

# Donna L Gruol

## List of Publications by Year in descending order

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64  
papers

2,325  
citations

172457

29  
h-index

214800

47  
g-index

64  
all docs

64  
docs citations

64  
times ranked

2590  
citing authors

#	ARTICLE	IF	CITATIONS
1	IL-6 regulation of synaptic function in the CNS. <i>Neuropharmacology</i> , 2015, 96, 42-54.	4.1	196
2	Chronic Interleukin-6 Alters NMDA Receptor-Mediated Membrane Responses and Enhances Neurotoxicity in Developing CNS Neurons. <i>Journal of Neuroscience</i> , 1998, 18, 10445-10456.	3.6	149
3	Neuronal Expression of a Functional Receptor for the C5a Complement Activation Fragment. <i>Journal of Immunology</i> , 2001, 166, 4154-4162.	0.8	136
4	Cannabinoids Enhance NMDA-Elicited Ca <sup>2+</sup> Signals in Cerebellar Granule Neurons in Culture. <i>Journal of Neuroscience</i> , 1999, 19, 8765-8777.	3.6	108
5	Hydrogen ions have multiple effects on the excitability of cultured mammalian neurons. <i>Brain Research</i> , 1980, 183, 247-252.	2.2	96
6	Interleukin-6 produces neuronal loss in developing cerebellar granule neuron cultures. <i>Journal of Neuroimmunology</i> , 2004, 155, 43-54.	2.3	95
7	Corticotropin-releasing factor suppresses the afterhyperpolarization in cerebellar Purkinje neurons. <i>Neuroscience Letters</i> , 1993, 149, 103-107.	2.1	84
8	Inhibition of Astrocyte Glutamate Uptake by Reactive Oxygen Species: Role of Antioxidant Enzymes. <i>Molecular Medicine</i> , 1997, 3, 431-440.	4.4	81
9	The chemokine CXCL10 modulates excitatory activity and intracellular calcium signaling in cultured hippocampal neurons. <i>Journal of Neuroimmunology</i> , 2004, 156, 74-87.	2.3	81
10	Chronic intermittent ethanol exposure enhances NMDA-receptor-mediated synaptic responses and NMDA receptor expression in hippocampal CA1 region. <i>Brain Research</i> , 2005, 1048, 69-79.	2.2	68
11	L-Type Calcium Channels Mediate Calcium Oscillations in Early Postnatal Purkinje Neurons. <i>Journal of Neuroscience</i> , 2000, 20, 7394-7403.	3.6	64
12	Dehydroepiandrosterone sulfate alters synaptic potentials in area CA1 of the hippocampal slice. <i>Brain Research</i> , 1994, 633, 253-261.	2.2	61
13	Metabotropic Glutamate Receptor Agonists Alter Neuronal Excitability and Ca <sup>2+</sup> Levels via the Phospholipase C Transduction Pathway in Cultured Purkinje Neurons. <i>Journal of Neurophysiology</i> , 1997, 78, 63-75.	1.8	58
14	Opioid Enhancement of Calcium Oscillations and Burst Events Involving NMDA Receptors and L-Type Calcium Channels in Cultured Hippocampal Neurons. <i>Journal of Neuroscience</i> , 1999, 19, 9705-9715.	3.6	58
15	Steroid pregnenolone sulfate enhances NMDA-receptor-independent long-term potentiation at hippocampal CA1 synapses: Role for L-type calcium channels and sigma-receptors. <i>Hippocampus</i> , 2007, 17, 349-369.	1.9	56
16	Chronic interleukin-6 alters the level of synaptic proteins in hippocampus in culture and in vivo. <i>European Journal of Neuroscience</i> , 2007, 25, 3605-3616.	2.6	55
17	Chronic Interleukin-6 Exposure Alters Electrophysiological Properties and Calcium Signaling in Developing Cerebellar Purkinje Neurons in Culture. <i>Journal of Neurophysiology</i> , 2002, 88, 475-486.	1.8	47
18	Chronic CXCL10 alters neuronal properties in rat hippocampal culture. <i>Journal of Neuroimmunology</i> , 2009, 207, 92-100.	2.3	46

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19	Chronic interleukin-6 exposure alters metabotropic glutamate receptor-activated calcium signalling in cerebellar Purkinje neurons. <i>European Journal of Neuroscience</i> , 2004, 20, 2387-2400.	2.6	43
20	Altered hippocampal synaptic transmission in transgenic mice with astrocyte-targeted enhanced CCL2 expression. <i>Brain, Behavior, and Immunity</i> , 2011, 25, S106-S119.	4.1	39
21	Increased IL-6 expression in astrocytes is associated with emotionality, alterations in central amygdala GABAergic transmission, and excitability during alcohol withdrawal. <i>Brain, Behavior, and Immunity</i> , 2019, 82, 188-202.	4.1	38
22	Cerebellar granule neurons develop elevated calcium responses when treated with interleukin-6 in culture. <i>Brain Research</i> , 1995, 673, 141-148.	2.2	35
23	Purkinje neuron physiology is altered by the inflammatory factor interleukin-6. <i>Cerebellum</i> , 2005, 4, 198-205.	2.5	35
24	Cytokine stimulation increases intracellular calcium and alters the response to quisqualate in cultured cortical astrocytes. <i>Brain Research</i> , 1993, 621, 233-241.	2.2	33
25	Synaptic plasticity in the hippocampus shows resistance to acute ethanol exposure in transgenic mice with astrocyte-targeted enhanced CCL2 expression. <i>Neuropharmacology</i> , 2013, 67, 115-125.	4.1	32
26	Chronic ethanol exposure enhances AMPA-elicited Ca <sup>2+</sup> signals in the somatic and dendritic regions of cerebellar Purkinje neurons. <i>Neurochemistry International</i> , 1999, 35, 163-174.	3.8	30
27	Chronic Ethanol Treatment and Withdrawal Alter ACPD-Evoked Calcium Signals in Developing Purkinje Neurons. <i>Alcoholism: Clinical and Experimental Research</i> , 2002, 26, 386-393.	2.4	30
28	The chemokine CCL2 activates p38 mitogen-activated protein kinase pathway in cultured rat hippocampal cells. <i>Journal of Neuroimmunology</i> , 2008, 199, 94-103.	2.3	30
29	Development of spontaneous and glutamate-evoked activity is altered by chronic ethanol in cultured cerebellar Purkinje neurons. <i>Brain Research</i> , 1987, 420, 205-219.	2.2	29
30	Emergence of NMDA-independent long-term potentiation at hippocampal CA1 synapses following early adolescent exposure to chronic intermittent ethanol: Role for sigma receptors. <i>Hippocampus</i> , 2008, 18, 148-168.	1.9	29
31	Increased astrocyte expression of IL-6 or CCL2 in transgenic mice alters levels of hippocampal and cerebellar proteins. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 234.	3.7	26
32	Impact of Increased Astrocyte Expression of IL-6, CCL2 or CXCL10 in Transgenic Mice on Hippocampal Synaptic Function. <i>Brain Sciences</i> , 2016, 6, 19.	2.3	26
33	Peptides: Pharmacological evidence for three forms of chemical excitability in cultured mouse spinal neurons. <i>Neuropeptides</i> , 1980, 1, 63-82.	2.2	25
34	Neonatal alcohol exposure reduces NMDA induced Ca <sup>2+</sup> signaling in developing cerebellar granule neurons. <i>Brain Research</i> , 1998, 793, 12-20.	2.2	23
35	Transgenic mice with increased astrocyte expression of IL-6 show altered effects of acute ethanol on synaptic function. <i>Neuropharmacology</i> , 2016, 103, 27-43.	4.1	23
36	Modulatory effects of acute ethanol on metabotropic glutamate responses in cultured Purkinje neurons. <i>Brain Research</i> , 1995, 688, 105-113.	2.2	21

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37	Explant cultures of adult amphibian sympathetic ganglia: Electrophysiological and pharmacological investigation of neurotransmitter and nucleotide action. <i>Brain Research</i> , 1981, 223, 81-105.	2.2	17
38	Chronic CXCL10 alters the level of activated ERK1/2 and transcriptional factors CREB and NF- $\kappa$ B in hippocampal neuronal cell culture. <i>Journal of Neuroimmunology</i> , 2008, 195, 36-46.	2.3	17
39	Altered brain activity during withdrawal from chronic alcohol is associated with changes in IL-6 signal transduction and GABAergic mechanisms in transgenic mice with increased astrocyte expression of IL-6. <i>Neuropharmacology</i> , 2018, 138, 32-46.	4.1	17
40	Calcium dynamics are altered in cortical neurons lacking the calmodulin-binding protein RC3. <i>European Journal of Neuroscience</i> , 2003, 18, 13-22.	2.6	16
41	Chronic ethanol treatment and withdrawal alter ACPD-evoked calcium signals in developing Purkinje neurons. <i>Alcoholism: Clinical and Experimental Research</i> , 2002, 26, 386-93.	2.4	15
42	Contribution of L-type channels to Ca <sup>2+</sup> regulation of neuronal properties in early developing Purkinje neurons. <i>Cerebellum</i> , 2005, 4, 128-139.	2.5	13
43	Somatic Ca <sup>2+</sup> signaling in cerebellar Purkinje neurons. <i>Journal of Neuroscience Research</i> , 2010, 88, 275-289.	2.9	13
44	Neuroadaptive changes in cerebellar neurons induced by chronic exposure to IL-6. <i>Journal of Neuroimmunology</i> , 2011, 239, 28-36.	2.3	13
45	Ca <sup>2+</sup> Signaling in Cerebellar Purkinje Neurons” Editorial. <i>Cerebellum</i> , 2012, 11, 605-608.	2.5	13
46	Transgenic mice with increased astrocyte expression of CCL2 show altered behavioral effects of alcohol. <i>Neuroscience</i> , 2017, 354, 88-100.	2.3	13
47	Chronic ethanol treatment alters AMPA-induced calcium signals in developing Purkinje neurons. <i>Brain Research</i> , 1999, 826, 270-280.	2.2	11
48	Alcohol alters IL-6 Signal Transduction in the CNS of Transgenic Mice with Increased Astrocyte Expression of IL-6. <i>Cellular and Molecular Neurobiology</i> , 2021, 41, 733-750.	3.3	11
49	Neuroimmune Regulation of Neurophysiology in the Cerebellum. <i>Cerebellum</i> , 2013, 12, 307-309.	2.5	10
50	mGluR1 agonists elicit a Ca <sup>2+</sup> signal and membrane hyperpolarization mediated by apamin-sensitive potassium channels in immature rat purkinje neurons. <i>Journal of Neuroscience Research</i> , 2008, 86, 293-305.	2.9	9
51	Ethanol Alters Opioid Regulation of Ca <sup>2+</sup> Influx Through L-type Ca <sup>2+</sup> Channels in PC12 Cells. <i>Alcoholism: Clinical and Experimental Research</i> , 2012, 36, 443-456.	2.4	6
52	CCL2-ethanol interactions and hippocampal synaptic protein expression in a transgenic mouse model. <i>Frontiers in Integrative Neuroscience</i> , 2014, 8, 29.	2.1	6
53	Altered hippocampal synaptic function in transgenic mice with increased astrocyte expression of CCL2 after withdrawal from chronic alcohol. <i>Neuropharmacology</i> , 2018, 135, 113-125.	4.1	6
54	Ionotropic and metabotropic components of electrophysiological response of cerebellar Purkinje neurons to excitatory amino acids. <i>Brain Research</i> , 1993, 631, 59-64.	2.2	5

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55	Alcohol Enhances Responses to High Frequency Stimulation in Hippocampus from Transgenic Mice with Increased Astrocyte Expression of IL-6. <i>Cellular and Molecular Neurobiology</i> , 2021, 41, 1299-1310.	3.3	5
56	Alcohol and IL-6 Alter Expression of Synaptic Proteins in Cerebellum of Transgenic Mice with Increased Astrocyte Expression of IL-6. <i>Neuroscience</i> , 2020, 442, 124-137.	2.3	5
57	Rapamycin-Sensitive Late-LTP is Enhanced in the Hippocampus of IL-6 Transgenic Mice. <i>Neuroscience</i> , 2017, 367, 200-210.	2.3	4
58	L-type Ca <sup>2+</sup> channels contribute to current-evoked spike firing and associated Ca <sup>2+</sup> signals in cerebellar Purkinje neurons. <i>Cerebellum</i> , 2006, 5, 146-154.	2.5	3
59	Advances in Neuroimmunology. <i>Brain Sciences</i> , 2017, 7, 124.	2.3	3
60	Cannabinoids Alter Neurotoxicity Produced by Interleukin-6 in Central Nervous System Neurons. <i>Advances in Experimental Medicine and Biology</i> , 1998, 437, 231-240.	1.6	3
61	Developmental changes in Ca <sup>2+</sup> -regulated functions of early postnatal Purkinje neurons. <i>Journal of Neuroscience Research</i> , 2006, 83, 1381-1392.	2.9	2
62	Alcohol-Chemokine Interaction and Neurotransmission. , 2013, , 387-424.		2
63	Chronic Ethanol Treatment and Withdrawal Alter ACPD-Evoked Calcium Signals in Developing Purkinje Neurons. <i>Alcoholism: Clinical and Experimental Research</i> , 2002, 26, 386-393.	2.4	1
64	Neuroimmune actions in the brain and interactions with the effects of alcohol. <i>Neural Regeneration Research</i> , 2021, 16, 1791.	3.0	0