# Mauro Pessia

## List of Publications by Citations



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|---|---|---|---|
| 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 | Episodic ataxia results from voltage-dependent potassium channels with altered functions. *Neuron*, **1995**, 15, 1449-54 | 13.9 | 196 |
| 61 | Actions of 5-hydroxytryptamine on ventral tegmental area neurons of the rat in vitro. *Brain Research*, **1994**, 654, 324-30 | 3.7 | 123 |
| 60 | pH dependence of the inwardly rectifying potassium channel, Kir5.1, and localization in renal tubular epithelia. *Journal of Biological Chemistry*, **2000**, 275, 16404-7 | 5.4 | 103 |
| 59 | Differential pH sensitivity of Kir4.1 and Kir4.2 potassium channels and their modulation by heteropolymerisation with Kir5.1. *Journal of Physiology*, **2001**, 532, 359-67 | 3.9 | 102 |
| 58 | De novo point mutations in patients diagnosed with ataxic cerebral palsy. *Brain*, **2015**, 138, 1817-32 | 11.2 | 101 |
| 57 | 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, 239-47 | 7.5 | 90 |
| 56 | Thymosin  represents a potential potent single-molecule-based therapy for cystic fibrosis. *Nature Medicine*, **2017**, 23, 590-600 | 50.5 | 75 |
| 55 | Mutations in the KCNA1 gene associated with episodic ataxia type-1 syndrome impair heteromeric voltage-gated K(+) channel function. *FASEB Journal*, **1999**, 13, 1335-45 | 0.9 | 64 |
| 54 | K(+) channelepsy: progress in the neurobiology of potassium channels and epilepsy. *Frontiers in Cellular Neuroscience*, **2013**, 7, 134 | 6.1 | 63 |
| 53 | Genetically induced dysfunctions of Kir2.1 channels: implications for short QT3 syndrome and autism-epilepsy phenotype. *Human Molecular Genetics*, **2014**, 23, 4875-86 | 5.6 | 52 |
| 52 | Update on the implication of potassium channels in autism: K(+) channelautism spectrum disorder. *Frontiers in Cellular Neuroscience*, **2015**, 9, 34 | 6.1 | 49 |
| 51 | 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. *European Journal of Neuroscience*, **2006**, 24, 3073-83 | 3.5 | 45 |
| 50 | Inhibitory interactions between two inward rectifier K+ channel subunits mediated by the transmembrane domains. *Journal of Biological Chemistry*, **1996**, 271, 5866-70 | 5.4 | 44 |
| 49 | Gain-of-function defects of astrocytic Kir4.1 channels in children with autism spectrum disorders and epilepsy. *Scientific Reports*, **2016**, 6, 34325 | 4.9 | 43 |
| 48 | ClC-1 chloride channels: state-of-the-art research and future challenges. *Frontiers in Cellular Neuroscience*, **2015**, 9, 156 | 6.1 | 38 |
| 47 | Genetic inactivation of Kcnj16 identifies Kir5.1 as an important determinant of neuronal PCO2/pH sensitivity. *Journal of Biological Chemistry*, **2011**, 286, 192-8 | 5.4 | 37 |
| 46 | ERG voltage-gated K+ channels regulate excitability and discharge dynamics of the medial vestibular nucleus neurones. *Journal of Physiology*, **2008**, 586, 4877-90 | 3.9 | 37 |

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|---|---|---|---|
| 45 | Localization and age-dependent expression of the inward rectifier K+ channel subunit Kir 5.1 in a mammalian reproductive system. *FEBS Letters*, **1999**, 449, 146-52 | 3.8 | 37 |
| 44 | 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, 43533-40 | 5.4 | 36 |
| 43 | Dexamethasone in Glioblastoma Multiforme Therapy: Mechanisms and Controversies. *Frontiers in Molecular Neuroscience*, **2019**, 12, 65 | 6.1 | 34 |
| 42 | Role(s) of the 5-HT2C receptor in the development of maximal dentate activation in the hippocampus of anesthetized rats. *CNS Neuroscience and Therapeutics*, **2014**, 20, 651-61 | 6.8 | 33 |
| 41 | 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, 581-7 | 4.3 | 32 |
| 40 | Novel phenotype associated with a mutation in the KCNA1(Kv1.1) gene. *Frontiers in Physiology*, **2014**, 5, 525 | 4.6 | 30 |
| 39 | Kv1.1 knock-in ataxic mice exhibit spontaneous myokymic activity exacerbated by fatigue, ischemia and low temperature. *Neurobiology of Disease*, **2012**, 47, 310-21 | 7.5 | 27 |
| 38 | Episodic ataxia type 1 mutation F184C alters Zn2+-induced modulation of the human K+ channel Kv1.4-Kv1.1/Kvbeta1.1. *American Journal of Physiology - Cell Physiology*, **2007**, 292, C778-87 | 5.4 | 26 |
| 37 | Heteromeric channel formation and Ca(2+)-free media reduce the toxic effect of the weaver Kir 3.2 allele. *FEBS Letters*, **1996**, 390, 253-7 | 3.8 | 26 |
| 36 | Overexpression of Large-Conductance Calcium-Activated Potassium Channels in Human Glioblastoma Stem-Like Cells and Their Role in Cell Migration. *Journal of Cellular Physiology*, **2017**, 232, 2478-2488 | 7 | 25 |
| 35 | 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, C1314-22 | 5.4 | 25 |
| 34 | Kv1.1 Channelopathies: Pathophysiological Mechanisms and Therapeutic Approaches. *International Journal of Molecular Sciences*, **2020**, 21, | 6.3 | 24 |
| 33 | Role of receptor protein tyrosine phosphatase alpha (RPTPalpha) and tyrosine phosphorylation in the serotonergic inhibition of voltage-dependent potassium channels. *Pflugers Archiv European Journal of Physiology*, **2000**, 441, 257-62 | 4.6 | 24 |
| 32 | Megalencephalic leukoencephalopathy with subcortical cysts protein-1 regulates epidermal growth factor receptor signaling in astrocytes. *Human Molecular Genetics*, **2016**, 25, 1543-58 | 5.6 | 23 |
| 31 | 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, 373-9 | 4.6 | 23 |
| 30 | 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, 13-9 | 5.3 | 23 |
| 29 | Structure, Gating and Basic Functions of the Ca2+-activated K Channel of Intermediate Conductance. *Current Neuropharmacology*, **2018**, 16, 608-617 | 7.6 | 22 |
| 28 | High dose of 8-OH-DPAT decreases maximal dentate gyrus activation and facilitates granular cell plasticity in vivo. *Experimental Brain Research*, **2013**, 230, 441-51 | 2.3 | 21 |

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| 27 | Trace amines depress D(2)-autoreceptor-mediated responses on midbrain dopaminergic cells. *British Journal of Pharmacology*, **2010**, 160, 1509-20 | 8.6 | 20 |
| 26 | Inward rectifier potassium channels. Cloning, expression and structure-function studies. *International Heart Journal*, **1996**, 37, 651-60 | | 20 |
| 25 | 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 | 7 | 18 |
| 24 | 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 | 3 | 17 |
| 23 | An episodic ataxia type-1 mutation in the S1 segment sensitises the hKv1.1 potassium channel to extracellular Zn2+. *FEBS Letters*, **2004**, 576, 237-44 | 3.8 | 16 |
| 22 | A novel KCNA1 mutation in a patient with paroxysmal ataxia, myokymia, painful contractures and metabolic dysfunctions. *Molecular and Cellular Neurosciences*, **2017**, 83, 6-12 | 4.8 | 14 |
| 21 | deficiency leads to a syndrome of abnormal striatum, congenital cataract and intellectual disability. *Journal of Medical Genetics*, **2016**, 53, 786-792 | 5.8 | 14 |
| 20 | Reconciling the discrepancies on the involvement of large-conductance Ca(2+)-activated K channels in glioblastoma cell migration. *Frontiers in Cellular Neuroscience*, **2015**, 9, 152 | 6.1 | 13 |
| 19 | Lethal digenic mutations in the K channels Kir4.1 () and SLACK () associated with severe-disabling seizures and neurodevelopmental delay. *Journal of Neurophysiology*, **2017**, 118, 2402-2411 | 3.2 | 12 |
| 18 | A Calsequestrin-1 Mutation Associated with a Skeletal Muscle Disease Alters Sarcoplasmic Ca2+ Release. *PLoS ONE*, **2016**, 11, e0155516 | 3.7 | 12 |
| 17 | Ion Channels Involvement in Neurodevelopmental Disorders. *Neuroscience*, **2020**, 440, 337-359 | 3.9 | 11 |
| 16 | 5-HT2 receptors-mediated modulation of voltage-gated K+ channels and neurophysiopathological correlates. *Experimental Brain Research*, **2013**, 230, 453-62 | 2.3 | 10 |
| 15 | The role of ion channels in the hypoxia-induced aggressiveness of glioblastoma. *Frontiers in Cellular Neuroscience*, **2014**, 8, 467 | 6.1 | 10 |
| 14 | A CASQ1 founder mutation in three Italian families with protein aggregate myopathy and hyperCKaemia. *Journal of Medical Genetics*, **2015**, 52, 617-26 | 5.8 | 9 |
| 13 | 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, | 6.3 | 9 |
| 12 | 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 | 4.9 | 7 |
| 11 | Identification of a New Mutation Underlying Regressive Episodic Ataxia Type I. *Frontiers in Neurology*, **2018**, 9, 587 | 4.1 | 6 |
| 10 | 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 | 4.6 | 4 |

# List of Publications

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| 9 | 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 | 6.1 | 3 |
| 8 | 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, 2653-65 | 3.2 | 3 |
| 7 | 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 | 3 | 3 |
| 6 | 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 | 4.6 | 2 |
| 5 | (Kir5.1) Gene Ablation Causes Subfertility and Increases the Prevalence of Morphologically Abnormal Spermatozoa. *International Journal of Molecular Sciences*, **2021**, 22, | 6.3 | 2 |
| 4 | Reply to F508del-CFTR is not corrected by thymosin 1 *Nature Medicine*, **2018**, 24, 891-893 | 50.5 | 2 |
| 3 | Biallelic Variants Associated with Intellectual Disability and Neurodevelopmental Disorders Alter TRESK Channel Activity. *International Journal of Molecular Sciences*, **2021**, 22, | 6.3 | 1 |
| 2 | In Vivo Microdialysis to Study Striatal Dopaminergic Neurodegeneration. *Neuromethods*, **2013**, 23-42 | 0.4 | 0 |
| 1 | Animal Models of Episodic Ataxia Type 1 (EA1) **2015**, 797-807 | | |