Luigi Catacuzzeno

List of Publications by Citations

42 papers	866 citations	19 h-index	28 g-index
48 ext. papers	1,045 ext. citations	4.6 avg, IF	3.95 L-index

#	Paper	IF	Citations
42	CXCL12-induced glioblastoma cell migration requires intermediate conductance Ca2+-activated K+ channel activity. *American Journal of Physiology - Cell Physiology*, **2010**, 299, C175-84	5.4	83
41	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
40	The inhibition of KCa3.1 channels activity reduces cell motility in glioblastoma derived cancer stem cells. *PLoS ONE*, **2012**, 7, e47825	3.7	50
39	Update on the implication of potassium channels in autism: K(+) channelautism spectrum disorder. *Frontiers in Cellular Neuroscience*, **2015**, 9, 34	6.1	49
38	Serum-activated K and Cl currents underlay U87-MG glioblastoma cell migration. *Journal of Cellular Physiology*, **2011**, 226, 1926-33	7	49
37	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
36	Expression and modulation of the intermediate- conductance Ca2+-activated K+ channel in glioblastoma GL-15 cells. *Cellular Physiology and Biochemistry*, **2006**, 18, 47-56	3.9	42
35	New insights into the pathogenesis and therapeutics of episodic ataxia type 1. *Frontiers in Cellular Neuroscience*, **2015**, 9, 317	6.1	40
34	NPPB block of the intermediate-conductance Ca2+-activated K+ channel. *European Journal of Pharmacology*, **2004**, 497, 1-6	5.3	38
33	Expression and Role of the Intermediate-Conductance Calcium-Activated Potassium Channel KCa3.1 in Glioblastoma. *Journal of Signal Transduction*, **2012**, 2012, 421564		36
32	The differential expression of low-threshold K+ currents generates distinct firing patterns in different subtypes of adult mouse trigeminal ganglion neurones. *Journal of Physiology*, **2008**, 586, 5101-18	3.9	35
31	Novel phenotype associated with a mutation in the KCNA1(Kv1.1) gene. *Frontiers in Physiology*, **2014**, 5, 525	4.6	30
30	Histamine hyperpolarizes human glioblastoma cells by activating the intermediate-conductance Ca2+-activated K+ channel. *American Journal of Physiology - Cell Physiology*, **2009**, 297, C102-10	5.4	29
29	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
28	BK channels blockage inhibits hypoxia-induced migration and chemoresistance to cisplatin in human glioblastoma cells. *Journal of Cellular Physiology*, **2018**, 233, 6866-6877	7	24
27	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
26	Structure, Gating and Basic Functions of the Ca2+-activated K Channel of Intermediate Conductance. *Current Neuropharmacology*, **2018**, 16, 608-617	7.6	22

25	Identification of key signaling molecules involved in the activation of the swelling-activated chloride current in human glioblastoma cells. *Journal of Membrane Biology*, **2014**, 247, 45-55	2.3	20
24	Role of KCa3.1 Channels in Modulating Ca Oscillations during Glioblastoma Cell Migration and Invasion. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	20
23	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
22	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
21	The increased incidence of malignant melanoma in obese individuals is due to impaired melanogenesis and melanocyte DNA repair. *Medical Hypotheses*, **2012**, 78, 533-5	3.8	13
20	A Calsequestrin-1 Mutation Associated with a Skeletal Muscle Disease Alters Sarcoplasmic Ca2+ Release. *PLoS ONE*, **2016**, 11, e0155516	3.7	12
19	Kv1.3 activity perturbs the homeostatic properties of astrocytes in glioma. *Scientific Reports*, **2018**, 8, 7654	4.9	11
18	A theoretical study on the role of Ca(2+)-activated K+ channels in the regulation of hormone-induced Ca2+ oscillations and their synchronization in adjacent cells. *Journal of Theoretical Biology*, **2012**, 309, 103-12	2.3	10
17	The role of ion channels in the hypoxia-induced aggressiveness of glioblastoma. *Frontiers in Cellular Neuroscience*, **2014**, 8, 467	6.1	10
16	Radiation Increases Functional KCa3.1 Expression and Invasiveness in Glioblastoma. *Cancers*, **2019**, 11,	6.6	9
15	A model of intracellular Ca2+ oscillations based on the activity of the intermediate-conductance Ca2+-activated K+ channels. *Biophysical Chemistry*, **2005**, 113, 17-23	3.5	9
14	The Volume-Regulated Anion Channel in Glioblastoma. *Cancers*, **2019**, 11,	6.6	7
13	Are tyrosinase inhibitors in sunscreens and cosmetics enhancing UV carcinogenicity?. *Experimental Dermatology*, **2015**, 24, 546-7	4	7
12	Modeling study of the effects of membrane surface charge on calcium microdomains and neurotransmitter release. *Biophysical Journal*, **2008**, 95, 2160-71	2.9	6
11	Synthetic aromatic compounds interfering with melanogenesis are responsible of the rising trend of malignant melanoma incidence. *Medical Hypotheses*, **2011**, 76, 374-7	3.8	5
10	Voltage-dependent gating in K channels: experimental results and quantitative models. *Pflugers Archiv European Journal of Physiology*, **2020**, 472, 27-47	4.6	4
9	Ion Channels in Glioma Malignancy. *Reviews of Physiology, Biochemistry and Pharmacology*, **2020**, 1	2.9	4
8	Simulation of Gating Currents of the Shaker K Channel Using a Brownian Model of the Voltage Sensor. *Biophysical Journal*, **2019**, 117, 2005-2019	2.9	4

7	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
6	Ca -dependent and Ca -independent somatic release from trigeminal neurons. *Journal of Cellular Physiology*, **2019**, 234, 10977-10989	7	3
5	Pain Control by Proprioceptive and Exteroceptive Stimulation at the Trigeminal Level. *Frontiers in Physiology*, **2018**, 9, 1037	4.6	3
4	Multiscale modeling shows that dielectric differences make NaV channels faster than KV channels. *Journal of General Physiology*, **2021**, 153,	3.4	2
3	Experimental challenges in ion channel research: uncovering basic principles of permeation and gating in potassium channels. *Advances in Physics: X*, **2022**, 7,	5.1	1
2	Gating current noise produced by Brownian models of a voltage sensor. *Biophysical Journal*, **2021**, 120, 3983-4001	2.9	0
1	The main product of specialized tissues regulates cell life and may cause neoplastic transformation. *Medical Hypotheses*, **2010**, 74, 847-54	3.8	