

# Marc Freichel

## List of Publications by Citations

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115  
papers

6,052  
citations

47  
h-index

76  
g-index

125  
ext. papers

6,896  
ext. citations

8.7  
avg, IF

5.15  
L-index

#	Paper	IF	Citations
115	Lack of an endothelial store-operated Ca <sup>2+</sup> current impairs agonist-dependent vasorelaxation in TRP4 <sup>-/-</sup> mice. <i>Nature Cell Biology</i> , <b>2001</b> , 3, 121-7	23.4	492
114	Impairment of store-operated Ca <sup>2+</sup> entry in TRPC4 <sup>(-/-)</sup> mice interferes with increase in lung microvascular permeability. <i>Circulation Research</i> , <b>2002</b> , 91, 70-6	15.7	325
113	TRPC3 channels are required for synaptic transmission and motor coordination. <i>Neuron</i> , <b>2008</b> , 59, 392-8	13.9	314
112	Voltage dependence of the Ca <sup>2+</sup> -activated cation channel TRPM4. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 30813-20	5.4	255
111	Trp12, a novel Trp related protein from kidney. <i>FEBS Letters</i> , <b>2000</b> , 485, 127-34	3.8	243
110	Increased IgE-dependent mast cell activation and anaphylactic responses in mice lacking the calcium-activated nonselective cation channel TRPM4. <i>Nature Immunology</i> , <b>2007</b> , 8, 312-20	19.1	212
109	De novo expression of Trpm4 initiates secondary hemorrhage in spinal cord injury. <i>Nature Medicine</i> , <b>2009</b> , 15, 185-91	50.5	163
108	TRPM4 cation channel mediates axonal and neuronal degeneration in experimental autoimmune encephalomyelitis and multiple sclerosis. <i>Nature Medicine</i> , <b>2012</b> , 18, 1805-11	50.5	140
107	Activation of TRPC6 channels is essential for lung ischaemia-reperfusion induced oedema in mice. <i>Nature Communications</i> , <b>2012</b> , 3, 649	17.4	137
106	Isoform-specific inhibition of TRPC4 channel by phosphatidylinositol 4,5-bisphosphate. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 10026-36	5.4	136
105	Deletion of TRPC4 and TRPC6 in mice impairs smooth muscle contraction and intestinal motility in vivo. <i>Gastroenterology</i> , <b>2009</b> , 137, 1415-24	13.3	134
104	TRPC3 and TRPC6 are essential for normal mechanotransduction in subsets of sensory neurons and cochlear hair cells. <i>Open Biology</i> , <b>2012</b> , 2, 120068	7	106
103	The Ca <sup>(2+)</sup> sensor stromal interaction molecule 1 (STIM1) is necessary and sufficient for the store-operated Ca <sup>(2+)</sup> entry function of transient receptor potential canonical (TRPC) 1 and 4 channels in endothelial cells. <i>Molecular Pharmacology</i> , <b>2012</b> , 81, 510-26	4.3	106
102	Increased catecholamine secretion contributes to hypertension in TRPM4-deficient mice. <i>Journal of Clinical Investigation</i> , <b>2010</b> , 120, 3267-79	15.9	106
101	Dicarbonyls and Advanced Glycation End-Products in the Development of Diabetic Complications and Targets for Intervention. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	104
100	Removal of Ca <sup>2+</sup> channel beta3 subunit enhances Ca <sup>2+</sup> oscillation frequency and insulin exocytosis. <i>Cell</i> , <b>2004</b> , 119, 273-84	56.2	100
99	Contribution of transient receptor potential channels to the control of GABA release from dendrites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 16065-70	11.5	97

98	Canonical transient receptor channel 5 (TRPC5) and TRPC1/4 contribute to seizure and excitotoxicity by distinct cellular mechanisms. <i>Molecular Pharmacology</i> , <b>2013</b> , 83, 429-38	4.3	92
97	Critical role for the beta regulatory subunits of Cav channels in T lymphocyte function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 15529-34	11.5	89
96	Reduced cardiac L-type Ca <sup>2+</sup> current in Ca(V)beta2 <sup>-/-</sup> embryos impairs cardiac development and contraction with secondary defects in vascular maturation. <i>Circulation Research</i> , <b>2006</b> , 99, 749-57	15.7	84
95	TRPM4 regulates migration of mast cells in mice. <i>Cell Calcium</i> , <b>2009</b> , 45, 226-32	4	81
94	Murine ORAI2 splice variants form functional Ca <sup>2+</sup> release-activated Ca <sup>2+</sup> (CRAC) channels. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 19375-84	5.4	79
93	Male fertility depends on Ca <sup>2+</sup> absorption by TRPV6 in epididymal epithelia. <i>Science Signaling</i> , <b>2011</b> , 4, ra27	8.8	76
92	Functional role of TRPC proteins in native systems: implications from knockout and knock-down studies. <i>Journal of Physiology</i> , <b>2005</b> , 567, 59-66	3.9	74
91	The Gq signalling pathway inhibits brown and beige adipose tissue. <i>Nature Communications</i> , <b>2016</b> , 7, 10895	17.4	73
90	A background Ca <sup>2+</sup> entry pathway mediated by TRPC1/TRPC4 is critical for development of pathological cardiac remodelling. <i>European Heart Journal</i> , <b>2015</b> , 36, 2257-66	9.5	73
89	Heteromeric channels formed by TRPC1, TRPC4 and TRPC5 define hippocampal synaptic transmission and working memory. <i>EMBO Journal</i> , <b>2017</b> , 36, 2770-2789	13	72
88	Paradoxical block of parathormone secretion is mediated by increased activity of G alpha subunits. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 6763-9	5.4	69
87	Lung endothelial Ca <sup>2+</sup> and permeability response to platelet-activating factor is mediated by acid sphingomyelinase and transient receptor potential classical 6. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2012</b> , 185, 160-70	10.2	66
86	The TRPV6 gene, cDNA and protein. <i>Cell Calcium</i> , <b>2003</b> , 33, 509-18	4	66
85	Heteromeric canonical transient receptor potential 1 and 4 channels play a critical role in epileptiform burst firing and seizure-induced neurodegeneration. <i>Molecular Pharmacology</i> , <b>2012</b> , 81, 384-92	4.3	63
84	Ca <sup>2+</sup> entry via TRPC channels is necessary for thrombin-induced NF-kappaB activation in endothelial cells through AMP-activated protein kinase and protein kinase Cdelta. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 563-574	5.4	60
83	Heart rate contributes to the vascular effects of chronic mental stress: effects on endothelial function and ischemic brain injury in mice. <i>Stroke</i> , <b>2011</b> , 42, 1742-9	6.7	60
82	Novel insights into the mechanisms mediating the local antihypertrophic effects of cardiac atrial natriuretic peptide: role of cGMP-dependent protein kinase and RGS2. <i>Basic Research in Cardiology</i> , <b>2010</b> , 105, 583-95	11.8	60
81	A proteolytic fragment of histone deacetylase 4 protects the heart from failure by regulating the hexosamine biosynthetic pathway. <i>Nature Medicine</i> , <b>2018</b> , 24, 62-72	50.5	59

80	Transient receptor potential channels function as a coincidence signal detector mediating phosphatidyserine exposure. <i>Science Signaling</i> , <b>2013</b> , 6, ra50	8.8	58
79	Pain perception in mice lacking the beta3 subunit of voltage-activated calcium channels. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 40342-51	5.4	57
78	Increased $\beta$ -adrenergic inotropy in ventricular myocardium from Trpm4 <sup>-/-</sup> mice. <i>Circulation Research</i> , <b>2014</b> , 114, 283-94	15.7	54
77	Store-operated cation channels in the heart and cells of the cardiovascular system. <i>Cellular Physiology and Biochemistry</i> , <b>1999</b> , 9, 270-83	3.9	53
76	NMDA receptor-dependent synaptic activation of TRPC channels in olfactory bulb granule cells. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 5737-46	6.6	51
75	The Role of TRP Proteins in Mast Cells. <i>Frontiers in Immunology</i> , <b>2012</b> , 3, 150	8.4	51
74	Modulation of Ca <sup>2+</sup> signaling by Na <sup>+</sup> /Ca <sup>2+</sup> exchangers in mast cells. <i>Journal of Immunology</i> , <b>2005</b> , 174, 119-30	5.3	51
73	Defective survival of naive CD8 <sup>+</sup> T lymphocytes in the absence of the beta3 regulatory subunit of voltage-gated calcium channels. <i>Nature Immunology</i> , <b>2009</b> , 10, 1275-82	19.1	50
72	The Sur1-Trpm4 channel regulates NOS2 transcription in TLR4-activated microglia. <i>Journal of Neuroinflammation</i> , <b>2016</b> , 13, 130	10.1	49
71	Synaptobrevin2 is the v-SNARE required for cytotoxic T-lymphocyte lytic granule fusion. <i>Nature Communications</i> , <b>2013</b> , 4, 1439	17.4	49
70	Functional TRPV6 channels are crucial for transepithelial Ca <sup>2+</sup> absorption. <i>American Journal of Physiology - Renal Physiology</i> , <b>2012</b> , 303, G879-85	5.1	49
69	Loss of Glyoxalase 1 Induces Compensatory Mechanism to Achieve Dicarbonyl Detoxification in Mammalian Schwann Cells. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 3224-3238	5.4	48
68	Excision of Trpv6 gene leads to severe defects in epididymal Ca <sup>2+</sup> absorption and male fertility much like single D541A pore mutation. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 17930-41	5.4	47
67	Moderate calcium channel dysfunction in adult mice with inducible cardiomyocyte-specific excision of the cacnb2 gene. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 15875-82	5.4	44
66	Diversity and developmental expression of L-type calcium channel beta2 proteins and their influence on calcium current in murine heart. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 30129-37	5.4	42
65	The Ca(2+)-activated cation channel TRPM4 is a negative regulator of angiotensin II-induced cardiac hypertrophy. <i>Basic Research in Cardiology</i> , <b>2015</b> , 110, 43	11.8	40
64	A cardiac pathway of cyclic GMP-independent signaling of guanylyl cyclase A, the receptor for atrial natriuretic peptide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 18500-5	11.5	40
63	Mechanism of stretch-induced activation of the mechanotransducer zyxin in vascular cells. <i>Science Signaling</i> , <b>2012</b> , 5, ra91	8.8	39

62	TRPC4- and TRPC4-containing channels. <i>Handbook of Experimental Pharmacology</i> , <b>2014</b> , 222, 85-128	3.2	34
61	The transient receptor potential channel TRPV6 is dynamically expressed in bone cells but is not crucial for bone mineralization in mice. <i>Journal of Cellular Physiology</i> , <b>2012</b> , 227, 1951-9	7	33
60	Variants That Affect Function of Calcium Channel TRPV6 Are Associated With Early-Onset Chronic Pancreatitis. <i>Gastroenterology</i> , <b>2020</b> , 158, 1626-1641.e8	13.3	32
59	Specific detection and semi-quantitative analysis of TRPC4 protein expression by antibodies. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2005</b> , 451, 81-6	4.6	30
58	Regulation of the pleiotropic effects of tissue-resident mast cells. <i>Journal of Allergy and Clinical Immunology</i> , <b>2019</b> , 144, S31-S45	11.5	29
57	The auxiliary subunit gamma 1 of the skeletal muscle L-type Ca <sup>2+</sup> channel is an endogenous Ca <sup>2+</sup> antagonist. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 17885-90	11.5	29
56	Compensatory mechanisms for methylglyoxal detoxification in experimental & clinical diabetes. <i>Molecular Metabolism</i> , <b>2018</b> , 18, 143-152	8.8	28
55	Altered inactivation of Ca <sup>2+</sup> current and Ca <sup>2+</sup> release in mouse muscle fibers deficient in the DHP receptor gamma1 subunit. <i>Journal of General Physiology</i> , <b>2004</b> , 124, 605-18	3.4	27
54	Deletion of Orai2 augments endogenous CRAC currents and degranulation in mast cells leading to enhanced anaphylaxis. <i>Cell Calcium</i> , <b>2018</b> , 71, 24-33	4	24
53	TRPM4-dependent post-synaptic depolarization is essential for the induction of NMDA receptor-dependent LTP in CA1 hippocampal neurons. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2016</b> , 468, 593-607	4.6	23
52	Increase in cytosolic Ca <sup>2+</sup> produced by hypoxia and other depolarizing stimuli activates a non-selective cation channel in chemoreceptor cells of rat carotid body. <i>Journal of Physiology</i> , <b>2014</b> , 592, 1975-92	3.9	22
51	The role of cGMP/cGKI signalling and Trpc channels in regulation of vascular tone. <i>Cardiovascular Research</i> , <b>2013</b> , 100, 280-7	9.9	19
50	TRPC proteins contribute to development of diabetic retinopathy and regulate glyoxalase 1 activity and methylglyoxal accumulation. <i>Molecular Metabolism</i> , <b>2018</b> , 9, 156-167	8.8	18
49	Crucial role of TRPC1 and TRPC4 in cystitis-induced neuronal sprouting and bladder overactivity. <i>PLoS ONE</i> , <b>2013</b> , 8, e69550	3.7	18
48	Functional interaction between TRP4 and CFTR in mouse aorta endothelial cells. <i>BMC Physiology</i> , <b>2001</b> , 1, 3	0	17
47	TRPC1 deficiency or blockade augments systemic anaphylaxis and mast cell activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 18068-18078	11.5	17
46	TRPC4/TRPC5 channels mediate adverse reaction to the cancer cell cytotoxic agent (-)-Englerin A. <i>Oncotarget</i> , <b>2018</b> , 9, 29634-29643	3.3	17
45	Dual depolarization responses generated within the same lateral septal neurons by TRPC4-containing channels. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2014</b> , 466, 1301-16	4.6	16

44	TRPC4 and TRPC4-Deficient Mice. <i>Novartis Foundation Symposium</i> , <b>2008</b> , 189-203		16
43	Lipid-independent control of endothelial and neuronal TRPC3 channels by light. <i>Chemical Science</i> , <b>2019</b> , 10, 2837-2842	9.4	14
42	Essential roles for Cav $\beta$ 2 and Cav1 channels in thymocyte development and T cell homeostasis. <i>Science Signaling</i> , <b>2015</b> , 8, ra103	8.8	14
41	Maternal Transient Receptor Potential Vanilloid 6 (Trpv6) Is Involved In Offspring Bone Development. <i>Journal of Bone and Mineral Research</i> , <b>2019</b> , 34, 699-710	6.3	13
40	TRPC channels regulate Ca <sup>2+</sup> -signaling and short-term plasticity of fast glutamatergic synapses. <i>PLoS Biology</i> , <b>2019</b> , 17, e3000445	9.7	12
39	Adenylyl cyclase-mediated effects contribute to increased Isoprenaline-induced cardiac contractility in TRPM4-deficient mice. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2014</b> , 74, 307-17	5.8	12
38	Does Erythropoietin Regulate TRPC Channels in Red Blood Cells?. <i>Cellular Physiology and Biochemistry</i> , <b>2017</b> , 41, 1219-1228	3.9	12
37	Novel Endothelial Cell-Specific AQP1 Knockout Mice Confirm the Crucial Role of Endothelial AQP1 in Ultrafiltration during Peritoneal Dialysis. <i>PLoS ONE</i> , <b>2016</b> , 11, e0145513	3.7	12
36	Odontoblast TRPC5 channels signal cold pain in teeth. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	12
35	Trpc5 deficiency causes hypoprolactinemia and altered function of oscillatory dopamine neurons in the arcuate nucleus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 15236-15243	11.5	11
34	Functional Characterization of Transient Receptor Potential (TRP) Channel C5 in Female Murine Gonadotropes. <i>Endocrinology</i> , <b>2017</b> , 158, 887-902	4.8	11
33	Ba <sup>2+</sup> currents in inner and outer hair cells of mice lacking the voltage-dependent Ca <sup>2+</sup> channel subunits beta3 or beta4. <i>Channels</i> , <b>2009</b> , 3, 366-76	3	11
32	Modulation of recombinant transient-receptor-potential-like (TRPL) channels by cytosolic Ca <sup>2+</sup> . <i>Pflügers Archiv European Journal of Physiology</i> , <b>2000</b> , 440, 409-17	4.6	11
31	Methylglyoxal evokes acute Ca transients in distinct cell types and increases agonist-evoked Ca entry in endothelial cells via CRAC channels. <i>Cell Calcium</i> , <b>2019</b> , 78, 66-75	4	10
30	TRPM4-mediated control of Fc $\beta$ I-evoked Ca(2+) elevation comprises enhanced plasmalemmal trafficking of TRPM4 channels in connective tissue type mast cells. <i>Scientific Reports</i> , <b>2016</b> , 6, 32981	4.9	9
29	Contractility Measurements on Isolated Papillary Muscles for the Investigation of Cardiac Inotropy in Mice. <i>Journal of Visualized Experiments</i> , <b>2015</b> ,	1.6	8
28	Ca <sup>2+</sup> channel currents and contraction in CaVbeta3-deficient ileum smooth muscle from mouse. <i>Cell Calcium</i> , <b>2007</b> , 42, 477-87	4	8
27	Cardiomyocyte-Specific Deletion of Orai1 Reveals Its Protective Role in Angiotensin-II-Induced Pathological Cardiac Remodeling. <i>Cells</i> , <b>2020</b> , 9,	7.9	7

26	Contribution of NAADP to Glutamate-Evoked Changes in Ca Homeostasis in Mouse Hippocampal Neurons. <i>Frontiers in Cell and Developmental Biology</i> , <b>2020</b> , 8, 496	5.7	7
25	Analysis of Mrgprb2 Receptor-Evoked Ca Signaling in Bone Marrow Derived (BMMC) and Peritoneal (PMC) Mast Cells of TRPC-Deficient Mice. <i>Frontiers in Immunology</i> , <b>2020</b> , 11, 564	8.4	7
24	Saraf-dependent activation of mTORC1 regulates cardiac growth. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2020</b> , 141, 30-42	5.8	6
23	TRPM4 Modulates Right Ventricular Remodeling Under Pressure Load Accompanied With Decreased Expression Level. <i>Journal of Cardiac Failure</i> , <b>2020</b> , 26, 599-609	3.3	6
22	TRPC channels are not required for graded persistent activity in entorhinal cortex neurons. <i>Hippocampus</i> , <b>2019</b> , 29, 1038-1048	3.5	5
21	TRPC1/4/5 channels contribute to morphine-induced analgesic tolerance and hyperalgesia by enhancing spinal synaptic potentiation and structural plasticity. <i>FASEB Journal</i> , <b>2020</b> , 34, 8526-8543	0.9	5
20	Cyclic regulation of Trpm4 expression in female vomeronasal neurons driven by ovarian sex hormones. <i>Molecular and Cellular Neurosciences</i> , <b>2020</b> , 105, 103495	4.8	5
19	Angiotensin-II-Evoked Ca Entry in Murine Cardiac Fibroblasts Does Not Depend on TRPC Channels. <i>Cells</i> , <b>2020</b> , 9,	7.9	4
18	RNA-seq analysis reveals TRPC genes to impact an unexpected number of metabolic and regulatory pathways. <i>Scientific Reports</i> , <b>2020</b> , 10, 7227	4.9	4
17	Genetic background influences expression and function of the cation channel TRPM4 in the mouse heart. <i>Basic Research in Cardiology</i> , <b>2020</b> , 115, 70	11.8	4
16	Enhancing mitochondrial activity in neurons protects against neurodegeneration in a mouse model of multiple sclerosis. <i>ELife</i> , <b>2021</b> , 10,	8.9	4
15	Isolation of Peritoneum-derived Mast Cells and Their Functional Characterization with Ca <sup>2+</sup> -imaging and Degranulation Assays. <i>Journal of Visualized Experiments</i> , <b>2018</b> ,	1.6	3
14	9-Phenanthrol enhances the generation of an CD8 T cell response following transcutaneous immunization with imiquimod in mice. <i>Journal of Dermatological Science</i> , <b>2017</b> , 87, 260-267	4.3	3
13	TRPV4-Mediated Regulation of the Blood Brain Barrier Is Abolished During Inflammation. <i>Frontiers in Cell and Developmental Biology</i> , <b>2020</b> , 8, 849	5.7	3
12	Assessment of PEEP-Ventilation and the Time Point of Parallel-Conductance Determination for Pressure-Volume Analysis Under $\beta$ -Adrenergic Stimulation in Mice. <i>Frontiers in Cardiovascular Medicine</i> , <b>2019</b> , 6, 36	5.4	2
11	A Global Cndp1-Knock-Out Selectively Increases Renal Carnosine and Anserine Concentrations in an Age- and Gender-Specific Manner in Mice. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	2
10	Development of an AAV9-RNAi-mediated silencing strategy to abrogate TRPM4 expression in the adult heart. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2021</b> , 473, 533-546	4.6	2
9	Boosting targeted genome editing using the hei-tag.. <i>ELife</i> , <b>2022</b> , 11,	8.9	2



8	Emergent Temporal Signaling in Human Trabecular Meshwork Cells: Role of TRPV4-TRPM4 Interactions.. <i>Frontiers in Immunology</i> , <b>2022</b> , 13, 805076	8.4	2
7	Contribution of TRPC Channels in Neuronal Excitotoxicity Associated With Neurodegenerative Disease and Ischemic Stroke. <i>Frontiers in Cell and Developmental Biology</i> , <b>2020</b> , 8, 618663	5.7	1
6	Novel Nongenetic Murine Model of Hyperglycemia and Hyperlipidemia-Associated Aggravated Atherosclerosis.. <i>Frontiers in Cardiovascular Medicine</i> , <b>2022</b> , 9, 813215	5.4	1
5	Trophectoderm cell failure leads to peri-implantation lethality in Trpm7-deficient mouse embryos. <i>Cell Reports</i> , <b>2021</b> , 37, 109851	10.6	0
4	Transcriptional signatures regulated by TRPC1/C4-mediated Background Ca entry after pressure-overload induced cardiac remodelling. <i>Progress in Biophysics and Molecular Biology</i> , <b>2021</b> , 159, 86-104	4.7	0
3	Deep Metabolic Profiling Assessment of Tissue Extraction Protocols for Three Model Organisms.. <i>Frontiers in Chemistry</i> , <b>2022</b> , 10, 869732	5	0
2	L-type blocker STIMulate Ca entry in synthetic VSMCs. <i>Cell Calcium</i> , <b>2020</b> , 91, 102279	4	
1	Activity of Glyoxylase 1 is regulated by a glucose-responsive phosphorylation on Tyr136. <i>Molecular Metabolism</i> , <b>2021</b> , 101406	8.8	