

Bina Santoro

List of Publications by Year in descending order

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26
papers

4,063
citations

304743

22
h-index

552781

26
g-index

31
all docs

31
docs citations

31
times ranked

3002
citing authors

#	ARTICLE	IF	CITATIONS
1	Cation leak underlies neuronal excitability in an HCN1 developmental and epileptic encephalopathy. <i>Brain</i> , 2021, 144, 2060-2073.	7.6	26
2	Gating movements and ion permeation in HCN4 pacemaker channels. <i>Molecular Cell</i> , 2021, 81, 2929-2943.e6.	9.7	41
3	Frequency-Dependent Synaptic Dynamics Differentially Tune CA1 and CA2 Pyramidal Neuron Responses to Cortical Input. <i>Journal of Neuroscience</i> , 2021, 41, 8103-8110.	3.6	7
4	Hyperpolarization-Activated Cyclic Nucleotide-Gated Channels as Drug Targets for Neurological Disorders. <i>Annual Review of Pharmacology and Toxicology</i> , 2020, 60, 109-131.	9.4	71
5	The HCN domain couples voltage gating and cAMP response in hyperpolarization-activated cyclic nucleotide-gated channels. <i>ELife</i> , 2019, 8, .	6.0	45
6	HCN1 mutation spectrum: from neonatal epileptic encephalopathy to benign generalized epilepsy and beyond. <i>Brain</i> , 2018, 141, 3160-3178.	7.6	96
7	A synthetic peptide that prevents cAMP regulation in mammalian hyperpolarization-activated cyclic nucleotide-gated (HCN) channels. <i>ELife</i> , 2018, 7, .	6.0	43
8	Mechanical transduction of cytoplasmic-to-transmembrane-domain movements in a hyperpolarization-activated cyclic nucleotide-gated cation channel. <i>Journal of Biological Chemistry</i> , 2018, 293, 12908-12918.	3.4	25
9	The Dendrites of CA2 and CA1 Pyramidal Neurons Differentially Regulate Information Flow in the Cortico-Hippocampal Circuit. <i>Journal of Neuroscience</i> , 2017, 37, 3276-3293.	3.6	54
10	Structural basis for the mutual antagonism of cAMP and TRIP8b in regulating HCN channel function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14577-14582.	7.1	68
11	Binding of the auxiliary subunit TRIP8b to HCN channels shifts the mode of action of cAMP. <i>Journal of General Physiology</i> , 2013, 142, 599-612.	1.9	39
12	TRIP8b Splice Forms Act in Concert to Regulate the Localization and Expression of HCN1 Channels in CA1 Pyramidal Neurons. <i>Neuron</i> , 2011, 70, 495-509.	8.1	69
13	TRIP8b Regulates HCN1 Channel Trafficking and Gating through Two Distinct C-Terminal Interaction Sites. <i>Journal of Neuroscience</i> , 2011, 31, 4074-4086.	3.6	72
14	Increased seizure severity and seizure-related death in mice lacking HCN1 channels. <i>Epilepsia</i> , 2010, 51, 1624-1627.	5.1	79
15	Sensitivity of HCN channel deactivation to cAMP is amplified by an S4 mutation combined with activation mode shift. <i>Pflügers Archiv European Journal of Physiology</i> , 2009, 458, 877-889.	2.8	12
16	TRIP8b Splice Variants Form a Family of Auxiliary Subunits that Regulate Gating and Trafficking of HCN Channels in the Brain. <i>Neuron</i> , 2009, 62, 802-813.	8.1	151
17	HCN1 Channels Control Resting and Active Integrative Properties of Stellate Cells from Layer II of the Entorhinal Cortex. <i>Journal of Neuroscience</i> , 2007, 27, 12440-12451.	3.6	175
18	Regulation of HCN Channel Surface Expression by a Novel C-Terminal Protein-Protein Interaction. <i>Journal of Neuroscience</i> , 2004, 24, 10750-10762.	3.6	186

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19	A Behavioral Role for Dendritic Integration. <i>Cell</i> , 2004, 119, 719-732.	28.9	299
20	The multiple personalities of h-channels. <i>Trends in Neurosciences</i> , 2003, 26, 550-554.	8.6	114
21	The Hyperpolarization-Activated HCN1 Channel Is Important for Motor Learning and Neuronal Integration by Cerebellar Purkinje Cells. <i>Cell</i> , 2003, 115, 551-564.	28.9	287
22	Molecular mechanism of cAMP modulation of HCN pacemaker channels. <i>Nature</i> , 2001, 411, 805-810.	27.8	456
23	HCN2 Overexpression in Newborn and Adult Ventricular Myocytes. <i>Circulation Research</i> , 2001, 89, E8-14.	4.5	121
24	Molecular and Functional Heterogeneity of Hyperpolarization-Activated Pacemaker Channels in the Mouse CNS. <i>Journal of Neuroscience</i> , 2000, 20, 5264-5275.	3.6	537
25	The HCN Gene Family: Molecular Basis of the Hyperpolarization-Activated Pacemaker Channels. <i>Annals of the New York Academy of Sciences</i> , 1999, 868, 741-764.	3.8	332
26	Identification of a Gene Encoding a Hyperpolarization-Activated Pacemaker Channel of Brain. <i>Cell</i> , 1998, 93, 717-729.	28.9	656