Joris Vriens

List of Publications by Year in Descending Order

84 papers	8,284 citations	39 h-index	91 g-index
110 ext. papers	9,456 ext. citations	7.5 avg, IF	5.69 L-index

#	Paper	IF	Citations
84	Transient receptor potential channel regulation by growth factors. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2021**, 1868, 118950	4.9	4
83	Mapping the expression of transient receptor potential channels across murine placental development. *Cellular and Molecular Life Sciences*, **2021**, 78, 4993-5014	10.3	4
82	TRP Channel Cooperation for Nociception: Therapeutic Opportunities. *Annual Review of Pharmacology and Toxicology*, **2021**, 61, 655-677	17.9	11
81	The TRPM3 ion channel mediates nociception but not itch evoked by endogenous pruritogenic mediators. *Biochemical Pharmacology*, **2021**, 183, 114310	6	3
80	Transient Receptor Potential Channels in the Epithelial-to-Mesenchymal Transition. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	4
79	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Ion channels. *British Journal of Pharmacology*, **2021**, 178 Suppl 1, S157-S245	8.6	21
78	Partial Agonistic Actions of Sex Hormone Steroids on TRPM3 Function.. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
77	TRP channel expression correlates with the epithelial-mesenchymal transition and high-risk endometrial carcinoma.. *Cellular and Molecular Life Sciences*, **2021**, 79, 1	10.3	1
76	The Sensory Coding of Warm Perception. *Neuron*, **2020**, 106, 830-841.e3	13.9	43
75	Functional expression and pharmacological modulation of TRPM3 in human sensory neurons. *British Journal of Pharmacology*, **2020**, 177, 2683-2695	8.6	15
74	Gain of channel function and modified gating properties in TRPM3 mutants causing intellectual disability and epilepsy. *ELife*, **2020**, 9,	8.9	13
73	Upregulation of TRPM3 in nociceptors innervating inflamed tissue. *ELife*, **2020**, 9,	8.9	6
72	Reply to: Heat detection by the TRPM2 ion channel. *Nature*, **2020**, 584, E13-E15	50.4	4
71	Pharmacological properties of TRPM3 isoforms are determined by the length of the pore loop. *British Journal of Pharmacology*, **2020**,	8.6	4
70	Double-label immunohistochemistry to assess labyrinth structure of the mouse placenta with stereology. *Placenta*, **2020**, 94, 44-47	3.4	9
69	Mimicking Sampson's Retrograde Menstrual Theory in Rats: A New Rat Model for Ongoing Endometriosis-Associated Pain. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	3
68	Functional expression of the mechanosensitive PIEZO1 channel in primary endometrial epithelial cells and endometrial organoids. *Scientific Reports*, **2019**, 9, 1779	4.9	22

67	Patient-derived organoids from endometrial disease capture clinical heterogeneity and are amenable to drug screening. *Nature Cell Biology*, **2019**, 21, 1041-1051	23.4	146
66	Heat sensing involves a TRiPlet of ion channels. *British Journal of Pharmacology*, **2019**, 176, 3893-3898	8.6	9
65	Targeting TRP Channels - Valuable Alternatives to Combat Pain, Lower Urinary Tract Disorders, and Type 2 Diabetes?. *Trends in Pharmacological Sciences*, **2019**, 40, 669-683	13.2	11
64	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	11.5	28
63	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Ion channels. *British Journal of Pharmacology*, **2019**, 176 Suppl 1, S142-S228	8.6	200
62	Transient Receptor Potential channels (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database. *IUPHAR/BPS Guide To Pharmacology CITE*, **2019**, 2019,	1.7	6
61	In vivo and ex vivo imaging of nociceptor expression and activity. *Journal of Cellular Neuroscience and Oxidative Stress*, **2019**, 11, 3-3	0.3	
60	Optimization of Endometrial Decidualization in the Menstruating Mouse Model for Preclinical Endometriosis Research. *Reproductive Sciences*, **2018**, 25, 1577-1588	3	8
59	Mutations in the voltage-sensing domain affect the alternative ion permeation pathway in the TRPM3 channel. *Journal of Physiology*, **2018**, 596, 2413-2432	3.9	17
58	Sensing the heat with TRPM3. *Pflugers Archiv European Journal of Physiology*, **2018**, 470, 799-807	4.6	27
57	A TRP channel trio mediates acute noxious heat sensing. *Nature*, **2018**, 555, 662-666	50.4	203
56	Of Mice and Women: A Laparoscopic Mouse Model for Endometriosis. *Journal of Minimally Invasive Gynecology*, **2018**, 25, 578-579	2.2	3
55	Functional Expression of TRP Ion Channels in Endometrial Stromal Cells of Endometriosis Patients. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	8
54	Establishing life is a calcium-dependent TRiP: Transient receptor potential channels in reproduction. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2018**, 1865, 1815-1829	4.9	10
53	The functional expression of transient receptor potential channels in the mouse endometrium. *Human Reproduction*, **2017**, 32, 615-630	5.7	16
52	TRP channel pores and local calcium signals. *Cell Calcium*, **2017**, 66, 19-24	4	32
51	Isolation of Mouse Endometrial Epithelial and Stromal Cells for In Vitro Decidualization. *Journal of Visualized Experiments*, **2017**,	1.6	17
50	Inhibition of the Glycolytic Activator PFKFB3 in Endothelium Induces Tumor Vessel Normalization, Impairs Metastasis, and Improves Chemotherapy. *Cancer Cell*, **2016**, 30, 968-985	24.3	325

49	A cellular pathway controlling functional plasma membrane incorporation of the cold sensor TRPM8. *Temperature*, **2016**, 3, 521-523	5.2	
48	Signature and Pathophysiology of Non-canonical Pores in Voltage-Dependent Cation Channels. *Reviews of Physiology, Biochemistry and Pharmacology*, **2016**, 170, 67-99	2.9	7
47	Laparoscopic Surgery: A New Technique to Induce Endometriosis in a Mouse Model. *Reproductive Sciences*, **2016**, 23, 1332-9	3	8
46	Urine of Preterm Neonates as a Novel Source of Kidney Progenitor Cells. *Journal of the American Society of Nephrology: JASN*, **2016**, 27, 2762-70	12.7	22
45	Definition of two agonist types at the mammalian cold-activated channel TRPM8. *ELife*, **2016**, 5,	8.9	15
44	TRPV4 is associated with central rather than nephrogenic osmoregulation. *Pflugers Archiv European Journal of Physiology*, **2016**, 468, 1595-607	4.6	17
43	VAMP7 regulates constitutive membrane incorporation of the cold-activated channel TRPM8. *Nature Communications*, **2016**, 7, 10489	17.4	32
42	TRPV1 dysfunction in cystinosis patients harboring the homozygous 57 kb deletion. *Scientific Reports*, **2016**, 6, 35395	4.9	11
41	TRPM3 in temperature sensing and beyond. *Temperature*, **2015**, 2, 201-13	5.2	45
40	Regulation of the transient receptor potential channel TRPM3 by phosphoinositides. *Journal of General Physiology*, **2015**, 146, 51-63	3.4	41
39	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	11.5	70
38	Functional expression of transient receptor potential channels in human endometrial stromal cells during the luteal phase of the menstrual cycle. *Human Reproduction*, **2015**, 30, 1421-36	5.7	29
37	TRPV4 participates in the establishment of trailing adhesions and directional persistence of migrating cells. *Pflugers Archiv European Journal of Physiology*, **2015**, 467, 2107-19	4.6	24
36	Molecular Determinants of the Trafficking of the Cold-activated Transient Receptor Potential Ion Channel Trpm8. *FASEB Journal*, **2015**, 29, 845.5	0.9	
35	Opening of an alternative ion permeation pathway in a nociceptor TRP channel. *Nature Chemical Biology*, **2014**, 10, 188-95	11.7	64
34	Peripheral thermosensation in mammals. *Nature Reviews Neuroscience*, **2014**, 15, 573-89	13.5	230
33	Vascular hypoxic preconditioning relies on TRPV4-dependent calcium influx and proper intercellular gap junctions communication. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2012**, 32, 2241-9	9.4	42
32	Cholesterol loss during glutamate-mediated excitotoxicity. *EMBO Journal*, **2012**, 31, 1764-73	13	58

31	The Sheadache treeSvia umbellulone and TRPA1 activates the trigeminovascular system. *Brain*, **2012**, 135, 376-90	11.2	119
30	TRPM3 is a nociceptor channel involved in the detection of noxious heat. *Neuron*, **2011**, 70, 482-94	13.9	352
29	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, 19084-9	11.5	298
28	Functional characterization of transient receptor potential channels in mouse urothelial cells. *American Journal of Physiology - Renal Physiology*, **2010**, 298, F692-701	4.3	117
27	Dominant TRPV4 mutations in nonlethal and lethal metatropic dysplasia. *American Journal of Medical Genetics, Part A*, **2010**, 152A, 1169-77	2.5	71
26	TRPM1 forms ion channels associated with melanin content in melanocytes. *Science Signaling*, **2009**, 2, ra21	8.8	139
25	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, 307-15	11	148
24	Pharmacology of vanilloid transient receptor potential cation channels. *Molecular Pharmacology*, **2009**, 75, 1262-79	4.3	322
23	TRPV4-mediated calcium influx regulates terminal differentiation of osteoclasts. *Cell Metabolism*, **2008**, 8, 257-65	24.6	222
22	Role of cytochrome P450-dependent transient receptor potential V4 activation in flow-induced vasodilatation. *Cardiovascular Research*, **2008**, 80, 445-52	9.9	141
21	Herbal compounds and toxins modulating TRP channels. *Current Neuropharmacology*, **2008**, 6, 79-96	7.6	133
20	Role of caveolar compartmentation in endothelium-derived hyperpolarizing factor-mediated relaxation: Ca2+ signals and gap junction function are regulated by caveolin in endothelial cells. *Circulation*, **2008**, 117, 1065-74	16.7	178
19	Citral sensing by Transient [corrected] receptor potential channels in dorsal root ganglion neurons. *PLoS ONE*, **2008**, 3, e2082	3.7	83
18	63 TRPV4 IS LOCALISED ON UROTHELIUM: DOES IT PLAYA ROLE IN AFFERENT BLADDER SIGNALLING?. *European Urology Supplements*, **2007**, 6, 38	0.9	2
17	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, 440-50; discussion 451-3	2.3	31
16	A novel function of capsaicin-sensitive TRPV1 channels: involvement in cell migration. *Cell Calcium*, **2007**, 42, 17-25	4	116
15	Determinants of 4 alpha-phorbol sensitivity in transmembrane domains 3 and 4 of the cation channel TRPV4. *Journal of Biological Chemistry*, **2007**, 282, 12796-803	5.4	99
14	Testing of iatrogenic lingual nerve injury using a novel psychophysical method and oral reflexes. *International Journal of Oral and Maxillofacial Surgery*, **2007**, 36, 545-9	2.9	11

13	Deletion of the transient receptor potential cation channel TRPV4 impairs murine bladder voiding. *Journal of Clinical Investigation*, **2007**, 117, 3453-62	15.9	250
12	Modulation of the Ca2 permeable cation channel TRPV4 by cytochrome P450 epoxygenases in vascular endothelium. *Circulation Research*, **2005**, 97, 908-15	15.7	301
11	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	11.5	497
10	TRPV4 calcium entry channel: a paradigm for gating diversity. *American Journal of Physiology - Cell Physiology*, **2004**, 286, C195-205	5.4	350
9	TRPV channels and modulation by hepatocyte growth factor/scatter factor in human hepatoblastoma (HepG2) cells. *Cell Calcium*, **2004**, 36, 19-28	4	92
8	Invertebrate TRP proteins as functional models for mammalian channels. *Pflugers Archiv European Journal of Physiology*, **2004**, 449, 213-26	4.6	39
7	The TRPV4 channel: structure-function relationship and promiscuous gating behaviour. *Pflugers Archiv European Journal of Physiology*, **2003**, 446, 298-303	4.6	115
6	Modulation of TRPV4 gating by intra- and extracellular Ca2+. *Cell Calcium*, **2003**, 33, 489-95	4	108
5	Anandamide and arachidonic acid use epoxyeicosatrienoic acids to activate TRPV4 channels. *Nature* , **2003**, 424, 434-8	50.4	795
4	Molecular determinants of permeation through the cation channel TRPV4. *Journal of Biological Chemistry*, **2002**, 277, 33704-10	5.4	223
3	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, 47044-51	5.4	501
2	Activation of TRPV4 channels (hVRL-2/mTRP12) by phorbol derivatives. *Journal of Biological Chemistry*, **2002**, 277, 13569-77	5.4	473
1	Upregulation of TRPM3 drives hyperexcitability in nociceptors innervating inflamed tissue		1