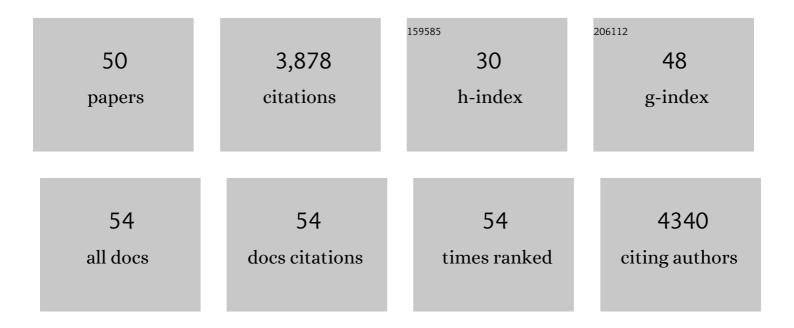
## Igor Medina

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The NMDA Receptor Is Coupled to the ERK Pathway by a Direct Interaction between NR2B and RasGRF1. Neuron, 2003, 40, 775-784.	8.1	394
2	Ca2+ Oscillations Mediated by the Synergistic Excitatory Actions of GABAA and NMDA Receptors in the Neonatal Hippocampus. Neuron, 1997, 18, 243-255.	8.1	377
3	Opposing role of synaptic and extrasynaptic NMDA receptors in regulation of the extracellular signal-regulated kinases (ERK) activity in cultured rat hippocampal neurons. Journal of Physiology, 2006, 572, 789-798.	2.9	275
4	SynGAP-MUPP1-CaMKII Synaptic Complexes Regulate p38 MAP Kinase Activity and NMDA Receptor- Dependent Synaptic AMPA Receptor Potentiation. Neuron, 2004, 43, 563-574.	8.1	254
5	Current view on the functional regulation of the neuronal K+-Clâ^ cotransporter KCC2. Frontiers in Cellular Neuroscience, 2014, 8, 27.	3.7	186
6	A Novel Inward Rectifier K+ Channel with Unique Pore Properties. Neuron, 1998, 20, 995-1005.	8.1	170
7	Genetically encoded impairment of neuronal <scp>KCC</scp> 2 cotransporter function in human idiopathic generalized epilepsy. EMBO Reports, 2014, 15, 766-774.	4.5	163
8	Activity-Dependent Dendritic Release of BDNF and Biological Consequences. Molecular Neurobiology, 2009, 39, 37-49.	4.0	152
9	A Novel In Vitro Preparation: the Intact Hippocampal Formation. Neuron, 1997, 19, 743-749.	8.1	136
10	WNK1-regulated inhibitory phosphorylation of the KCC2 cotransporter maintains the depolarizing action of GABA in immature neurons. Science Signaling, 2015, 8, ra65.	3.6	133
11	Early expression of KCC2 in rat hippocampal cultures augments expression of functional GABA synapses. Journal of Physiology, 2005, 566, 671-679.	2.9	126
12	Backpropagating Action Potentials Trigger Dendritic Release of BDNF during Spontaneous Network Activity. Journal of Neuroscience, 2008, 28, 7013-7023.	3.6	116
13	Efficient transfection of DNA or shRNA vectors into neurons using magnetofection. Nature Protocols, 2007, 2, 3090-3101.	12.0	114
14	KCC2 regulates actin dynamics in dendritic spines via interaction with Î <sup>2</sup> -PIX. Journal of Cell Biology, 2015, 209, 671-686.	5.2	97
15	Mutations in KCNJ13 Cause Autosomal-Dominant Snowflake Vitreoretinal Degeneration. American Journal of Human Genetics, 2008, 82, 174-180.	6.2	93
16	Knocking down of the KCC2 in rat hippocampal neurons increases intracellular chloride concentration and compromises neuronal survival. Journal of Physiology, 2011, 589, 2475-2496.	2.9	88
17	Gβγ Binding to GIRK4 Subunit Is Critical for G Protein-gated K+ Channel Activation. Journal of Biological Chemistry, 1998, 273, 16946-16952.	3.4	79
18	Mechanism of BDNF Modulation in GABAergic Synaptic Transmission in Healthy and Disease Brains. Frontiers in Cellular Neuroscience, 2018, 12, 273.	3.7	72

IGOR MEDINA

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19	Molecular architecture of potassium chloride co-transporter KCC2. Scientific Reports, 2017, 7, 16452.	3.3	66
20	Impaired regulation of KCC2 phosphorylation leads to neuronal network dysfunction and neurodevelopmental pathology. Science Signaling, 2019, 12, .	3.6	66
21	Genetically encoded Cl-Sensor as a tool for monitoring of Cl-dependent processes in small neuronal compartments. Journal of Neuroscience Methods, 2010, 193, 14-23.	2.5	60
22	A Switch Mechanism for Gβγ Activation of IKACh. Journal of Biological Chemistry, 2000, 275, 29709-29716.	3.4	55
23	AAVâ€mediated expression of wildâ€type and ALSâ€linked mutant VAPB selectively triggers death of motoneurons through a Ca <sup>2+</sup> â€dependent ERâ€associated pathway. Journal of Neurochemistry, 2010, 114, 795-809.	3.9	52
24	Maturation of kainate-induced epileptiform activities in interconnected intact neonatal limbic structures in vitro. European Journal of Neuroscience, 1999, 11, 3468-3480.	2.6	50
25	The small molecule CLP257 does not modify activity of the K+–Clâ^' co-transporter KCC2 but does potentiate GABAA receptor activity. Nature Medicine, 2017, 23, 1394-1396.	30.7	47
26	Oxytocin administration in neonates shapes hippocampal circuitry and restores social behavior in a mouse model of autism. Molecular Psychiatry, 2021, 26, 7582-7595.	7.9	45
27	Mobilization of intracellular calcium stores participates in the rise of [Ca2+]iand the toxic actions of the HIV coat protein GP120. European Journal of Neuroscience, 1999, 11, 1167-1178.	2.6	43
28	Pro-Brain-Derived Neurotrophic Factor Inhibits GABAergic Neurotransmission by Activating Endocytosis and Repression of GABA <sub>A</sub> Receptors. Journal of Neuroscience, 2014, 34, 13516-13534.	3.6	43
29	Structure, G Protein Activation, and Functional Relevance of the Cardiac G Protein-Gated K+ Channel, IKACh. Annals of the New York Academy of Sciences, 1999, 868, 386-398.	3.8	35
30	Enhanced synaptic activity and epileptiform events in the embryonic KCC2 deficient hippocampus. Frontiers in Cellular Neuroscience, 2011, 5, 23.	3.7	35
31	Change in the shape and density of dendritic spines caused by overexpression of acidic calponin in cultured hippocampal neurons. Hippocampus, 2006, 16, 183-197.	1.9	32
32	Improved method for efficient imaging of intracellular Clâ^' with Cl-Sensor using conventional fluorescence setup. Frontiers in Molecular Neuroscience, 2013, 6, 7.	2.9	27
33	Calcium-dependent inactivation of the monosynaptic NMDA EPSCs in rat hippocampal neurons in culture. European Journal of Neuroscience, 1999, 11, 2422-2430.	2.6	23
34	The adipocyte hormone leptin sets the emergence of hippocampal inhibition in mice. ELife, 2018, 7, .	6.0	20
35	Process formation results from the imbalance between motor-mediated forces. Journal of Cell Science, 2001, 114, 3899-3904.	2.0	20
36	Characterization in Cultured Cerebellar Granule Cells and in the Developing Rat Brain of mRNA Variants for the NMDA Receptor 2C Subunit. Journal of Neurochemistry, 2008, 74, 1798-1808.	3.9	16

IGOR MEDINA

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37	A Novel View on the Role of Intracellular Tails in Surface Delivery of the Potassium-Chloride Cotransporter KCC2. ENeuro, 2017, 4, ENEURO.0055-17.2017.	1.9	16
38	Staurosporine and NEM mainly impair WNK-SPAK/OSR1 mediated phosphorylation of KCC2 and NKCC1. PLoS ONE, 2020, 15, e0232967.	2.5	14
39	The calcium-dependent transient inactivation of recombinant NMDA receptor-channel does not involve the high affinity calmodulin binding site of the NR1 subunit. Neuroscience Letters, 1997, 223, 137-139.	2.1	13
40	GABA Neurotransmission and Neural Cation-Chloridec Co-transporters: Actions Beyond Ion Transport. Critical Reviews in Neurobiology, 2006, 18, 105-112.	3.1	13
41	Extrasynaptic NMDA Receptors Reshape Gene Ranks. Science's STKE: Signal Transduction Knowledge Environment, 2007, 2007, pe23.	3.9	10
42	Molecular cloning and biochemical characterization of two cation chloride cotransporter subfamily members of Hydra vulgaris. PLoS ONE, 2017, 12, e0179968.	2.5	9
43	The MUPP1–SynGAPα protein complex does not mediate activity-induced LTP. Molecular and Cellular Neurosciences, 2008, 38, 183-188.	2.2	8
44	Back-propagating action potential. Communicative and Integrative Biology, 2008, 1, 153-155.	1.4	8
45	Smoothened receptor Signaling regulates the developmental shift of GABA polarity in rat somatosensory cortex. Journal of Cell Science, 2020, 133, .	2.0	8
46	Leptin increases GABAergic synaptogenesis through the Rho guanine exchange factor β-PIX in developing hippocampal neurons. Science Signaling, 2021, 14, .	3.6	8
47	The hypoglycemic sulphonylurea tolbutamide increases - but not kainate-activated currents in hippocampal neurons in culture. European Journal of Pharmacology, 1993, 249, 325-329.	3.5	3
48	Contribution of Smoothened Receptor Signaling in GABAergic Neurotransmission and Chloride Homeostasis in the Developing Rodent Brain. Frontiers in Physiology, 2021, 12, 798066.	2.8	3
49	Methods for investigating the activities of neuronal chloride transporters. , 2020, , 21-41.		1
50	KCC2 regulates actin dynamics in dendritic spines via interaction with β-PIX. Journal of Experimental Medicine, 2015, 212, 2127OIA56.	8.5	0