Mauro Pessia

List of Publications by Year
in descending order

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63 papers	2,481 citations	185998 28 h-index	205818 48 g-index
67 all docs	67 docs citations	67 times ranked	3338 citing authors

#	Article	IF	Citations
1	Episodic ataxia results from voltage-dependent potassium channels with altered functions. Neuron, 1995, 15, 1449-1454.	3.8	221
2	Actions of 5-hydroxytryptamine on ventral tegmental area neurons of the rat in vitro. Brain Research, 1994, 654, 324-330.	1.1	129
3	De novopoint mutations in patients diagnosed with ataxic cerebral palsy. Brain, 2015, 138, 1817-1832.	3.7	129
4	pH Dependence of the Inwardly Rectifying Potassium Channel, Kir5.1, and Localization in Renal Tubular Epithelia. Journal of Biological Chemistry, 2000, 275, 16404-16407.	1.6	114
5	Differential pH sensitivity of Kir4.1 and Kir4.2 potassium channels and their modulation by heteropolymerisation with Kir5.1. Journal of Physiology, 2001, 532, 359-367.	1.3	112
6	Autism with Seizures and Intellectual Disability: Possible Causative Role of Gain-of-function of the Inwardly-Rectifying K+ Channel Kir4.1. Neurobiology of Disease, 2011, 43, 239-247.	2.1	108
7	Thymosin Î±1 represents a potential potent single-molecule-based therapy for cystic fibrosis. Nature Medicine, 2017, 23, 590-600.	15.2	91
8	K+ channelepsy: progress in the neurobiology of potassium channels and epilepsy. Frontiers in Cellular Neuroscience, 2013, 7, 134.	1.8	84
9	Mutations in the KCNA1 gene associated with episodic ataxia typeâ€1 syndrome impair heteromeric voltageâ€gated K ⁺ channel function. FASEB Journal, 1999, 13, 1335-1345.	0.2	75
10	Genetically induced dysfunctions of Kir2.1 channels: implications for short QT3 syndrome and autismâ€“epilepsy phenotype. Human Molecular Genetics, 2014, 23, 4875-4886.	1.4	65
11	Dexamethasone in Glioblastoma Multiforme Therapy: Mechanisms and Controversies. Frontiers in Molecular Neuroscience, 2019, 12, 65.	1.4	64
12	Update on the implication of potassium channels in autism: K+ channelautism spectrum disorder. Frontiers in Cellular Neuroscience, 2015, 9, 34.	1.8	63
13	Gain-of-function defects of astrocytic Kir4.1 channels in children with autism spectrum disorders and epilepsy. Scientific Reports, 2016, 6, 34325.	1.6	56
14	Kv1.1 Channelopathies: Pathophysiological Mechanisms and Therapeutic Approaches. International Journal of Molecular Sciences, 2020, 21, 2935.	1.8	55
15	ClC-1 chloride channels: state-of-the-art research and future challenges. Frontiers in Cellular Neuroscience, 2015, 09, 156.	1.8	53
16	Episodic ataxia type 1 mutations in theKCNA1gene impair the fast inactivation properties of the human potassium channels Kv1.4-1.1/KvÎ²1.1 and Kv1.4-1.1/KvÎ²1.2. European Journal of Neuroscience, 2006, 24, 3073-3083.	1.2	50
17	Inhibitory Interactions between Two Inward Rectifier K+ Channel Subunits Mediated by the Transmembrane Domains. Journal of Biological Chemistry, 1996, 271, 5866-5870.	1.6	48
18	ERG voltageâ€gated K⁺ channels regulate excitability and discharge dynamics of the medial vestibular nucleus neurones. Journal of Physiology, 2008, 586, 4877-4890.	1.3	45

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19	Genetic Inactivation of Kcnj16 Identifies Kir5.1 as an Important Determinant of Neuronal PCO2/pH Sensitivity. Journal of Biological Chemistry, 2011, 286, 192-198.	1.6	43
20	Identification of a Heteromeric Interaction That Influences the Rectification, Gating, and pH Sensitivity of Kir4.1/Kir5.1 Potassium Channels. Journal of Biological Chemistry, 2003, 278, 43533-43540.	1.6	42
21	A large cohort of myotonia congenita probands: novel mutations and a high-frequency mutation region in exons 4 and 5 of the CLCN1 gene. Journal of Human Genetics, 2013, 58, 581-587.	1.1	42
22	Novel phenotype associated with a mutation in the KCNA1(Kv1.1) gene. Frontiers in Physiology, 2014, 5, 525.	1.3	42
23	Localization and age-dependent expression of the inward rectifier K+ channel subunit Kir 5.1 in a mammalian reproductive system. FEBS Letters, 1999, 449, 146-152.	1.3	41
24	Overexpression of Largeâ€Conductance Calciumâ€Activated Potassium Channels in Human Glioblastoma Stemâ€Like Cells and Their Role in Cell Migration. Journal of Cellular Physiology, 2017, 232, 2478-2488.	2.0	41
25	Structure, Gating and Basic Functions of the Ca2+-activated K Channel of Intermediate Conductance. Current Neuropharmacology, 2018, 16, 608-617.	1.4	40
26	Role(s) of the 5â€<scp>HT</scp>2C Receptor in the Development of Maximal Dentate Activation in the Hippocampus of Anesthetized Rats. CNS Neuroscience and Therapeutics, 2014, 20, 651-661.	1.9	37
27	Kv1.1 knock-in ataxic mice exhibit spontaneous myokymic activity exacerbated by fatigue, ischemia and low temperature. Neurobiology of Disease, 2012, 47, 310-321.	2.1	32
28	Megalencephalic leukoencephalopathy with subcortical cysts protein-1 regulates epidermal growth factor receptor signaling in astrocytes. Human Molecular Genetics, 2016, 25, 1543-1558.	1.4	32
29	Episodic ataxia type 1 mutation F184C alters Zn2+-induced modulation of the human K+ channel Kv1.4-Kv1.1/Kvβ1.1. American Journal of Physiology - Cell Physiology, 2007, 292, C778-C787.	2.1	29
30	Heteromeric channel formation and Ca2+-free media reduce the toxic effect of theweaverKir3.2 allele. FEBS Letters, 1996, 390, 253-257.	1.3	28
31	Episodic ataxia type 1 mutations affect fast inactivation of K⁺channels by a reduction in either subunit surface expression or affinity for inactivation domain. American Journal of Physiology - Cell Physiology, 2011, 300, C1314-C1322.	2.1	28
32	Chronic treatment with DAU 6215, a new 5-HT3 receptor antagonist, causes a selective decrease in the number of spontaneously active dopaminergic neurons in the rat ventral tegmental area. European Journal of Pharmacology, 1992, 214, 13-19.	1.7	26
33	Role of receptor protein tyrosine phosphatase Îº (RPTPÎº) and tyrosine phosphorylation in the serotonergic inhibition of voltage-dependent potassium channels. Pflugers Archiv European Journal of Physiology, 2000, 441, 257-262.	1.3	26
34	Hypoxia Modulates the Swelling-Activated Cl Current in Human Glioblastoma Cells: Role in Volume Regulation and Cell Survival. Journal of Cellular Physiology, 2017, 232, 91-100.	2.0	26
35	Functional characterization of an episodic ataxia type-1 mutation occurring in the S1 segment of hKv1.1 channels. Pflugers Archiv European Journal of Physiology, 2003, 446, 373-379.	1.3	25
36	KCNA4deficiency leads to a syndrome of abnormal striatum, congenital cataract and intellectual disability. Journal of Medical Genetics, 2016, 53, 786-792.	1.5	24

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37	Inward Rectifier Potassium Channels. Cloning, Expression and Structure-Function Studies.. International Heart Journal, 1996, 37, 651-660.	0.6	23
38	A novel KCNA1 mutation in a patient with paroxysmal ataxia, myokymia, painful contractures and metabolic dysfunctions. Molecular and Cellular Neurosciences, 2017, 83, 6-12.	1.0	23
39	Contribution of the central hydrophobic residue in the PXP motif of voltage-dependent K⁺channels to S6 flexibility and gating properties. Channels, 2009, 3, 39-45.	1.5	22
40	Trace amines depress D₂â€autoreceptorâ€mediated responses on midbrain dopaminergic cells. British Journal of Pharmacology, 2010, 160, 1509-1520.	2.7	22
41	High dose of 8-OH-DPAT decreases maximal dentate gyrus activation and facilitates granular cell plasticity in vivo. Experimental Brain Research, 2013, 230, 441-451.	0.7	21
42	Reconciling the discrepancies on the involvement of large-conductance Ca2+-activated K channels in glioblastoma cell migration. Frontiers in Cellular Neuroscience, 2015, 9, 152.	1.8	21
43	Ion Channels Involvement in Neurodevelopmental Disorders. Neuroscience, 2020, 440, 337-359.	1.1	21
44	An episodic ataxia type-1 mutation in the S1 segment sensitises the hKv1.1 potassium channel to extracellular Zn2+. FEBS Letters, 2004, 576, 237-244.	1.3	17
45	Lethal digenic mutations in the K⁺ channels Kir4.1 (KCNJ10) and SLACK (KCNT1) associated with severe-disabling seizures and neurodevelopmental delay. Journal of Neurophysiology, 2017, 118, 2402-2411.	0.9	17
46	The role of ion channels in the hypoxia-induced aggressiveness of glioblastoma. Frontiers in Cellular Neuroscience, 2014, 8, 467.	1.8	16
47	A Calsequestrin-1 Mutation Associated with a Skeletal Muscle Disease Alters Sarcoplasmic Ca2+ Release. PLoS ONE, 2016, 11, e0155516.	1.1	15
48	A channelopathy mutation in the voltage-sensor discloses contributions of a conserved phenylalanine to gating properties of Kv1.1 channels and ataxia. Scientific Reports, 2017, 7, 4583.	1.6	15
49	Association of A Novel Splice Site Mutation in P/Q-Type Calcium Channels with Childhood Epilepsy and Late-Onset Slowly Progressive Non-Episodic Cerebellar Ataxia. International Journal of Molecular Sciences, 2020, 21, 3810.	1.8	14
50	5-HT2 receptors-mediated modulation of voltage-gated K+ channels and neurophysiopathological correlates. Experimental Brain Research, 2013, 230, 453-462.	0.7	12
51	ACASQ1founder mutation in three Italian families with protein aggregate myopathy and hyperCKaemia. Journal of Medical Genetics, 2015, 52, 617-626.	1.5	10
52	Altered functional properties of a missense variant in the TRESK K+ channel (KCNK18) associated with migraine and intellectual disability. Pflugers Archiv European Journal of Physiology, 2020, 472, 923-930.	1.3	9
53	Identification of a New de Novo Mutation Underlying Regressive Episodic Ataxia Type I. Frontiers in Neurology, 2018, 9, 587.	1.1	8
54	Kcnj16 (Kir5.1) Gene Ablation Causes Subfertility and Increases the Prevalence of Morphologically Abnormal Spermatozoa. International Journal of Molecular Sciences, 2021, 22, 5972.	1.8	5

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55	A method to identify tissue cell subpopulations with distinct multi-molecular profiles from data on co-localization of two markers at a time: the case of sensory ganglia. Journal of Neuroscience Methods, 2014, 224, 88-95.	1.3	4
56	Commentary: A channelopathy mutation in the voltage-sensor discloses contributions of a conserved phenylalanine to gating properties of Kv1.1 channels and ataxia. Frontiers in Cellular Neuroscience, 2018, 12, 174.	1.8	4
57	Expression and function of a CP339,818-sensitive K⁺current in a subpopulation of putative nociceptive neurons from adult mouse trigeminal ganglia. Journal of Neurophysiology, 2015, 113, 2653-2665.	0.9	3
58	Electromechanical coupling of the Kv1.1 voltage-gated K+ channel is fine-tuned by the simplest amino acid residue in the S4-S5 linker. Pflugers Archiv European Journal of Physiology, 2020, 472, 899-909.	1.3	3
59	KCNK18 Biallelic Variants Associated with Intellectual Disability and Neurodevelopmental Disorders Alter TRESK Channel Activity. International Journal of Molecular Sciences, 2021, 22, 6064.	1.8	3
60	Ion channels and electrical activity. , 2004, , 103-138.		3
61	Reply to â€˜F508del-CFTR is not corrected by thymosin Î±1â€™. Nature Medicine, 2018, 24, 891-893.	15.2	2
62	In Vivo Microdialysis to Study Striatal Dopaminergic Neurodegeneration. Neuromethods, 2013, , 23-42.	0.2	1
63	Animal Models of Episodic Ataxia Type 1 (EA1). , 2015, , 797-807.		0