

# Boris Musset

## List of Publications by Citations

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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	HVCN1 modulates BCR signal strength via regulation of BCR-dependent generation of reactive oxygen species. <i>Nature Immunology</i> , <b>2010</b> , 11, 265-72	19.1	164
33	Extracellular ATP induces oscillations of intracellular Ca <sup>2+</sup> and membrane potential and promotes transcription of IL-6 in macrophages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 9479-84	11.5	134
32	Voltage-gated proton channels maintain pH in human neutrophils during phagocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 18022-7	11.5	130
31	Aspartate 112 is the selectivity filter of the human voltage-gated proton channel. <i>Nature</i> , <b>2011</b> , 480, 273-7	50.4	121
30	Interaction with 14-3-3 proteins promotes functional expression of the potassium channels TASK-1 and TASK-3. <i>Journal of Physiology</i> , <b>2002</b> , 545, 13-26	3.9	115
29	NOX5 in human spermatozoa: expression, function, and regulation. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 9376-88	5.4	104
28	Voltage-gated proton channel in a dinoflagellate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 18162-7	11.5	86
27	Zinc inhibition of monomeric and dimeric proton channels suggests cooperative gating. <i>Journal of Physiology</i> , <b>2010</b> , 588, 1435-49	3.9	80
26	Detailed comparison of expressed and native voltage-gated proton channel currents. <i>Journal of Physiology</i> , <b>2008</b> , 586, 2477-86	3.9	66
25	"Host tissue damage" signal ATP promotes non-directional migration and negatively regulates toll-like receptor signaling in human monocytes. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 32459-67	5.4	66
24	A pH-stabilizing role of voltage-gated proton channels in IgE-mediated activation of human basophils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 11020-5	11.5	65
23	Construction and validation of a homology model of the human voltage-gated proton channel hHV1. <i>Journal of General Physiology</i> , <b>2013</b> , 141, 445-65	3.4	59
22	Effects of divalent cations and spermine on the K <sup>+</sup> channel TASK-3 and on the outward current in thalamic neurons. <i>Journal of Physiology</i> , <b>2006</b> , 572, 639-57	3.9	57
21	Enhanced activation of an amino-terminally truncated isoform of the voltage-gated proton channel HVCN1 enriched in malignant B cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 18078-83	11.5	47
20	Identification of Thr29 as a critical phosphorylation site that activates the human proton channel Hvcn1 in leukocytes. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 5117-21	5.4	47
19	Selectivity Mechanism of the Voltage-gated Proton Channel, HV1. <i>Scientific Reports</i> , <b>2015</b> , 5, 10320	4.9	41
18	The intimate and mysterious relationship between proton channels and NADPH oxidase. <i>FEBS Letters</i> , <b>2009</b> , 583, 7-12	3.8	38

17	Tryptophan 207 is crucial to the unique properties of the human voltage-gated proton channel, hHV1. <i>Journal of General Physiology</i> , <b>2015</b> , 146, 343-56	3-4	31
16	Peregrination of the selectivity filter delineates the pore of the human voltage-gated proton channel hHV1. <i>Journal of General Physiology</i> , <b>2013</b> , 142, 625-40	3-4	30
15	Oligomerization of the voltage-gated proton channel. <i>Channels</i> , <b>2010</b> , 4, 260-5	3	21
14	Subunit-dependent modulation of the 5-hydroxytryptamine type 3 receptor open-close equilibrium by n-alcohols. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2007</b> , 321, 1069-74	4-7	21
13	Strong glucose dependence of electron current in human monocytes. <i>American Journal of Physiology - Cell Physiology</i> , <b>2012</b> , 302, C286-95	5-4	20
12	Insights into the structure and function of HV1 from a meta-analysis of mutation studies. <i>Journal of General Physiology</i> , <b>2016</b> , 148, 97-118	3-4	20
11	Biophysical properties of the voltage gated proton channel H(V)1. <i>Environmental Sciences Europe</i> , <b>2012</b> , 1, 605-620	5	19
10	Hydrophobic gasket mutation produces gating pore currents in closed human voltage-gated proton channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 18951-18961	11.5	19
9	The function of TRP channels in neutrophil granulocytes. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2018</b> , 470, 1017-1033	4.6	14
8	Identification of an HV 1 voltage-gated proton channel in insects. <i>FEBS Journal</i> , <b>2016</b> , 283, 1453-64	5.7	14
7	Zinc modulation of proton currents in a new voltage-gated proton channel suggests a mechanism of inhibition. <i>FEBS Journal</i> , <b>2020</b> , 287, 4996-5018	5.7	6
6	Assessing Structural Determinants of Zn Binding to Human H1 via Multiple MD Simulations. <i>Biophysical Journal</i> , <b>2020</b> , 118, 1221-1233	2.9	5
5	The Voltage-Gated Proton Channel HVCN1 Co-Localizes with B Cell Receptor and Is Involved in Class Switch Recombination in Vivo. <i>Blood</i> , <b>2008</b> , 112, 707-707	2.2	3
4	Proton Channels are Present in Cell Membranes of the Breast Cancer Cell Line MDA MB 231 and Affect Recovery from an Acid Load. <i>Biophysical Journal</i> , <b>2015</b> , 108, 587a	2.9	2
3	Electron Current and Proton Current in Activated Human Monocytes - Strong Glucose Dependence of the Electron Current. <i>Biophysical Journal</i> , <b>2009</b> , 96, 667a-668a	2.9	2
2	Engineered high-affinity zinc binding site reveals gating configurations of a human proton channel. <i>Journal of General Physiology</i> , <b>2020</b> , 152,	3-4	2
1	Zinc accelerates respiratory burst termination in human PMN. <i>Redox Biology</i> , <b>2021</b> , 47, 102133	11.3	0