

# Mauro Pessia

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

1,993

citations

26

h-index

43

g-index

67

ext. papers

2,269

ext. citations

6.5

avg, IF

4.33

L-index

#	Paper	IF	Citations
62	(Kir5.1) Gene Ablation Causes Subfertility and Increases the Prevalence of Morphologically Abnormal Spermatozoa. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	2
61	Biallelic Variants Associated with Intellectual Disability and Neurodevelopmental Disorders Alter TRESK Channel Activity. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1
60	Altered functional properties of a missense variant in the TRESK K channel (KCNK18) associated with migraine and intellectual disability. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2020</b> , 472, 923-930	4.6	4
59	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. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	9
58	Ion Channels Involvement in Neurodevelopmental Disorders. <i>Neuroscience</i> , <b>2020</b> , 440, 337-359	3.9	11
57	Electromechanical coupling of the Kv1.1 voltage-gated K channel is fine-tuned by the simplest amino acid residue in the S4-S5 linker. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2020</b> , 472, 899-909	4.6	2
56	Kv1.1 Channelopathies: Pathophysiological Mechanisms and Therapeutic Approaches. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	24
55	Dexamethasone in Glioblastoma Multiforme Therapy: Mechanisms and Controversies. <i>Frontiers in Molecular Neuroscience</i> , <b>2019</b> , 12, 65	6.1	34
54	Commentary: A channelopathy mutation in the voltage-sensor discloses contributions of a conserved phenylalanine to gating properties of Kv1.1 channels and ataxia. <i>Frontiers in Cellular Neuroscience</i> , <b>2018</b> , 12, 174	6.1	3
53	Identification of a New Mutation Underlying Regressive Episodic Ataxia Type I. <i>Frontiers in Neurology</i> , <b>2018</b> , 9, 587	4.1	6
52	Structure, Gating and Basic Functions of the Ca <sup>2+</sup> -activated K Channel of Intermediate Conductance. <i>Current Neuropharmacology</i> , <b>2018</b> , 16, 608-617	7.6	22
51	Reply to <b>T</b> 508del-CFTR is not corrected by thymosin $\beta$ 4. <i>Nature Medicine</i> , <b>2018</b> , 24, 891-893	50.5	2
50	Hypoxia Modulates the Swelling-Activated Cl Current in Human Glioblastoma Cells: Role in Volume Regulation and Cell Survival. <i>Journal of Cellular Physiology</i> , <b>2017</b> , 232, 91-100	7	18
49	Thymosin $\beta$ 4 represents a potential potent single-molecule-based therapy for cystic fibrosis. <i>Nature Medicine</i> , <b>2017</b> , 23, 590-600	50.5	75
48	Lethal digenic mutations in the K channels Kir4.1 ( $\delta$ ) and SLACK ( $\delta$ ) associated with severe-disabling seizures and neurodevelopmental delay. <i>Journal of Neurophysiology</i> , <b>2017</b> , 118, 2402-2411	3.2	12
47	A channelopathy mutation in the voltage-sensor discloses contributions of a conserved phenylalanine to gating properties of Kv1.1 channels and ataxia. <i>Scientific Reports</i> , <b>2017</b> , 7, 4583	4.9	7
46	A novel KCNA1 mutation in a patient with paroxysmal ataxia, myokymia, painful contractures and metabolic dysfunctions. <i>Molecular and Cellular Neurosciences</i> , <b>2017</b> , 83, 6-12	4.8	14

45	Overexpression of Large-Conductance Calcium-Activated Potassium Channels in Human Glioblastoma Stem-Like Cells and Their Role in Cell Migration. <i>Journal of Cellular Physiology</i> , <b>2017</b> , 232, 2478-2488	7	25
44	Gain-of-function defects of astrocytic Kir4.1 channels in children with autism spectrum disorders and epilepsy. <i>Scientific Reports</i> , <b>2016</b> , 6, 34325	4.9	43
43	Megalencephalic leukoencephalopathy with subcortical cysts protein-1 regulates epidermal growth factor receptor signaling in astrocytes. <i>Human Molecular Genetics</i> , <b>2016</b> , 25, 1543-58	5.6	23
42	A Calsequestrin-1 Mutation Associated with a Skeletal Muscle Disease Alters Sarcoplasmic Ca <sup>2+</sup> Release. <i>PLoS ONE</i> , <b>2016</b> , 11, e0155516	3.7	12
41	deficiency leads to a syndrome of abnormal striatum, congenital cataract and intellectual disability. <i>Journal of Medical Genetics</i> , <b>2016</b> , 53, 786-792	5.8	14
40	A CASQ1 founder mutation in three Italian families with protein aggregate myopathy and hyperCKaemia. <i>Journal of Medical Genetics</i> , <b>2015</b> , 52, 617-26	5.8	9
39	De novo point mutations in patients diagnosed with ataxic cerebral palsy. <i>Brain</i> , <b>2015</b> , 138, 1817-32	11.2	101
38	Update on the implication of potassium channels in autism: K(+) channelautism spectrum disorder. <i>Frontiers in Cellular Neuroscience</i> , <b>2015</b> , 9, 34	6.1	49
37	Animal Models of Episodic Ataxia Type 1 (EA1) <b>2015</b> , 797-807		
36	Reconciling the discrepancies on the involvement of large-conductance Ca(2+)-activated K channels in glioblastoma cell migration. <i>Frontiers in Cellular Neuroscience</i> , <b>2015</b> , 9, 152	6.1	13
35	CLC-1 chloride channels: state-of-the-art research and future challenges. <i>Frontiers in Cellular Neuroscience</i> , <b>2015</b> , 9, 156	6.1	38
34	Expression and function of a CP339,818-sensitive K <sup>+</sup> current in a subpopulation of putative nociceptive neurons from adult mouse trigeminal ganglia. <i>Journal of Neurophysiology</i> , <b>2015</b> , 113, 2653-65	3.2	3
33	Novel phenotype associated with a mutation in the KCNA1(Kv1.1) gene. <i>Frontiers in Physiology</i> , <b>2014</b> , 5, 525	4.6	30
32	Genetically induced dysfunctions of Kir2.1 channels: implications for short QT3 syndrome and autism-epilepsy phenotype. <i>Human Molecular Genetics</i> , <b>2014</b> , 23, 4875-86	5.6	52
31	The role of ion channels in the hypoxia-induced aggressiveness of glioblastoma. <i>Frontiers in Cellular Neuroscience</i> , <b>2014</b> , 8, 467	6.1	10
30	Role(s) of the 5-HT <sub>2C</sub> receptor in the development of maximal dentate activation in the hippocampus of anesthetized rats. <i>CNS Neuroscience and Therapeutics</i> , <b>2014</b> , 20, 651-61	6.8	33
29	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. <i>Journal of Neuroscience Methods</i> , <b>2014</b> , 224, 88-95	3	3
28	High dose of 8-OH-DPAT decreases maximal dentate gyrus activation and facilitates granular cell plasticity in vivo. <i>Experimental Brain Research</i> , <b>2013</b> , 230, 441-51	2.3	21

27	5-HT <sub>2</sub> receptors-mediated modulation of voltage-gated K <sup>+</sup> channels and neurophysiopathological correlates. <i>Experimental Brain Research</i> , <b>2013</b> , 230, 453-62	2.3	10
26	A large cohort of myotonia congenita probands: novel mutations and a high-frequency mutation region in exons 4 and 5 of the CLCN1 gene. <i>Journal of Human Genetics</i> , <b>2013</b> , 58, 581-7	4.3	32
25	K(+) channelepsy: progress in the neurobiology of potassium channels and epilepsy. <i>Frontiers in Cellular Neuroscience</i> , <b>2013</b> , 7, 134	6.1	63
24	In Vivo Microdialysis to Study Striatal Dopaminergic Neurodegeneration. <i>NeuroMethods</i> , <b>2013</b> , 23-42	0.4	0
23	Kv1.1 knock-in ataxic mice exhibit spontaneous myokymic activity exacerbated by fatigue, ischemia and low temperature. <i>Neurobiology of Disease</i> , <b>2012</b> , 47, 310-21	7.5	27
22	Autism with seizures and intellectual disability: possible causative role of gain-of-function of the inwardly-rectifying K <sup>+</sup> channel Kir4.1. <i>Neurobiology of Disease</i> , <b>2011</b> , 43, 239-47	7.5	90
21	Genetic inactivation of Kcnj16 identifies Kir5.1 as an important determinant of neuronal PCO <sub>2</sub> /pH sensitivity. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 192-8	5.4	37
20	Episodic ataxia type 1 mutations affect fast inactivation of K <sup>+</sup> channels by a reduction in either subunit surface expression or affinity for inactivation domain. <i>American Journal of Physiology - Cell Physiology</i> , <b>2011</b> , 300, C1314-22	5.4	25
19	Trace amines depress D(2)-autoreceptor-mediated responses on midbrain dopaminergic cells. <i>British Journal of Pharmacology</i> , <b>2010</b> , 160, 1509-20	8.6	20
18	Contribution of the central hydrophobic residue in the PXP motif of voltage-dependent K <sup>+</sup> channels to S6 flexibility and gating properties. <i>Channels</i> , <b>2009</b> , 3, 39-45	3	17
17	ERG voltage-gated K <sup>+</sup> channels regulate excitability and discharge dynamics of the medial vestibular nucleus neurones. <i>Journal of Physiology</i> , <b>2008</b> , 586, 4877-90	3.9	37
16	Episodic ataxia type 1 mutation F184C alters Zn <sup>2+</sup> -induced modulation of the human K <sup>+</sup> channel Kv1.4-Kv1.1/Kvbeta1.1. <i>American Journal of Physiology - Cell Physiology</i> , <b>2007</b> , 292, C778-87	5.4	26
15	Episodic ataxia type 1 mutations in the KCNA1 gene impair the fast inactivation properties of the human potassium channels Kv1.4-1.1/Kvbeta1.1 and Kv1.4-1.1/Kvbeta1.2. <i>European Journal of Neuroscience</i> , <b>2006</b> , 24, 3073-83	3.5	45
14	An episodic ataxia type-1 mutation in the S1 segment sensitises the hKv1.1 potassium channel to extracellular Zn <sup>2+</sup> . <i>FEBS Letters</i> , <b>2004</b> , 576, 237-44	3.8	16
13	Identification of a heteromeric interaction that influences the rectification, gating, and pH sensitivity of Kir4.1/Kir5.1 potassium channels. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 43533-40	5.4	36
12	Functional characterization of an episodic ataxia type-1 mutation occurring in the S1 segment of hKv1.1 channels. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2003</b> , 446, 373-9	4.6	23
11	Differential pH sensitivity of Kir4.1 and Kir4.2 potassium channels and their modulation by heteropolymerisation with Kir5.1. <i>Journal of Physiology</i> , <b>2001</b> , 532, 359-67	3.9	102
10	Role of receptor protein tyrosine phosphatase alpha (RPTPalpha) and tyrosine phosphorylation in the serotonergic inhibition of voltage-dependent potassium channels. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2000</b> , 441, 257-62	4.6	24

9	pH dependence of the inwardly rectifying potassium channel, Kir5.1, and localization in renal tubular epithelia. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 16404-7	5.4	103
8	Mutations in the KCNA1 gene associated with episodic ataxia type-1 syndrome impair heteromeric voltage-gated K(+) channel function. <i>FASEB Journal</i> , <b>1999</b> , 13, 1335-45	0.9	64
7	Localization and age-dependent expression of the inward rectifier K+ channel subunit Kir 5.1 in a mammalian reproductive system. <i>FEBS Letters</i> , <b>1999</b> , 449, 146-52	3.8	37
6	Heteromeric channel formation and Ca(2+)-free media reduce the toxic effect of the weaver Kir 3.2 allele. <i>FEBS Letters</i> , <b>1996</b> , 390, 253-7	3.8	26
5	Inward rectifier potassium channels. Cloning, expression and structure-function studies. <i>International Heart Journal</i> , <b>1996</b> , 37, 651-60		20
4	Inhibitory interactions between two inward rectifier K+ channel subunits mediated by the transmembrane domains. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 5866-70	5.4	44
3	Episodic ataxia results from voltage-dependent potassium channels with altered functions. <i>Neuron</i> , <b>1995</b> , 15, 1449-54	13.9	196
2	Actions of 5-hydroxytryptamine on ventral tegmental area neurons of the rat in vitro. <i>Brain Research</i> , <b>1994</b> , 654, 324-30	3.7	123
1	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. <i>European Journal of Pharmacology</i> , <b>1992</b> , 214, 13-9	5.3	23