

# Rafael Gutierrez

## List of Publications by Year in descending order

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45  
papers

1,935  
citations

218677

26  
h-index

243625

44  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1791  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synaptic and Vesicular Coexistence of VGLUT and VGAT in Selected Excitatory and Inhibitory Synapses. <i>Journal of Neuroscience</i> , 2010, 30, 7634-7645.	3.6	142
2	Plasticity of the GABAergic Phenotype of the "Glutamatergic" Granule Cells of the Rat Dentate Gyrus. <i>Journal of Neuroscience</i> , 2003, 23, 5594-5598.	3.6	119
3	The dual glutamatergic "GABAergic" phenotype of hippocampal granule cells. <i>Trends in Neurosciences</i> , 2005, 28, 297-303.	8.6	117
4	Expression of connexin genes in hippocampus of kainate-treated and kindled rats under conditions of experimental epilepsy. <i>Molecular Brain Research</i> , 2000, 83, 44-51.	2.3	98
5	Synaptic reorganization in explanted cultures of rat hippocampus. <i>Brain Research</i> , 1999, 815, 304-316.	2.2	95
6	Seizures Induce Simultaneous GABAergic and Glutamatergic Transmission in the Dentate Gyrus-CA3 System. <i>Journal of Neurophysiology</i> , 2000, 84, 3088-3090.	1.8	91
7	Activity-dependent expression of GAD67 in the granule cells of the rat hippocampus. <i>Brain Research</i> , 2001, 917, 139-146.	2.2	91
8	Activity-Dependent Expression of Simultaneous Glutamatergic and GABAergic Neurotransmission From the Mossy Fibers In Vitro. <i>Journal of Neurophysiology</i> , 2002, 87, 2562-2570.	1.8	86
9	Kindling induces transient fast inhibition in the dentate gyrus-CA3 projection. <i>European Journal of Neuroscience</i> , 2001, 13, 1371-1379.	2.6	84
10	Programmed and Induced Phenotype of the Hippocampal Granule Cells. <i>Journal of Neuroscience</i> , 2005, 25, 6939-6946.	3.6	83
11	The GABAergic phenotype of the "glutamatergic" granule cells of the dentate gyrus. <i>Progress in Neurobiology</i> , 2003, 71, 337-358.	5.7	81
12	Vesicular GABA transporter mRNA expression in the dentate gyrus and in mossy fiber synaptosomes. <i>Molecular Brain Research</i> , 2001, 93, 209-214.	2.3	65
13	Pre-synaptic histamine H3 receptors regulate glutamate, but not GABA release in rat thalamus. <i>Neuropharmacology</i> , 2007, 52, 527-535.	4.1	53
14	Å Oscillatory Activity in the CA3 Hippocampal Area is Depressed by Aberrant GABAergic Transmission from the Dentate Gyrus after Seizures. <i>Journal of Neuroscience</i> , 2007, 27, 251-259.	3.6	52
15	GABA Actions in Hippocampal Area CA3 During Postnatal Development: Differential Shift From Depolarizing to Hyperpolarizing in Somatic and Dendritic Compartments. <i>Journal of Neurophysiology</i> , 2008, 99, 1523-1534.	1.8	51
16	Mossy fiber synaptic transmission: communication from the dentate gyrus to area CA3. <i>Progress in Brain Research</i> , 2007, 163, 109-805.	1.4	47
17	Activity-Dependent Induction of Multitransmitter Signaling Onto Pyramidal Cells and Interneurons of Hippocampal Area CA3. <i>Journal of Neurophysiology</i> , 2003, 89, 3155-3167.	1.8	45
18	The GABAergic projection of the dentate gyrus to hippocampal area CA3 of the rat: pre- and postsynaptic actions after seizures. <i>Journal of Physiology</i> , 2005, 567, 939-949.	2.9	43

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19	On Cotransmission & Neurotransmitter Phenotype Plasticity. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2007, 7, 138-146.	3.4	40
20	Epileptiform activity induced by low Mg <sup>2+</sup> in cultured rat hippocampal slices. <i>Brain Research</i> , 1999, 815, 294-303.	2.2	38
21	Mixed Electrical-chemical Synapses in Adult Rat Hippocampus are Primarily Glutamatergic and Coupled by Connexin-36. <i>Frontiers in Neuroanatomy</i> , 2012, 6, 13.	1.7	35
22	Mixed electrical-chemical transmission between hippocampal mossy fibers and pyramidal cells. <i>European Journal of Neuroscience</i> , 2012, 35, 76-82.	2.6	35
23	Co-Existence of GABA and Glu in the Hippocampal Granule Cells: Implications for Epilepsy. <i>Current Topics in Medicinal Chemistry</i> , 2006, 6, 975-978.	2.1	34
24	Co-release of glutamate and GABA from single, identified mossy fibre giant boutons. <i>Journal of Physiology</i> , 2012, 590, 4789-4800.	2.9	34
25	Glutamic acid decarboxylase (GAD)67, but not GAD65, is constitutively expressed during development and transiently overexpressed by activity in the granule cells of the rat. <i>Neuroscience Letters</i> , 2003, 353, 69-71.	2.1	30
26	Mixed neurotransmission in the hippocampal mossy fibers. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 210.	3.7	28
27	Presence of claudins mRNA in the brain. <i>Molecular Brain Research</i> , 2002, 104, 250-254.	2.3	24
28	Electrical coupling between hippocampal neurons: contrasting roles of principal cell gap junctions and interneuron gap junctions. <i>Cell and Tissue Research</i> , 2018, 373, 671-691.	2.9	24
29	Activation of STAT3 Regulates Reactive Astrogliosis and Neuronal Death Induced by A $\beta$ 2O Neurotoxicity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7458.	4.1	23
30	Neuraminidase activity in different regions of the seizing epileptic and non-epileptic brain. <i>Brain Research</i> , 2003, 964, 211-217.	2.2	21
31	A novel class of peptide found in scorpion venom with neurodepressant effects in peripheral and central nervous system of the rat. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003, 1649, 58-67.	2.3	18
32	Early Appearance and Spread of Fast Ripples in the Hippocampus in a Model of Cortical Traumatic Brain Injury. <i>Journal of Neuroscience</i> , 2018, 38, 9034-9046.	3.6	15
33	Excitation-inhibition balance in the CA3 network - neuronal specificity and activity-dependent plasticity. <i>European Journal of Neuroscience</i> , 2011, 33, 1771-1785.	2.6	14
34	Tonic modulation of inhibition by dopamine D4 receptors in the rat hippocampus. <i>Hippocampus</i> , 2005, 15, 254-259.	1.9	13
35	Blockade of the membranal GABA transporter potentiates GABAergic responses evoked in pyramidal cells by mossy fiber activation after seizures. <i>Hippocampus</i> , 2005, 15, 281-284.	1.9	13
36	Target-Dependent Compartmentalization of the Corelease of Glutamate and GABA from the Mossy Fibers. <i>Journal of Neuroscience</i> , 2017, 37, 701-714.	3.6	11

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37	Entorhinal cortex lesions result in adenosine-sensitive high frequency oscillations in the hippocampus. <i>Experimental Neurology</i> , 2015, 271, 319-328.	4.1	9
38	Granule cells born in the adult rat hippocampus can regulate the expression of GABAergic markers. <i>Experimental Neurology</i> , 2012, 237, 134-141.	4.1	8
39	Neuronal Glutamatergic Network Electrically Wired with Silent But Activatable Gap Junctions. <i>Journal of Neuroscience</i> , 2020, 40, 4661-4672.	3.6	7
40	Dissociation of CA3 pyramidal cells with attached, functional, identified mossy fiber and interneuronal boutons for studying glutamatergic and GABAergic synaptic transmission. <i>Journal of Neuroscience Methods</i> , 2012, 208, 155-160.	2.5	6
41	Cocultures of GFP <sup>+</sup> granule cells with GFP <sup>+</sup> pyramidal cells and interneurons for the study of mossy fiber neurotransmission with paired recordings. <i>Hippocampus</i> , 2013, 23, 247-252.	1.9	4
42	The plastic neurotransmitter phenotype of the hippocampal granule cells and of the moss in their mossy fibers. <i>Journal of Chemical Neuroanatomy</i> , 2016, 73, 9-20.	2.1	4
43	Differential frequency-dependent antidromic resonance of the Schaffer collaterals and mossy fibers. <i>Brain Structure and Function</i> , 2016, 221, 1793-1807.	2.3	3
44	Glutamic acid decarboxylase (GAD)67, but not GAD65, is constitutively expressed during development and transiently overexpressed by activity in the granule cells of the rat. <i>Neuroscience Letters</i> , 2003, 353, 69-69.	2.1	1
45	Kindling the GABAergic Phenotype of the Glutamatergic Granule Cells. , 2005, , 71-79.		0