

Boris Musset

List of Publications by Year in descending order

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53
papers

2,076
citations

279778

23
h-index

276858

41
g-index

54
all docs

54
docs citations

54
times ranked

2019
citing authors

#	ARTICLE	IF	CITATIONS
1	HVCN1 modulates BCR signal strength via regulation of BCR-dependent generation of reactive oxygen species. <i>Nature Immunology</i> , 2010, 11, 265-272.	14.5	196
2	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> , 2009, 106, 18022-18027.	7.1	161
3	Aspartate ¹¹² is the selectivity filter of the human voltage-gated proton channel. <i>Nature</i> , 2011, 480, 273-277.	27.8	155
4	Extracellular ATP induces oscillations of intracellular Ca ²⁺ 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> , 2004, 101, 9479-9484.	7.1	153
5	NOX5 in Human Spermatozoa. <i>Journal of Biological Chemistry</i> , 2012, 287, 9376-9388.	3.4	135
6	Interaction with 14 ³⁻³ proteins promotes functional expression of the potassium channels TASK ¹ and TASK ³ . <i>Journal of Physiology</i> , 2002, 545, 13-26.	2.9	130
7	Voltage-gated proton channel in a dinoflagellate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18162-18167.	7.1	108
8	Zinc inhibition of monomeric and dimeric proton channels suggests cooperative gating. <i>Journal of Physiology</i> , 2010, 588, 1435-1449.	2.9	93
9	Detailed comparison of expressed and native voltage-gated proton channel currents. <i>Journal of Physiology</i> , 2008, 586, 2477-2486.	2.9	78
10	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> , 2005, 280, 32459-32467.	3.4	77
11	Construction and validation of a homology model of the human voltage-gated proton channel hHV1. <i>Journal of General Physiology</i> , 2013, 141, 445-465.	1.9	75
12	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> , 2008, 105, 11020-11025.	7.1	74
13	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> , 2014, 111, 18078-18083.	7.1	74
14	Effects of divalent cations and spermine on the K ⁺ channel TASK-3 and on the outward current in thalamic neurons. <i>Journal of Physiology</i> , 2006, 572, 639-657.	2.9	60
15	Identification of Thr29 as a Critical Phosphorylation Site That Activates the Human Proton Channel Hvcn1 in Leukocytes. <i>Journal of Biological Chemistry</i> , 2010, 285, 5117-5121.	3.4	59
16	Selectivity Mechanism of the Voltage-gated Proton Channel, HV1. <i>Scientific Reports</i> , 2015, 5, 10320.	3.3	53
17	The intimate and mysterious relationship between proton channels and NADPH oxidase. <i>FEBS Letters</i> , 2009, 583, 7-12.	2.8	43
18	Tryptophan 207 is crucial to the unique properties of the human voltage-gated proton channel, hHV1. <i>Journal of General Physiology</i> , 2015, 146, 343-356.	1.9	43

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19	Peregrination of the selectivity filter delineates the pore of the human voltage-gated proton channel hHV1. <i>Journal of General Physiology</i> , 2013, 142, 625-640.	1.9	41
20	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> , 2019, 116, 18951-18961.	7.1	35
21	Insights into the structure and function of HV1 from a meta-analysis of mutation studies. <i>Journal of General Physiology</i> , 2016, 148, 97-118.	1.9	31
22	Subunit-Dependent Modulation of the 5-Hydroxytryptamine Type 3 Receptor Open-Close Equilibrium by n-Alcohols. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007, 321, 1069-1074.	2.5	26
23	Strong glucose dependence of electron current in human monocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C286-C295.	4.6	24
24	Oligomerization of the voltage gated proton channel. <i>Channels</i> , 2010, 4, 260-265.	2.8	23
25	Biophysical properties of the voltage-gated proton channel H _V 1. <i>Environmental Sciences Europe</i> , 2012, 1, 605-620.	5.5	23
26	Identification of an H _V 1 voltage-gated proton channel in insects. <i>FEBS Journal</i> , 2016, 283, 1453-1464.	4.7	21
27	The function of TRP channels in neutrophil granulocytes. <i>Pflügers Archiv European Journal of Physiology</i> , 2018, 470, 1017-1033.	2.8	20
28	Assessing Structural Determinants of Zn ²⁺ Binding to Human HV1 via Multiple MD Simulations. <i>Biophysical Journal</i> , 2020, 118, 1221-1233.	0.5	12
29	Zinc modulation of proton currents in a new voltage-gated proton channel suggests a mechanism of inhibition. <i>FEBS Journal</i> , 2020, 287, 4996-5018.	4.7	12
30	Engineered high-affinity zinc binding site reveals gating configurations of a human proton channel. <i>Journal of General Physiology</i> , 2020, 152, .	1.9	8
31	The pH-dependent gating of the human voltage-gated proton channel from computational simulations. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 9964-9977.	2.8	8
32	Zinc accelerates respiratory burst termination in human PMN. <i>Redox Biology</i> , 2021, 47, 102133.	9.0	6
33	Voltage-gated proton channels in polyneopteran insects. <i>FEBS Open Bio</i> , 2022, 12, 523-537.	2.3	5
34	The Voltage-Gated Proton Channel HVCN1 Co-Localizes with B Cell Receptor and Is Involved in Class Switch Recombination in Vivo. <i>Blood</i> , 2008, 112, 707-707.	1.4	4
35	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> , 2015, 108, 587a.	0.5	3
36	Electron Current and Proton Current in Activated Human Monocytes - Strong Glucose Dependence of the Electron Current. <i>Biophysical Journal</i> , 2009, 96, 667a-668a.	0.5	2

#	ARTICLE	IF	CITATIONS
37	Identification of Phosphorylation Sites that Activate Voltage Gated Proton Channels in Leukocytes. Biophysical Journal, 2009, 96, 170a-171a.	0.5	1
38	A novel Voltage Gated Proton Channel in a Dinoflagellate. Biophysical Journal, 2011, 100, 284a.	0.5	1
39	A Homology Modeling-Simulation Protocol for Construction and Assessment of Hv1 Models. Biophysical Journal, 2012, 102, 266a.	0.5	1
40	Bioluminescence of Scintillons Isolated from Noctiluca Miliaris is Inhibited by Divalent Metal Cations, Suggesting Proton Channel Involvement. Biophysical Journal, 2012, 102, 575a.	0.5	1
41	Zinc Inhibition of an Insect Voltage-Gated Proton Channel. Biophysical Journal, 2018, 114, 492a.	0.5	1
42	Zinc Inhibition of Monomeric and Dimeric Proton Channels Suggests Cooperative Gating. Biophysical Journal, 2010, 98, 313a-314a.	0.5	0
43	Does Aspartate112 Mutation Convert the Human Voltage Gated Proton Channel into a Hydroxide Channel?. Biophysical Journal, 2012, 102, 576a.	0.5	0
44	Recharging the Phylogenetic Analysis of Voltage Sensor Domains. Biophysical Journal, 2012, 102, 333a.	0.5	0
45	The Selectivity Filter of Voltage Gated Proton Channels is an Aspartate in the S1 Transmembrane Domain. Biophysical Journal, 2012, 102, 334a.	0.5	0
46	Accessibility of the S4 Arginines in the Human Voltage Gated Proton Channel, hHV1. Biophysical Journal, 2013, 104, 276a.	0.5	0
47	Two Isoforms of the Human Voltage Gated Proton Channel hHV1. Biophysical Journal, 2013, 104, 276a.	0.5	0
48	Proton Channels in Normal and Malignant B Cells. Biophysical Journal, 2013, 104, 34a.	0.5	0
49	Selectivity Filter Scanning of the Human Voltage Gated Proton Channel Hhv1. Biophysical Journal, 2014, 106, 558a.	0.5	0
50	Enhanced Activation of an Amino-Terminally Truncated Isoform of Voltage-Gated Proton Channel HVCN1 Enriched in Malignant B cells. Biophysical Journal, 2015, 108, 20a.	0.5	0
51	An Insect Proton Channel. Biophysical Journal, 2016, 110, 119a.	0.5	0
52	Tryptophan 207 is Crucial to the Unique Properties of the Human Voltage Gated Proton Channel, hHv1. Biophysical Journal, 2016, 110, 601a.	0.5	0
53	Is the Hydrophobic Gasket a Secondary Selectivity Filter in the Human Voltage Gated Proton Channel HHV1?. Biophysical Journal, 2019, 116, 173a.	0.5	0