Andrea Cosimo Saponaro

List of Publications by Year
in descending order

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35 papers	521 citations	759233 12 h-index	713466 21 g-index
38 all docs	38 docs citations	38 times ranked	701 citing authors

#	Article	IF	Citations
1	TRIP8b Regulates HCN1 Channel Trafficking and Gating through Two Distinct C-Terminal Interaction Sites. Journal of Neuroscience, 2011, 31, 4074-4086.	3.6	72
2	Structural basis for the mutual antagonism of cAMP and TRIP8b in regulating HCN channel function. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14577-14582.	7.1	68
3	A light-gated potassium channel for sustained neuronal inhibition. Nature Methods, 2018, 15, 969-976.	19.0	47
4	The HCN domain couples voltage gating and cAMP response in hyperpolarization-activated cyclic nucleotide-gated channels. ELife, 2019, 8, .	6.0	45
5	A synthetic peptide that prevents cAMP regulation in mammalian hyperpolarization-activated cyclic nucleotide-gated (HCN) channels. ELife, 2018, 7, .	6.0	43
6	Gating movements and ion permeation in HCN4 pacemaker channels. Molecular Cell, 2021, 81, 2929-2943.e6.	9.7	41
7	Binding of the auxiliary subunit TRIP8b to HCN channels shifts the mode of action of cAMP. Journal of General Physiology, 2013, 142, 599-612.	1.9	39
8	Fusicoccin Activates KAT1 Channels by Stabilizing their Interaction with 14-3-3- Proteins. Plant Cell, 2017, 29, tpc.00375.2017.	6.6	34
9	Mechanical transduction of cytoplasmic-to-transmembrane-domain movements in a hyperpolarization-activated cyclic nucleotideâ€“gated cation channel. Journal of Biological Chemistry, 2018, 293, 12908-12918.	3.4	25
10	Structure-Function Relation of Phospholamban: Modulation of Channel Activity as a Potential Regulator of SERCA Activity. PLoS ONE, 2013, 8, e52744.	2.5	20
11	A reduced mechanical model for cAMP-modulated gating in HCN channels. Scientific Reports, 2017, 7, 40168.	3.3	19
12	Isothermal Titration Calorimetry: A Biophysical Method to Characterize the Interaction between Label-free Biomolecules in Solution. Bio-protocol, 2018, 8, e2957.	0.4	16
13	cyclic AMP Regulation and Its Command in the Pacemaker Channel HCN4. Frontiers in Physiology, 2020, 11, 771.	2.8	9
14	Structural Basis of Inhibition of the Pioneer Transcription Factor NF-Y by Suramin. Cells, 2020, 9, 2370.	4.1	8
15	Rational design of a mutation to investigate the role of the brain protein TRIP8b in limiting the cAMP response of HCN channels in neurons. Journal of General Physiology, 2020, 152, .	1.9	8
16	Protein Adsorption at the Airâ€“Water Interface by a Charge Sensing Interferometric Technique. Langmuir, 2019, 35, 16087-16100.	3.5	6
17	Understanding Docking Complexes of Macromolecules Using HADDOCK: The Synergy between Experimental Data and Computations. Bio-protocol, 2020, 10, e3793.	0.4	6
18	Structural and functional approaches to studying cAMP regulation of HCN channels. Biochemical Society Transactions, 2021, 49, 2573-2579.	3.4	6

#	Article	IF	Citations
19	A Functional K+ Channel from Tetraselmis Virus 1, a Member of the Mimiviridae. Viruses, 2020, 12, 1107.	3.3	3
20	Developing Synthetic Peptides to Regulate Native HCN Channels. Biophysical Journal, 2019, 116, 302a.	0.5	2
21	Detection of ligand binding to purified HCN channels using fluorescence-based size exclusion chromatography. Methods in Enzymology, 2021, 652, 105-123.	1.0	2
22	Experimental challenges in ion channel research: uncovering basic principles of permeation and gating in potassium channels. Advances in Physics: X, 2022, 7, .	4.1	2
23	TRIP8B Allosterically Regulates the Ability of cAMP to Enhance the HCN2 Channel Opening. Biophysical Journal, 2012, 102, 130a.	0.5	0
24	The Auxiliary Subunit TRIP8B Inhibits the Binding of CAMP to HCN2 Channels Through an Allosteric Mechanism. Biophysical Journal, 2014, 106, 758a.	0.5	0
25	HCN Channels: The Molecular Basis for their cAMP-TRIP8b Regulation. Biophysical Journal, 2015, 108, 366a.	0.5	0
26	Exploring New Pharmacological Perspectives of Fusicoccin, A Stabilizer of 14-3-3 - Target Protein Complex. Biophysical Journal, 2017, 112, 339a.	0.5	0
27	Assigning Function to the D and E Helices of HCN CNBD. Biophysical Journal, 2018, 114, 303a.	0.5	0
28	Chimeric HCN Channels for Studying Camp-Induced Conformational Changes in the C-Linker. Biophysical Journal, 2019, 116, 301a.	0.5	0
29	The Role of HCN Domain in Channel Gating. Biophysical Journal, 2019, 116, 397a.	0.5	0
30	The Role of HCN Channel Helices D and E in the Modulation of Camp Affinity. Biophysical Journal, 2020, 118, 416a.	0.5	0
31	Camp-Induced Conformational Changes in the C-Linker of HCN4. Biophysical Journal, 2020, 118, 419a.	0.5	0
32	Lov-Nano as a New Tool for the Regulation of HCN Channels by Blue Light. Biophysical Journal, 2020, 118, 270a.	0.5	0
33	The Role of D and E Helices in HCN Channels. Biophysical Journal, 2021, 120, 242a-243a.	0.5	0
34	Monitoring Ligand Binding to Purified HCN4 Channel Proteins. Biophysical Journal, 2021, 120, 203a.	0.5	0
35	Gating Movements and Ion Permeation in HCN4 Pacemaker Channels. SSRN Electronic Journal, 0, , .	0.4	0