Byung-Chang Suh

List of Publications by Year
in descending order

53 papers	3,613 citations	430874 18 h-index	243625 44 g-index
55 all docs	55 docs citations	55 times ranked	3578 citing authors

#	Article	IF	Citations
1	Biophysical physiology of phosphoinositide rapid dynamics and regulation in living cells. Journal of General Physiology, 2022, 154, .	1.9	5
2	Compartmentalization of phosphatidylinositol 4,5-bisphosphate metabolism into plasma membrane liquid-ordered/raft domains. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	39
3	Differential Regulation of Ca2+-Activated Clâˆ’ Channel TMEM16A Splice Variants by Membrane PI(4,5)P2. International Journal of Molecular Sciences, 2021, 22, 4088.	4.1	9
4	Ethanol inhibits Kv7.2/7.3 channel open probability by reducing the PI(4,5)P₂ sensitivity of Kv7.2 subunit. BMB Reports, 2021, 54, 311-316.	2.4	2
5	Proprioception, the regulator of motor function. BMB Reports, 2021, 54, 393-402.	2.4	12
6	Posttranscriptional modulation of KCNQ2 gene expression by the miR-106b microRNA family. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	6
7	Allosteric modulation of alternatively spliced Ca²⁺-activated Cl^{âˆ’}channels TMEM16A by PI(4,5)P₂and CaMKII. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30787-30798.	7.1	17
8	Phosphatidylinositol 4,5-bisphosphate is regenerated by speeding of the PI 4-kinase pathway during long PLC activation. Journal of General Physiology, 2020, 152, .	1.9	20
9	Ethanol Elevates Excitability of Superior Cervical Ganglion Neurons by Inhibiting Kv7 Channels in a Cell Type-Specific and PI(4,5)P2-Dependent Manner. International Journal of Molecular Sciences, 2019, 20, 4419.	4.1	7
10	Rapid resensitization of ASIC2a is conferred by three amino acid residues in the N terminus. Journal of General Physiology, 2019, 151, 944-953.	1.9	1
11	Modulation mechanisms of voltage-gated calcium channels. Current Opinion in Physiology, 2018, 2, 77-83.	1.8	4
12	Translocatable voltage-gated Ca ²⁺ channel Î² subunits in Î±1â€“Î² complexes reveal competitive replacement yet no spontaneous dissociation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9934-E9943.	7.1	5
13	Molecular Mechanism of Voltage-Gated Ca2+ Channel Regulation by Membrane PIP2. Biophysical Journal, 2018, 114, 638a.	0.5	0
14	Ethanol Increases Neuronal Firing by Regulating PI(4,5)P2 Sensitivity of M-Type K+ Channels. Biophysical Journal, 2018, 114, 121a.	0.5	0
15	The HOOK region of voltage-gated Ca2+ channel Î² subunits senses and transmits PIP2 signals to the gate. Journal of General Physiology, 2017, 149, 261-276.	1.9	11
16	The HOOK region of Î² subunits controls gating of voltage-gated Ca2+ channels by electrostatically interacting with plasma membrane. Channels, 2017, 11, 467-475.	2.8	4
17	Stable Interaction between Voltage-Activated Ca 2+ Channel Î±1 and Î² Subunits Revealed by Translocatable Î² Systems. Biophysical Journal, 2017, 112, 244a.	0.5	0
18	Acid-Sensing Ion Channel 2a (ASIC2a) Promotes Surface Trafficking of ASIC2b via Heteromeric Assembly. Scientific Reports, 2016, 6, 30684.	3.3	10

#	Article	IF	Citations
19	Ca ²⁺ controls gating of voltage-gated calcium channels by releasing the Î²2e subunit from the plasma membrane. Science Signaling, 2016, 9, ra67.	3.6	8
20	Phosphoinositide 5- and 3-phosphatase activities of a voltage-sensing phosphatase in living cells show identical voltage dependence. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3686-95.	7.1	35
21	PI(4,5)P 2 and L-type Ca 2+ Channels Partner Up toÂFine-Tune Ca 2+ Dynamics in Î² Cells. Cell Chemical Biology, 2016, 23, 753-755.	5.2	0
22	Differential interaction of Î²2e with phosphoinositides: A comparative study between Î²2e and MARCKS. Channels, 2016, 10, 238-246.	2.8	5
23	Dual Regulation of R-Type CaV2.3 Channels by M1 Muscarinic Receptors. Molecules and Cells, 2016, 39, 322-329.	2.6	12
24	ASIC2a-dependent increase of ASIC3 surface expression enhances the sustained component of the currents. BMB Reports, 2016, 49, 542-547.	2.4	6
25	Dynamic phospholipid interaction of Î²2e subunit regulates the gating of voltage-gated Ca2+ channels. Journal of General Physiology, 2015, 145, 529-541.	1.9	14
26	Analysis of Phosphoinositideâ€Binding Properties and Subcellular Localization of GFPâ€Fusion Proteins. Lipids, 2015, 50, 427-436.	1.7	5
27	Molecular Basis of the Membrane Interaction of the Î²2e Subunit of Voltage-Gated Ca2+ Channels. Biophysical Journal, 2015, 109, 922-935.	0.5	20
28	Phosphoinositides regulate ion channels. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 844-856.	2.4	264
29	Differential Regulation of Proton-Sensitive Ion Channels by Phospholipids: A Comparative Study between ASICs and TRPV1. PLoS ONE, 2015, 10, e0122014.	2.5	13
30	Five hTRPA1 Agonists Found in Indigenous Korean Mint, Agastache rugosa. PLoS ONE, 2015, 10, e0127060.	2.5	11
31	Selective Activation of hTRPV1 by N-Geranyl Cyclopropylcarboxamide, an Amiloride-Insensitive Salt Taste Enhancer. PLoS ONE, 2014, 9, e89062.	2.5	14
32	Voltage-dependent regulation of CaV2.2 channels by Gq-coupled receptor is facilitated by membrane-localized Î² subunit. Journal of General Physiology, 2014, 144, 297-309.	1.9	31
33	Intracellular Membrane Association of the Aplysia cAMP Phosphodiesterase Long and Short Forms via Different Targeting Mechanisms. Journal of Biological Chemistry, 2014, 289, 25797-25811.	3.4	18
34	Irreversible Binding of Ca2+ Channel Î² Subunit to Î±1B Revealed by Chemically-Inducible Dimerization System. Biophysical Journal, 2014, 106, 544a.	0.5	0
35	Membrane Phosphoinositide Turnover by Voltage Sensing Phosphatases. Biophysical Journal, 2014, 106, 514a.	0.5	0
36	Electrostatic Association of Beta-Subunits to Membrane Reduces the PIP2 Sensitivity of Ca2+ Channels. Biophysical Journal, 2013, 104, 461a.	0.5	0

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37	Acid-sensing ion channels (ASICs): therapeutic targets for neurological diseases and their regulation. BMB Reports, 2013, 46, 295-304.	2.4	85
38	Membrane-localized Î²-subunits alter the PIP ₂ regulation of high-voltage activated Ca ²⁺ channels. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 3161-3166.	7.1	66
39	Cholesterol modulates ion channels via downâ€regulation of phosphatidylinositol 4,5â€bisphosphate. Journal of Neurochemistry, 2010, 112, 1286-1294.	3.9	38
40	SYMPOSIUM REVIEW: Phosphoinositides: lipid regulators of membrane proteins. Journal of Physiology, 2010, 588, 3179-3185.	2.9	190
41	Modulation of High-Voltage Activated Ca2+ Channels by Membrane Phosphatidylinositol 4,5-Bisphosphate. Neuron, 2010, 67, 224-238.	8.1	139
42	Probing Phosphoinositide Kinetics With A Voltage-sensitive Phosphatase. Biophysical Journal, 2009, 96, 95a.	0.5	0
43	Potentiation of PGE2-mediated cAMP production during neuronal differentiation of human neuroblastoma SK-N-BE(2)C cells. Journal of Neurochemistry, 2008, 79, 303-310.	3.9	25
44	PIP₂Is a Necessary Cofactor for Ion Channel Function:<scp>How</scp>and Why?. Annual Review of Biophysics, 2008, 37, 175-195.	10.0	582
45	Electrostatic Interaction of Internal Mg2+ with Membrane PIP2 Seen with KCNQ K+ Channels. Journal of General Physiology, 2007, 130, 241-256.	1.9	79
46	Regulation of KCNQ channels by manipulation of phosphoinositides. Journal of Physiology, 2007, 582, 911-916.	2.9	66
47	Electrostatic Interaction of Internal Mg²⁺with Membrane PIP2 Seen with KCNQ K⁺Channels. Journal of Cell Biology, 2007, 178, i14-i14.	5.2	0
48	Does diacylglycerol regulate KCNQ channels?. Pflugers Archiv European Journal of Physiology, 2006, 453, 293-301.	2.8	17
49	Rapid Chemically Induced Changes of PtdIns(4,5)P2 Gate KCNQ Ion Channels. Science, 2006, 314, 1454-1457.	12.6	457
50	Regulation of ion channels by phosphatidylinositol 4,5-bisphosphate. Current Opinion in Neurobiology, 2005, 15, 370-378.	4.2	408
51	Phospholipase C in Living Cells. Journal of General Physiology, 2005, 126, 243-262.	1.9	291
52	Regulation of KCNQ2/KCNQ3 Current by G Protein Cycling. Journal of General Physiology, 2004, 123, 663-683.	1.9	118
53	Recovery from Muscarinic Modulation of M Current Channels Requires Phosphatidylinositol 4,5-Bisphosphate Synthesis. Neuron, 2002, 35, 507-520.	8.1	444