Vincenzo Barrese

List of Publications by Year
in descending order

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Version: 2024-02-01

38 papers	1,232 citations	361413 20 h-index	377865 34 g-index
38 all docs	38 docs citations	38 times ranked	1727 citing authors

#	Article	IF	Citations
1	Genotypeâ€“phenotype correlations in neonatal epilepsies caused by mutations in the voltage sensor of K _v 7.2 potassium channel subunits. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4386-4391.	7.1	154
2	KCNQ-Encoded Potassium Channels as Therapeutic Targets. Annual Review of Pharmacology and Toxicology, 2018, 58, 625-648.	9.4	93
3	Expression, Localization, and Pharmacological Role of K_v7 Potassium Channels in Skeletal Muscle Proliferation, Differentiation, and Survival after Myotoxic Insults. Journal of Pharmacology and Experimental Therapeutics, 2010, 332, 811-820.	2.5	65
4	Expression and function of Kv7.4 channels in rat cardiac mitochondria: possible targets for cardioprotection. Cardiovascular Research, 2016, 110, 40-50.	3.8	65
5	Contribution of Kv7 Channels to Natriuretic Peptide Mediated Vasodilation in Normal and Hypertensive Rats. Hypertension, 2015, 65, 676-682.	2.7	63
6	G-protein Î²Î³ subunits are positive regulators of Kv7.4 and native vascular Kv7 channel activity. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6497-6502.	7.1	62
7	Epileptic channelopathies caused by neuronal Kv7 (KCNQ) channel dysfunction. Pflugers Archiv European Journal of Physiology, 2020, 472, 881-898.	2.8	62
8	Decreased Subunit Stability as a Novel Mechanism for Potassium Current Impairment by a KCNQ2 C Terminus Mutation Causing Benign Familial Neonatal Convulsions. Journal of Biological Chemistry, 2006, 281, 418-428.	3.4	58
9	New advances in beta-blocker therapy in heart failure. Frontiers in Physiology, 2013, 4, 323.	2.8	56
10	Involvement of KCNQ2 subunits in [3H]dopamine release triggered by depolarization and pre-synaptic muscarinic receptor activation from rat striatal synaptosomes. Journal of Neurochemistry, 2007, 102, 179-193.	3.9	51
11	Kv7 Channel Activation Underpins EPAC-Dependent Relaxations of Rat Arteries. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 2404-2411.	2.4	45
12	Preâ€synaptic BK channels selectively control glutamate versus GABA release from cortical and hippocampal nerve terminals. Journal of Neurochemistry, 2010, 115, 411-422.	3.9	43
13	MicroRNA-153 targeting of KCNQ4 contributes to vascular dysfunction in hypertension. Cardiovascular Research, 2016, 112, 581-589.	3.8	43
14	Specification of skeletal muscle differentiation by repressor element-1 silencing transcription factor (REST)-regulated K_v7.4 potassium channels. Molecular Biology of the Cell, 2013, 24, 274-284.	2.1	42
15	Functional analysis of novel KCNQ2 and KCNQ3 gene variants found in a large pedigree with benign familial neonatal convulsions (BFNC). Neurogenetics, 2005, 6, 185-193.	1.4	26
16	Activation of preâ€synaptic Mâ€type K⁺ channels inhibits [³H]<scp>d</scp>â€aspartate release by reducing Ca²⁺ entry through P/Qâ€type voltageâ€gated Ca²⁺channels. Journal of Neurochemistry, 2009, 109, 168-181.	3.9	25
17	Uncovered Contribution of Kv7 Channels to Pulmonary Vascular Tone in Pulmonary Arterial Hypertension. Hypertension, 2020, 76, 1134-1146.	2.7	25
18	The Voltage-Sensing Domain of Kv7.2 Channels as a Molecular Target for Epilepsy-Causing Mutations and Anticonvulsants. Frontiers in Pharmacology, 2011, 2, 2.	3.5	24

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19	Neuronal potassium channel openers in the management of epilepsy: role and potential of retigabine. Clinical Pharmacology: Advances and Applications, 2010, 2, 225.	1.2	23
20	Angiotensin II Promotes K V 7.4 Channels Degradation Through Reduced Interaction With HSP90 (Heat) Tj ETQq0 0 0 rgBT /Overlock 10	2.7	22
21	Investigating the Role of G Protein Î²Î³ in Kv7-Dependent Relaxations of the Rat Vasculature. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 2091-2102.	2.4	21
22	Large Conductance Calcium-Activated Potassium Channels: Their Expression and Modulation of Glutamate Release from Nerve Terminals Isolated from Rat Trigeminal Caudal Nucleus and Cerebral Cortex. Neurochemical Research, 2014, 39, 901-910.	3.3	19
23	Critical role of large-conductance calcium- and voltage-activated potassium channels in leptin-induced neuroprotection of N-methyl-d-aspartate-exposed cortical neurons. Pharmacological Research, 2014, 87, 80-86.	7.1	19
24	Combined in vitro and in silico approaches to the assessment of stimulant properties of novel psychoactive substances â€“ The case of the benzofuran 5-MAPB. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2017, 75, 1-9.	4.8	17
25	Dynein regulates Kv7.4 channel trafficking from the cell membrane. Journal of General Physiology, 2021, 153, .	1.9	14
26	Gain of function due to increased opening probability by two KCNQ5 pore variants causing developmental and epileptic encephalopathy. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2116887119.	7.1	14
27	Synergistic interplay of GÎ²Î³ and phosphatidylinositol 4,5-bisphosphate dictates Kv7.4 channel activity. Pflugers Archiv European Journal of Physiology, 2017, 469, 213-223.	2.8	13
28	Protective Role of Kv7 Channels in Oxygen and Glucose Deprivation-Induced Damage in Rat Caudate Brain Slices. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1593-1600.	4.3	11
29	SMIT (Sodium-Myo-Inositol Transporter) 1 Regulates Arterial Contractility Through the Modulation of Vascular Kv7 Channels. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 2468-2480.	2.4	11
30	Editorial: Kv7 Channels: Structure, Physiology, and Pharmacology. Frontiers in Physiology, 2021, 12, 679317.	2.8	8
31	Kv7.4 channels regulate potassium permeability in neuronal mitochondria. Biochemical Pharmacology, 2022, 197, 114931.	4.4	8
32	A Novel Kv7.3 Variant in the Voltage-Sensing S4 Segment in a Family With Benign Neonatal Epilepsy: Functional Characterization and in vitro Rescue by Î²-Hydroxybutyrate. Frontiers in Physiology, 2020, 11, 1040.	2.8	7
33	Proliferative Role of Kv11 Channels in Murine Arteries. Frontiers in Physiology, 2017, 8, 500.	2.8	6
34	In Vitro Neurochemical Assessment of Methylphenidate and Its â€œLegal Highâ€•Analogs 3,4-CTMP and Ethylphenidate in Rat Nucleus Accumbens and Bed Nucleus of the Stria Terminalis. Frontiers in Psychiatry, 2018, 9, 149.	2.6	6
35	MARCKS mediates vascular contractility through regulating interactions between voltage-gated Ca2+ channels and PIP2. Vascular Pharmacology, 2020, 132, 106776.	2.1	6
36	Tailoring therapy for heart failure: the pharmacogenomics of adrenergic receptor signaling. Pharmacogenomics and Personalized Medicine, 2014, 7, 267.	0.7	5

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37	The Adrenergic System of the Myocardium. , 2015, , 13-24.		0
38	Kv7.2 and Kv7.3 potassium channel subunits as new central regulators of blood pressure. Cardiovascular Research, 2022, 118, 345-346.	3.8	0