Boris Musset

List of Publications by Year in Descending Order

34 papers	1,655 citations	21 h-index	40 g-index
54 ext. papers	1,891 ext. citations	4.7 avg, IF	4.03 L-index

#	Paper	IF	Citations
34	Zinc accelerates respiratory burst termination in human PMN. *Redox Biology*, **2021**, 47, 102133	11.3	0
33	Zinc modulation of proton currents in a new voltage-gated proton channel suggests a mechanism of inhibition. *FEBS Journal*, **2020**, 287, 4996-5018	5.7	6
32	Engineered high-affinity zinc binding site reveals gating configurations of a human proton channel. *Journal of General Physiology*, **2020**, 152,	3.4	2
31	Assessing Structural Determinants of Zn Binding to Human H1 via Multiple MD Simulations. *Biophysical Journal*, **2020**, 118, 1221-1233	2.9	5
30	Hydrophobic gasket mutation produces gating pore currents in closed human voltage-gated proton channels. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 18951-18961	11.5	19
29	The function of TRP channels in neutrophil granulocytes. *Pflugers Archiv European Journal of Physiology*, **2018**, 470, 1017-1033	4.6	14
28	Identification of an HV 1 voltage-gated proton channel in insects. *FEBS Journal*, **2016**, 283, 1453-64	5.7	14
27	Insights into the structure and function of HV1 from a meta-analysis of mutation studies. *Journal of General Physiology*, **2016**, 148, 97-118	3.4	20
26	Selectivity Mechanism of the Voltage-gated Proton Channel, HV1. *Scientific Reports*, **2015**, 5, 10320	4.9	41
25	Tryptophan 207 is crucial to the unique properties of the human voltage-gated proton channel, hHV1. *Journal of General Physiology*, **2015**, 146, 343-56	3.4	31
24	Proton Channels are Present in Cell Membranes of the Breast Cancer Cell Line MDA MB 231 and Affect Recovery from an Acid Load. *Biophysical Journal*, **2015**, 108, 587a	2.9	2
23	Enhanced activation of an amino-terminally truncated isoform of the voltage-gated proton channel HVCN1 enriched in malignant B cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 18078-83	11.5	47
22	Construction and validation of a homology model of the human voltage-gated proton channel hHV1. *Journal of General Physiology*, **2013**, 141, 445-65	3.4	59
21	Peregrination of the selectivity filter delineates the pore of the human voltage-gated proton channel hHV1. *Journal of General Physiology*, **2013**, 142, 625-40	3.4	30
20	NOX5 in human spermatozoa: expression, function, and regulation. *Journal of Biological Chemistry*, **2012**, 287, 9376-88	5.4	104
19	Biophysical properties of the voltage gated proton channel H(V)1. *Environmental Sciences Europe*, **2012**, 1, 605-620	5	19
18	Strong glucose dependence of electron current in human monocytes. *American Journal of Physiology - Cell Physiology*, **2012**, 302, C286-95	5.4	20

17	Aspartate 112 is the selectivity filter of the human voltage-gated proton channel. *Nature*, **2011**, 480, 273-7	50.4	121
16	Voltage-gated proton channel in a dinoflagellate. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 18162-7	11.5	86
15	Zinc inhibition of monomeric and dimeric proton channels suggests cooperative gating. *Journal of Physiology*, **2010**, 588, 1435-49	3.9	80
14	HVCN1 modulates BCR signal strength via regulation of BCR-dependent generation of reactive oxygen species. *Nature Immunology*, **2010**, 11, 265-72	19.1	164
13	Oligomerization of the voltage-gated proton channel. *Channels*, **2010**, 4, 260-5	3	21
12	Identification of Thr29 as a critical phosphorylation site that activates the human proton channel Hvcn1 in leukocytes. *Journal of Biological Chemistry*, **2010**, 285, 5117-21	5.4	47
11	Voltage-gated proton channels maintain pH in human neutrophils during phagocytosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 18022-7	11.5	130
10	The intimate and mysterious relationship between proton channels and NADPH oxidase. *FEBS Letters*, **2009**, 583, 7-12	3.8	38
9	Electron Current and Proton Current in Activated Human Monocytes - Strong Glucose Dependence of the Electron Current. *Biophysical Journal*, **2009**, 96, 667a-668a	2.9	2
8	Detailed comparison of expressed and native voltage-gated proton channel currents. *Journal of Physiology*, **2008**, 586, 2477-86	3.9	66
7	A pH-stabilizing role of voltage-gated proton channels in IgE-mediated activation of human basophils. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 11020-5	11.5	65
6	The Voltage-Gated Proton Channel HVCN1 Co-Localizes with B Cell Receptor and Is Involved in Class Switch Recombination in Vivo. *Blood*, **2008**, 112, 707-707	2.2	3
5	Subunit-dependent modulation of the 5-hydroxytryptamine type 3 receptor open-close equilibrium by n-alcohols. *Journal of Pharmacology and Experimental Therapeutics*, **2007**, 321, 1069-74	4.7	21
4	Effects of divalent cations and spermine on the K+ channel TASK-3 and on the outward current in thalamic neurons. *Journal of Physiology*, **2006**, 572, 639-57	3.9	57
3	"Host tissue damage" signal ATP promotes non-directional migration and negatively regulates toll-like receptor signaling in human monocytes. *Journal of Biological Chemistry*, **2005**, 280, 32459-67	5.4	66
2	Extracellular ATP induces oscillations of intracellular Ca2+ and membrane potential and promotes transcription of IL-6 in macrophages. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 9479-84	11.5	134
1	Interaction with 14-3-3 proteins promotes functional expression of the potassium channels TASK-1 and TASK-3. *Journal of Physiology*, **2002**, 545, 13-26	3.9	115