

Guillermo R González-Burgos

List of Publications by Year in descending order

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56
papers

5,909
citations

117625

34
h-index

161849

54
g-index

59
all docs

59
docs citations

59
times ranked

7054
citing authors

#	ARTICLE	IF	CITATIONS
1	New insights into the classification and nomenclature of cortical GABAergic interneurons. <i>Nature Reviews Neuroscience</i> , 2013, 14, 202-216.	10.2	707
2	GABA Neurons and the Mechanisms of Network Oscillations: Implications for Understanding Cortical Dysfunction in Schizophrenia. <i>Schizophrenia Bulletin</i> , 2008, 34, 944-961.	4.3	500
3	Alterations in Cortical Network Oscillations and Parvalbumin Neurons in Schizophrenia. <i>Biological Psychiatry</i> , 2015, 77, 1031-1040.	1.3	409
4	NMDA Receptor Hypofunction, Parvalbumin-Positive Neurons, and Cortical Gamma Oscillations in Schizophrenia. <i>Schizophrenia Bulletin</i> , 2012, 38, 950-957.	4.3	388
5	Neuroplasticity of Neocortical Circuits in Schizophrenia. <i>Neuropsychopharmacology</i> , 2008, 33, 141-165.	5.4	329
6	Pathophysiologically based treatment interventions in schizophrenia. <i>Nature Medicine</i> , 2006, 12, 1016-1022.	30.7	307
7	Alterations of Cortical GABA Neurons and Network Oscillations in Schizophrenia. <i>Current Psychiatry Reports</i> , 2010, 12, 335-344.	4.5	235
8	Impairment of Long-term Potentiation and Associative Memory in Mice That Overexpress Extracellular Superoxide Dismutase. <i>Journal of Neuroscience</i> , 2000, 20, 7631-7639.	3.6	194
9	GABA Neuron Alterations, Cortical Circuit Dysfunction and Cognitive Deficits in Schizophrenia. <i>Neural Plasticity</i> , 2011, 2011, 1-24.	2.2	193
10	Localization of Calcium-binding Proteins in Physiologically and Morphologically Characterized Interneurons of Monkey Dorsolateral Prefrontal Cortex. <i>Cerebral Cortex</i> , 2005, 15, 1178-1186.	2.9	158
11	Dopamine Increases Excitability of Pyramidal Neurons in Primate Prefrontal Cortex. <i>Journal of Neurophysiology</i> , 2000, 84, 2799-2809.	1.8	154
12	Functional Properties of Fast Spiking Interneurons and Their Synaptic Connections With Pyramidal Cells in Primate Dorsolateral Prefrontal Cortex. <i>Journal of Neurophysiology</i> , 2005, 93, 942-953.	1.8	140
13	Glutamate Receptor Subtypes Mediating Synaptic Activation of Prefrontal Cortex Neurons: Relevance for Schizophrenia. <i>Journal of Neuroscience</i> , 2011, 31, 142-156.	3.6	136
14	Protracted Developmental Trajectories of GABA _A Receptor $\alpha 1$ and $\alpha 2$ Subunit Expression in Primate Prefrontal Cortex. <i>Biological Psychiatry</i> , 2009, 65, 1015-1023.	1.3	134
15	Intrinsic excitatory connections in the prefrontal cortex and the pathophysiology of schizophrenia. <i>Brain Research Bulletin</i> , 2000, 52, 309-317.	3.0	121
16	Cluster Analysis-Based Physiological Classification and Morphological Properties of Inhibitory Neurons in Layers 2-3 of Monkey Dorsolateral Prefrontal Cortex. <i>Journal of Neurophysiology</i> , 2005, 94, 3009-3022.	1.8	120
17	Properties of Excitatory Synaptic Responses in Fast-spiking Interneurons and Pyramidal Cells from Monkey and Rat Prefrontal Cortex. <i>Cerebral Cortex</i> , 2006, 16, 541-552.	2.9	118
18	Interneuron Diversity in Layers 2-3 of Monkey Prefrontal Cortex. <i>Cerebral Cortex</i> , 2009, 19, 1597-1615.	2.9	117

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19	Parvalbumin-Positive Basket Interneurons in Monkey and Rat Prefrontal Cortex. <i>Journal of Neurophysiology</i> , 2008, 100, 2348-2360.	1.8	104
20	Distinct Physiological Maturation of Parvalbumin-Positive Neuron Subtypes in Mouse Prefrontal Cortex. <i>Journal of Neuroscience</i> , 2017, 37, 4883-4902.	3.6	102
21	Postsynaptic diacylglycerol lipase $\hat{\pm}$ mediates retrograde endocannabinoid suppression of inhibition in mouse prefrontal cortex. <i>Journal of Physiology</i> , 2011, 589, 4857-4884.	2.9	83
22	Perisomatic inhibition and cortical circuit dysfunction in schizophrenia. <i>Current Opinion in Neurobiology</i> , 2011, 21, 866-872.	4.2	81
23	Voltage-Gated Sodium Channels Shape Subthreshold EPSPs in Layer 5 Pyramidal Neurons From Rat Prefrontal Cortex. <i>Journal of Neurophysiology</i> , 2001, 86, 1671-1684.	1.8	76
24	Functional Maturation of Excitatory Synapses in Layer 3 Pyramidal Neurons during Postnatal Development of the Primate Prefrontal Cortex. <i>Cerebral Cortex</i> , 2008, 18, 626-637.	2.9	75
25	Electrophysiological Differences Between Neurogliaform Cells From Monkey and Rat Prefrontal Cortex. <i>Journal of Neurophysiology</i> , 2007, 97, 1030-1039.	1.8	64
26	The role of glutamatergic inputs onto parvalbumin-positive interneurons: relevance for schizophrenia. <i>Reviews in the Neurosciences</i> , 2012, 23, 97-109.	2.9	62
27	Electrophysiological classes of layer 2/3 pyramidal cells in monkey prefrontal cortex. <i>Journal of Neurophysiology</i> , 2012, 108, 595-609.	1.8	61
28	Functional Maturation of GABA Synapses During Postnatal Development of the Monkey Dorsolateral Prefrontal Cortex. <i>Cerebral Cortex</i> , 2015, 25, 4076-4093.	2.9	61
29	Electrophysiological Heterogeneity of Fast-Spiking Interneurons: Chandelier versus Basket Cells. <i>PLoS ONE</i> , 2013, 8, e70553.	2.5	57
30	Synaptic Efficacy during Repetitive Activation of Excitatory Inputs in Primate Dorsolateral Prefrontal Cortex. <i>Cerebral Cortex</i> , 2004, 14, 530-542.	2.9	50
31	Selective reduction by dopamine of excitatory synaptic inputs to pyramidal neurons in primate prefrontal cortex. <i>Journal of Physiology</i> , 2002, 539, 707-712.	2.9	49
32	Dopaminergic Modulation of Short-Term Synaptic Plasticity in Fast-Spiking Interneurons of Primate Dorsolateral Prefrontal Cortex. <i>Journal of Neurophysiology</i> , 2005, 94, 4168-4177.	1.8	44
33	Dopamine D1 receptor activation regulates sodium channel-dependent EPSP amplification in rat prefrontal cortex pyramidal neurons. <i>Journal of Physiology</i> , 2007, 581, 981-1000.	2.9	41
34	Different calcium channels mediate transmitter release evoked by transient or sustained depolarization at mammalian sympathetic ganglia. <i>Neuroscience</i> , 1995, 64, 117-123.	2.3	40
35	Chronic cold exposure increases RGS7 expression and decreases $\hat{\pm}$ autoreceptor-mediated inhibition of noradrenergic locus coeruleus neurons. <i>European Journal of Neuroscience</i> , 2008, 27, 2433-2443.	2.6	38
36	Distinct Properties of Layer 3 Pyramidal Neurons from Prefrontal and Parietal Areas of the Monkey Neocortex. <i>Journal of Neuroscience</i> , 2019, 39, 7277-7290.	3.6	37

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37	GABA Transporter GAT1 Prevents Spillover at Proximal and Distal GABA Synapses Onto Primate Prefrontal Cortex Neurons. <i>Journal of Neurophysiology</i> , 2009, 101, 533-547.	1.8	35
38	Cholinergic modulation of neuronal excitability and recurrent excitationâ€inhibition in prefrontal cortex circuits: implications for gamma oscillations. <i>Journal of Physiology</i> , 2013, 591, 4725-4748.	2.9	35
39	Dopamine modulation of neuronal function in the monkey prefrontal cortex. <i>Physiology and Behavior</i> , 2002, 77, 537-543.	2.1	34
40	Selective Expression of KCNS3 Potassium Channel Î±-Subunit in Parvalbumin-Containing GABA Neurons in the Human Prefrontal Cortex. <i>PLoS ONE</i> , 2012, 7, e43904.	2.5	30
41	Presynaptic Effects of N-Methyl-D-Aspartate Receptors Enhance Parvalbumin Cellâ€Mediated Inhibition of Pyramidal Cells in Mouse Prefrontal Cortex. <i>Biological Psychiatry</i> , 2018, 84, 460-470.	1.3	28
42	GABA Transporter GAT1: A Crucial Determinant of GABAB Receptor Activation in Cortical Circuits?. <i>Advances in Pharmacology</i> , 2010, 58, 175-204.	2.0	25
43	Inhibition and Timing in Cortical Neural Circuits. <i>American Journal of Psychiatry</i> , 2007, 164, 12-12.	7.2	20
44	Daily changes in presynaptic cholinergic activity of rat sympathetic superior cervical ganglion. <i>Brain Research</i> , 1994, 636, 181-186.	2.2	18
45	Cell Type- and Layer-Specific Muscarinic Potentiation of Excitatory Synaptic Drive onto Parvalbumin Neurons in Mouse Prefrontal Cortex. <i>ENeuro</i> , 2018, 5, ENEURO.0208-18.2018.	1.9	17
46	Effect of Î³-aminobutyric acid on synaptic transmission and long-term potentiation in rat superior cervical ganglion. <i>Brain Research</i> , 1994, 658, 1-7.	2.2	16
47	In vitro Effect of Thyroxine on Cholinergic Neurotransmission in Rat Sympathetic Superior Cervical Ganglion. <i>Neuroendocrinology</i> , 1991, 54, 552-558.	2.5	14
48	Functional properties of GABA synaptic inputs onto GABA neurons in monkey prefrontal cortex. <i>Journal of Neurophysiology</i> , 2015, 113, 1850-1861.	1.8	11
49	Editorial: Neuromodulation of executive circuits. <i>Frontiers in Neural Circuits</i> , 2015, 9, 58.	2.8	8
50	l-Proline, GABA Synthesis and Gamma Oscillations in Schizophrenia. <i>Trends in Neurosciences</i> , 2016, 39, 797-798.	8.6	8
51	Picrotoxin-sensitive receptors mediate Î³-aminobutyric acid-induced modulation of synaptic plasticity in rat superior cervical ganglion. <i>Brain Research</i> , 1997, 751, 148-151.	2.2	6
52	Neurochemical evidence for a neuronal GABAergic system in the rat sympathetic superior cervical ganglion. <i>Journal of Neural Transmission</i> , 1992, 89, 27-40.	2.8	5
53	Kcns3 deficiency disrupts Parvalbumin neuron physiology in mouse prefrontal cortex: Implications for the pathophysiology of schizophrenia. <i>Neurobiology of Disease</i> , 2021, 155, 105382.	4.4	5
54	Histological Characterization of Physiologically Determined Fast-Spiking Interneurons in Slices of Primate Dorsolateral Prefrontal Cortex. <i>Neuromethods</i> , 2012, , 159-181.	0.3	4

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55	Differential gene expression between callosal and ipsilateral projection neurons in the monkey dorsolateral prefrontal and posterior parietal cortices. <i>Cerebral Cortex</i> , 2023, 33, 1581-1594.	2.9	4
56	Cellular Mechanisms of Working Memory and its Modulation by Dopamine in the Prefrontal Cortex of Primates and Rats. , 2007, , 125-152.		1