## Joris Vriens

## List of Publications by Citations

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#	Paper	IF	Citations
84	Anandamide and arachidonic acid use epoxyeicosatrienoic acids to activate TRPV4 channels. <i>Nature</i> , <b>2003</b> , 424, 434-8	50.4	795
83	Heat-evoked activation of TRPV4 channels in a HEK293 cell expression system and in native mouse aorta endothelial cells. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 47044-51	5.4	501
82	Cell swelling, heat, and chemical agonists use distinct pathways for the activation of the cation channel TRPV4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 396-401	11.5	497
81	Activation of TRPV4 channels (hVRL-2/mTRP12) by phorbol derivatives. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 13569-77	5.4	473
80	TRPM3 is a nociceptor channel involved in the detection of noxious heat. <i>Neuron</i> , <b>2011</b> , 70, 482-94	13.9	352
79	TRPV4 calcium entry channel: a paradigm for gating diversity. <i>American Journal of Physiology - Cell Physiology</i> , <b>2004</b> , 286, C195-205	5.4	350
78	Inhibition of the Glycolytic Activator PFKFB3 in Endothelium Induces Tumor Vessel Normalization, Impairs Metastasis, and Improves Chemotherapy. <i>Cancer Cell</i> , <b>2016</b> , 30, 968-985	24.3	325
77	Pharmacology of vanilloid transient receptor potential cation channels. <i>Molecular Pharmacology</i> , <b>2009</b> , 75, 1262-79	4.3	322
76	Modulation of the Ca2 permeable cation channel TRPV4 by cytochrome P450 epoxygenases in vascular endothelium. <i>Circulation Research</i> , <b>2005</b> , 97, 908-15	15.7	301
75	Inhibition of the cation channel TRPV4 improves bladder function in mice and rats with cyclophosphamide-induced cystitis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 19084-9	11.5	298
74	Deletion of the transient receptor potential cation channel TRPV4 impairs murine bladder voiding. Journal of Clinical Investigation, 2007, 117, 3453-62	15.9	250
73	Peripheral thermosensation in mammals. <i>Nature Reviews Neuroscience</i> , <b>2014</b> , 15, 573-89	13.5	230
<del>7</del> 2	Molecular determinants of permeation through the cation channel TRPV4. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 33704-10	5.4	223
71	TRPV4-mediated calcium influx regulates terminal differentiation of osteoclasts. <i>Cell Metabolism</i> , <b>2008</b> , 8, 257-65	24.6	222
70	A TRP channel trio mediates acute noxious heat sensing. <i>Nature</i> , <b>2018</b> , 555, 662-666	50.4	203
69	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Ion channels. <i>British Journal of Pharmacology</i> , <b>2019</b> , 176 Suppl 1, S142-S228	8.6	200
68	Role of caveolar compartmentation in endothelium-derived hyperpolarizing factor-mediated relaxation: Ca2+ signals and gap junction function are regulated by caveolin in endothelial cells. <i>Circulation</i> , <b>2008</b> , 117, 1065-74	16.7	178

## (2015-2009)

67	Mutations in the gene encoding the calcium-permeable ion channel TRPV4 produce spondylometaphyseal dysplasia, Kozlowski type and metatropic dysplasia. <i>American Journal of Human Genetics</i> , <b>2009</b> , 84, 307-15	11	148	
66	Patient-derived organoids from endometrial disease capture clinical heterogeneity and are amenable to drug screening. <i>Nature Cell Biology</i> , <b>2019</b> , 21, 1041-1051	23.4	146	
65	Role of cytochrome P450-dependent transient receptor potential V4 activation in flow-induced vasodilatation. <i>Cardiovascular Research</i> , <b>2008</b> , 80, 445-52	9.9	141	
64	TRPM1 forms ion channels associated with melanin content in melanocytes. <i>Science Signaling</i> , <b>2009</b> , 2, ra21	8.8	139	
63	Herbal compounds and toxins modulating TRP channels. Current Neuropharmacology, 2008, 6, 79-96	7.6	133	
62	The Sneadache treeSvia umbellulone and TRPA1 activates the trigeminovascular system. <i>Brain</i> , <b>2012</b> , 135, 376-90	11.2	119	
61	Functional characterization of transient receptor potential channels in mouse urothelial cells. <i>American Journal of Physiology - Renal Physiology</i> , <b>2010</b> , 298, F692-701	4.3	117	
60	A novel function of capsaicin-sensitive TRPV1 channels: involvement in cell migration. <i>Cell Calcium</i> , <b>2007</b> , 42, 17-25	4	116	
59	The TRPV4 channel: structure-function relationship and promiscuous gating behaviour. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2003</b> , 446, 298-303	4.6	115	
58	Modulation of TRPV4 gating by intra- and extracellular Ca2+. <i>Cell Calcium</i> , <b>2003</b> , 33, 489-95	4	108	
57	Determinants of 4 alpha-phorbol sensitivity in transmembrane domains 3 and 4 of the cation channel TRPV4. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 12796-803	5.4	99	
56	TRPV channels and modulation by hepatocyte growth factor/scatter factor in human hepatoblastoma (HepG2) cells. <i>Cell Calcium</i> , <b>2004</b> , 36, 19-28	4	92	
55	Citral sensing by Transient [corrected] receptor potential channels in dorsal root ganglion neurons. <i>PLoS ONE</i> , <b>2008</b> , 3, e2082	3.7	83	
54	Dominant TRPV4 mutations in nonlethal and lethal metatropic dysplasia. <i>American Journal of Medical Genetics, Part A</i> , <b>2010</b> , 152A, 1169-77	2.5	71	
53	Activation of TRPM3 by a potent synthetic ligand reveals a role in peptide release. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E1363-72	11.5	70	
52	Opening of an alternative ion permeation pathway in a nociceptor TRP channel. <i>Nature Chemical Biology</i> , <b>2014</b> , 10, 188-95	11.7	64	
51	Cholesterol loss during glutamate-mediated excitotoxicity. EMBO Journal, 2012, 31, 1764-73	13	58	
50	TRPM3 in temperature sensing and beyond. <i>Temperature</i> , <b>2015</b> , 2, 201-13			

49	The Sensory Coding of Warm Perception. Neuron, 2020, 106, 830-841.e3	13.9	43
48	Vascular hypoxic preconditioning relies on TRPV4-dependent calcium influx and proper intercellular gap junctions communication. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2012</b> , 32, 2241-9	9.4	42
47	Regulation of the transient receptor potential channel TRPM3 by phosphoinositides. <i>Journal of General Physiology</i> , <b>2015</b> , 146, 51-63	3.4	41
46	Invertebrate TRP proteins as functional models for mammalian channels. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2004</b> , 449, 213-26	4.6	39
45	TRP channel pores and local calcium signals. <i>Cell Calcium</i> , <b>2017</b> , 66, 19-24	4	32
44	VAMP7 regulates constitutive membrane incorporation of the cold-activated channel TRPM8. <i>Nature Communications</i> , <b>2016</b> , 7, 10489	17.4	32
43	TRPV1 is involved in stretch-evoked contractile changes in the rat autonomous bladder model: a study with piperine, a new TRPV1 agonist. <i>Neurourology and Urodynamics</i> , <b>2007</b> , 26, 440-50; discussion 451-3	2.3	31
42	Functional expression of transient receptor potential channels in human endometrial stromal cells during the luteal phase of the menstrual cycle. <i>Human Reproduction</i> , <b>2015</b> , 30, 1421-36	5.7	29
41	High-resolution contrast-enhanced microCT reveals the true three-dimensional morphology of the murine placenta. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 13927-13936	11.5	28
40	Sensing the heat with TRPM3. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2018</b> , 470, 799-807	4.6	27
39	TRPV4 participates in the establishment of trailing adhesions and directional persistence of migrating cells. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2015</b> , 467, 2107-19	4.6	24
38	Functional expression of the mechanosensitive PIEZO1 channel in primary endometrial epithelial cells and endometrial organoids. <i>Scientific Reports</i> , <b>2019</b> , 9, 1779	4.9	22
37	Urine of Preterm Neonates as a Novel Source of Kidney Progenitor Cells. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2016</b> , 27, 2762-70	12.7	22
36	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Ion channels. <i>British Journal of Pharmacology</i> , <b>2021</b> , 178 Suppl 1, S157-S245	8.6	21
35	Mutations in the voltage-sensing domain affect the alternative ion permeation pathway in the TRPM3 channel. <i>Journal of Physiology</i> , <b>2018</b> , 596, 2413-2432	3.9	17
34	Isolation of Mouse Endometrial Epithelial and Stromal Cells for In Vitro Decidualization. <i>Journal of Visualized Experiments</i> , <b>2017</b> ,	1.6	17
33	TRPV4 is associated with central rather than nephrogenic osmoregulation. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2016</b> , 468, 1595-607	4.6	17
32	The functional expression of transient receptor potential channels in the mouse endometrium. <i>Human Reproduction</i> , <b>2017</b> , 32, 615-630	5.7	16

## (2020-2020)

31	Functional expression and pharmacological modulation of TRPM3 in human sensory neurons. <i>British Journal of Pharmacology</i> , <b>2020</b> , 177, 2683-2695	8.6	15
30	Definition of two agonist types at the mammalian cold-activated channel TRPM8. ELife, 2016, 5,	8.9	15
29	Gain of channel function and modified gating properties in TRPM3 mutants causing intellectual disability and epilepsy. <i>ELife</i> , <b>2020</b> , 9,	8.9	13
28	Targeting TRP Channels - Valuable Alternatives to Combat Pain, Lower Urinary Tract Disorders, and Type 2 Diabetes?. <i>Trends in Pharmacological Sciences</i> , <b>2019</b> , 40, 669-683	13.2	11
27	Testing of iatrogenic lingual nerve injury using a novel psychophysical method and oral reflexes. <i>International Journal of Oral and Maxillofacial Surgery</i> , <b>2007</b> , 36, 545-9	2.9	11
26	TRPV1 dysfunction in cystinosis patients harboring the homozygous 57 kb deletion. <i>Scientific Reports</i> , <b>2016</b> , 6, 35395	4.9	11
25	TRP Channel Cooperation for Nociception: Therapeutic Opportunities. <i>Annual Review of Pharmacology and Toxicology</i> , <b>2021</b> , 61, 655-677	17.9	11
24	Establishing life is a calcium-dependent TRiP: Transient receptor potential channels in reproduction. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2018</b> , 1865, 1815-1829	4.9	10
23	Heat sensing involves a TRiPlet of ion channels. <i>British Journal of Pharmacology</i> , <b>2019</b> , 176, 3893-3898	8.6	9
22	Double-label immunohistochemistry to assess labyrinth structure of the mouse placenta with stereology. <i>Placenta</i> , <b>2020</b> , 94, 44-47	3.4	9
21	Optimization of Endometrial Decidualization in the Menstruating Mouse Model for Preclinical Endometriosis Research. <i>Reproductive Sciences</i> , <b>2018</b> , 25, 1577-1588	3	8
20	Laparoscopic Surgery: A New Technique to Induce Endometriosis in a Mouse Model. <i>Reproductive Sciences</i> , <b>2016</b> , 23, 1332-9	3	8
19	Functional Expression of TRP Ion Channels in Endometrial Stromal Cells of Endometriosis Patients. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	8
18	Signature and Pathophysiology of Non-canonical Pores in Voltage-Dependent Cation Channels. <i>Reviews of Physiology, Biochemistry and Pharmacology,</i> <b>2016</b> , 170, 67-99	2.9	7
17	Transient Receptor Potential channels (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database. <i>IUPHAR/BPS Guide To Pharmacology CITE</i> , <b>2019</b> , 2019,	1.7	6
16	Upregulation of TRPM3 in nociceptors innervating inflamed tissue. <i>ELife</i> , <b>2020</b> , 9,	8.9	6
15	Reply to: Heat detection by the TRPM2 ion channel. <i>Nature</i> , <b>2020</b> , 584, E13-E15	50.4	4
14	Pharmacological properties of TRPM3 isoforms are determined by the length of the pore loop. <i>British Journal of Pharmacology</i> , <b>2020</b> ,	8.6	4

13	Transient receptor potential channel regulation by growth factors. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2021</b> , 1868, 118950	4.9	4
12	Mapping the expression of transient receptor potential channels across murine placental development. <i>Cellular and Molecular Life Sciences</i> , <b>2021</b> , 78, 4993-5014	10.3	4
11	Transient Receptor Potential Channels in the Epithelial-to-Mesenchymal Transition. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	4
10	Of Mice and Women: A Laparoscopic Mouse Model for Endometriosis. <i>Journal of Minimally Invasive Gynecology</i> , <b>2018</b> , 25, 578-579	2.2	3
9	Mimicking Sampson's Retrograde Menstrual Theory in Rats: A New Rat Model for Ongoing Endometriosis-Associated Pain. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	3
8	The TRPM3 ion channel mediates nociception but not itch evoked by endogenous pruritogenic mediators. <i>Biochemical Pharmacology</i> , <b>2021</b> , 183, 114310	6	3
7	63 TRPV4 IS LOCALISED ON UROTHELIUM: DOES IT PLAYA ROLE IN AFFERENT BLADDER SIGNALLING?. European Urology Supplements, <b>2007</b> , 6, 38	0.9	2
6	Upregulation of TRPM3 drives hyperexcitability in nociceptors innervating inflamed tissue		1
5	Partial Agonistic Actions of Sex Hormone Steroids on TRPM3 Function <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1
4	TRP channel expression correlates with the epithelial-mesenchymal transition and high-risk endometrial carcinoma <i>Cellular and Molecular Life Sciences</i> , <b>2021</b> , 79, 1	10.3	1
3	A cellular pathway controlling functional plasma membrane incorporation of the cold sensor TRPM8. <i>Temperature</i> , <b>2016</b> , 3, 521-523	5.2	
2	In vivo and ex vivo imaging of nociceptor expression and activity. <i>Journal of Cellular Neuroscience</i> and Oxidative Stress, <b>2019</b> , 11, 3-3	0.3	
1	Molecular Determinants of the Trafficking of the Cold-activated Transient Receptor Potential Ion	0.9	