle. Human Reproduction, 2015, 30, 1421-1436.	0.4	37
48	Functional expression of the mechanosensitive PIEZO1 channel in primary endometrial epithelial cells and endometrial organoids. Scientific Reports, 2019, 9, 1779.	1.6	36
49	Sensing the heat with TRPM3. Pflugers Archiv European Journal of Physiology, 2018, 470, 799-807.	1.3	33
50	Urine of Preterm Neonates as a Novel Source of Kidney Progenitor Cells. Journal of the American Society of Nephrology: JASN, 2016, 27, 2762-2770.	3.0	32
51	Functional expression and pharmacological modulation of TRPM3 in human sensory neurons. British Journal of Pharmacology, 2020, 177, 2683-2695.	2.7	32
52	Gain of channel function and modified gating properties in TRPM3 mutants causing intellectual disability and epilepsy. ELife, 2020, 9, .	2.8	32
53	TRPV4 participates in the establishment of trailing adhesions and directional persistence of migrating cells. Pflugers Archiv European Journal of Physiology, 2015, 467, 2107-2119.	1.3	31
54	Mutations in the voltageâ€sensing domain affect the alternative ion permeation pathway in the TRPM3 channel. Journal of Physiology, 2018, 596, 2413-2432.	1.3	29

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55	Definition of two agonist types at the mammalian cold-activated channel TRPM8. ELife, 2016, 5, .	2.8	25
56	Upregulation of TRPM3 in nociceptors innervating inflamed tissue. ELife, 2020, 9, .	2.8	23
57	TRPV4 is associated with central rather than nephrogenic osmoregulation. Pflugers Archiv European Journal of Physiology, 2016, 468, 1595-1607.	1.3	21
58	Double-label immunohistochemistry to assess labyrinth structure of the mouse placenta with stereology. Placenta, 2020, 94, 44-47.	0.7	21
59	The functional expression of transient receptor potential channels in the mouse endometrium. Human Reproduction, 2017, 32, 615-630.	0.4	20
60	Targeting TRP Channels – Valuable Alternatives to Combat Pain, Lower Urinary Tract Disorders, and Type 2 Diabetes?. Trends in Pharmacological Sciences, 2019, 40, 669-683.	4.0	20
61	Establishing life is a calcium-dependent TRiP: Transient receptor potential channels in reproduction. Biochimica Et Biophysica Acta - Molecular Cell Research, 2018, 1865, 1815-1829.	1.9	17
62	Heat sensing involves a <scp>TR<i>i</i>Plet</scp> of ion channels. British Journal of Pharmacology, 2019, 176, 3893-3898.	2.7	17
63	TRPV1 dysfunction in cystinosis patients harboring the homozygous 57 kb deletion. Scientific Reports, 2016, 6, 35395.	1.6	15
64	Transient Receptor Potential Channels in the Epithelial-to-Mesenchymal Transition. International Journal of Molecular Sciences, 2021, 22, 8188.	1.8	14
65	Transient receptor potential channel regulation by growth factors. Biochimica Et Biophysica Acta - Molecular Cell Research, 2021, 1868, 118950.	1.9	13
66	Functional Expression of TRP Ion Channels in Endometrial Stromal Cells of Endometriosis Patients. International Journal of Molecular Sciences, 2018, 19, 2467.	1.8	12
67	Mimicking Sampson's Retrograde Menstrual Theory in Rats: A New Rat Model for Ongoing Endometriosis-Associated Pain. International Journal of Molecular Sciences, 2020, 21, 2326.	1.8	12
68	Mapping the expression of transient receptor potential channels across murine placental development. Cellular and Molecular Life Sciences, 2021, 78, 4993-5014.	2.4	12
69	Testing of iatrogenic lingual nerve injury using a novel psychophysical method and oral reflexes. International Journal of Oral and Maxillofacial Surgery, 2007, 36, 545-549.	0.7	11
70	Optimization of Endometrial Decidualization in the Menstruating Mouse Model for Preclinical Endometriosis Research. Reproductive Sciences, 2018, 25, 1577-1588.	1.1	10
71	Pharmacological properties of TRPM3 isoforms are determined by the length of the pore loop. British Journal of Pharmacology, 2020, , .	2.7	10
72	Signature and Pathophysiology of Non-canonical Pores in Voltage-Dependent Cation Channels. Reviews of Physiology, Biochemistry and Pharmacology, 2016, 170, 67-99.	0.9	9

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73	Laparoscopic Surgery: A New Technique to Induce Endometriosis in a Mouse Model. Reproductive Sciences, 2016, 23, 1332-1339.	1.1	9
74	Reply to: Heat detection by the TRPM2 ion channel. Nature, 2020, 584, E13-E15.	13.7	9
75	The TRPM3 ion channel mediates nociception but not itch evoked by endogenous pruritogenic mediators. Biochemical Pharmacology, 2021, 183, 114310.	2.0	9
76	TRP channel expression correlates with the epithelial–mesenchymal transition and high-risk endometrial carcinoma. Cellular and Molecular Life Sciences, 2022, 79, 1.	2.4	9
77	Phenotypic spectrum of the recurrent <i>TRPM3</i> p.( <scp>Val837Met</scp> ) substitution in seven individuals with global developmental delay and hypotonia. American Journal of Medical Genetics, Part A, 2022, 188, 1667-1675.	0.7	8
78	Transient Receptor Potential channels (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database. IUPHAR/BPS Guide To Pharmacology CITE, 2019, 2019, .	0.2	7
79	Partial Agonistic Actions of Sex Hormone Steroids on TRPM3 Function. International Journal of Molecular Sciences, 2021, 22, 13652.	1.8	6
80	Of Mice and Women: A Laparoscopic Mouse Model for Endometriosis. Journal of Minimally Invasive Gynecology, 2018, 25, 578-579.	0.3	5
81	Horizontal Hippocampal Slices of the Mouse Brain. Journal of Visualized Experiments, 2020, , .	0.2	3
82	Loratadine, an antihistaminic drug, suppresses the proliferation of endometrial stromal cells by inhibition of TRPV2. European Journal of Pharmacology, 2022, 928, 175086.	1.7	3
83	63 TRPV4 IS LOCALISED ON UROTHELIUM: DOES IT PLAYA ROLE IN AFFERENT BLADDER SIGNALLING?. European Urology Supplements, 2007, 6, 38.	0.1	2
84	Urine-Derived Kidney Progenitor Cells in Cystinosis. Cells, 2022, 11, 1245.	1.8	2
85	Cellular Regulation of Transient Receptor Potential Melastatin 3 (TRPM3) Channel Activity. Biophysical Journal, 2014, 106, 334a.	0.2	1
86	Transient Receptor Potential channels (TRP) in GtoPdb v.2021.3. IUPHAR/BPS Guide To Pharmacology CITE, 2021, 2021, .	0.2	1
87	TRPV1 ACTS AS A LOCAL STRETCH-SENSING MOLECULE IN RAT BLADDER. European Urology Supplements, 2006, 5, 799.	0.1	0
88	Clotrimazole Potentiates TRPM3 Responses to Pregnenolone Sulfate. Biophysical Journal, 2010, 98, 341a.	0.2	0
89	821 HC-067047, A TRPV4-SELECTIVE ANTAGONIST, IMPROVES BLADDER FUNCTION IN MICE WITH CYCLOPHOSPHAMIDE-INDUCED CYSTITIS. European Urology Supplements, 2011, 10, 260.	0.1	0
90	Transient Receptor Potential Melastatin 3 Channel. Biophysical Journal, 2011, 100, 109a.	0.2	0

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91	Pore and Gating Properties of TRPM3 Isoforms. Biophysical Journal, 2012, 102, 342a.	0.2	0
92	TRPM3 - A Promising Target for Analgesic Treatment. Biophysical Journal, 2014, 106, 754a.	0.2	0
93	Species-Dependent Effects of Mustard Oil on TRPM8. Biophysical Journal, 2014, 106, 337a.	0.2	0
94	Novel TRPM3 Agonist - Single Compound Opens Multiple Ion Permeation Pathways. Biophysical Journal, 2014, 106, 334a.	0.2	0
95	Functional Analysis of the Thermosensor TRPM3 in Intact Sensory Fibers Using the Skin-Nerve Assay. Biophysical Journal, 2015, 108, 283a.	0.2	0
96	An Alternative Ion Permeation Pathway in the TRPM3α1 Isoform?. Biophysical Journal, 2015, 108, 282a-283a.	0.2	0
97	Biophysical Properties of the Alternative Ion Permeation Pore in TRPM3. Biophysical Journal, 2015, 108, 283a.	0.2	0
98	Further Evidence of an Alternative Ion Permeation Pathway in the Nociceptor TRPM3. Biophysical Journal, 2016, 110, 612a.	0.2	0
99	A cellular pathway controlling functional plasma membrane incorporation of the cold sensor TRPM8. Temperature, 2016, 3, 521-523.	1.7	0
100	Localization of an Alternative Ion Permeation Pathway in TRPM3. Biophysical Journal, 2017, 112, 466a.	0.2	0
101	Molecular Determinants of the Trafficking of the Coldâ€activated Transient Receptor Potential Ion Channel Trpm8. FASEB Journal, 2015, 29, 845.5.	0.2	0
102	In vivo and ex vivo imaging of nociceptor expression and activity. Journal of Cellular Neuroscience and Oxidative Stress, 2019, 11, 3-3.	0.1	0
103	Transient Receptor Potential channels (TRP) in GtoPdb v.2022.1. IUPHAR/BPS Guide To Pharmacology CITE, 2022, 2022, .	0.2	0