

Catherine S Woolley

List of Publications by Year in descending order

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76
papers

15,604
citations

31976

53
h-index

74163

75
g-index

80
all docs

80
docs citations

80
times ranked

8235
citing authors

#	ARTICLE	IF	CITATIONS
1	Latent sex differences in molecular signaling that underlies excitatory synaptic potentiation in the hippocampus. <i>Journal of Neuroscience</i> , 2019, 39, 1897-18.	3.6	61
2	Incorporating sex as a biological variable in neuroscience: what do we gain?. <i>Nature Reviews Neuroscience</i> , 2017, 18, 707-708.	10.2	52
3	17 β -Estradiol Acutely Potentiates Glutamatergic Synaptic Transmission in the Hippocampus through Distinct Mechanisms in Males and Females. <i>Journal of Neuroscience</i> , 2016, 36, 2677-2690.	3.6	180
4	Considering Sex as a Biological Variable Will Be Valuable for Neuroscience Research. <i>Journal of Neuroscience</i> , 2016, 36, 11817-11822.	3.6	157
5	Measurement of Inositol Triphosphate Levels from Rat Hippocampal Slices. <i>Bio-protocol</i> , 2016, 6, .	0.4	5
6	Sex differences in cerebellar synaptic transmission and sex-specific responses to autism-linked <i>Gabrb3</i> mutations in mice. <i>eLife</i> , 2016, 5, .	6.0	38
7	Acute inhibition of neurosteroid estrogen synthesis suppresses status epilepticus in an animal model. <i>eLife</i> , 2016, 5, .	6.0	55
8	Sex Differences in Molecular Signaling at Inhibitory Synapses in the Hippocampus. <i>Journal of Neuroscience</i> , 2015, 35, 11252-11265.	3.6	149
9	Quantitative Analysis of Long-Form Aromatase mRNA in the Male and Female Rat Brain. <i>PLoS ONE</i> , 2014, 9, e100628.	2.5	58
10	Commentary: "Learning in" to Support Sex Differences in Basic Science and Clinical Research. <i>Endocrinology</i> , 2014, 155, 1181-1183.	2.8	25
11	Estradiol regulates large dense core vesicles in the hippocampus of adult female rats. <i>Brain Structure and Function</i> , 2014, 219, 1947-1954.	2.3	7
12	Distribution and Posttranslational Modification of Synaptic ER α in the Adult Female Rat Hippocampus. <i>Endocrinology</i> , 2013, 154, 819-830.	2.8	42
13	Estradiol Acutely Suppresses Inhibition in the Hippocampus through a Sex-Specific Endocannabinoid and mGluR-Dependent Mechanism. <i>Neuron</i> , 2012, 74, 801-808.	8.1	258
14	Ultrastructural analysis of sex differences in nucleus accumbens synaptic connectivity. <i>Brain Structure and Function</i> , 2012, 217, 181-190.	2.3	58
15	Sex differences and effects of cocaine on excitatory synapses in the nucleus accumbens. <i>Neuropharmacology</i> , 2011, 61, 217-227.	4.1	85
16	Quantitative Mapping of Cocaine-Induced β -FosB Expression in the Striatum of Male and Female Rats. <i>PLoS ONE</i> , 2011, 6, e21783.	2.5	15
17	Estradiol potentiation of NR2B-dependent EPSCs is not due to changes in NR2B protein expression or phosphorylation. <i>Hippocampus</i> , 2011, 21, 398-408.	1.9	45
18	Quantitative analysis of pre- and postsynaptic sex differences in the nucleus accumbens. <i>Journal of Comparative Neurology</i> , 2010, 518, 1330-1348.	1.6	96

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19	Multiple ER β antisera label in ER β knockout and null mouse tissues. <i>Journal of Neuroscience Methods</i> , 2010, 188, 226-234.	2.5	81
20	Estradiol Acutely Potentiates Hippocampal Excitatory Synaptic Transmission through a Presynaptic Mechanism. <i>Journal of Neuroscience</i> , 2010, 30, 16137-16148.	3.6	153
21	Estradiol Facilitates the Release of Neuropeptide Y to Suppress Hippocampus-Dependent Seizures. <i>Journal of Neuroscience</i> , 2009, 29, 1457-1468.	3.6	75
22	Effects of prepubertal gonadectomy on a male atypical behavior and excitatory synaptic transmission in the amygdala. <i>Developmental Neurobiology</i> , 2009, 69, 141-152.	3.0	51
23	Effects of Oestradiol on Hippocampal Circuitry. <i>Novartis Foundation Symposium</i> , 2008, 230, 173-187.	1.1	37
24	Acute Effects of Estrogen on Neuronal Physiology. <i>Annual Review of Pharmacology and Toxicology</i> , 2007, 47, 657-680.	9.4	371
25	Estrogen Mobilizes a Subset of Estrogen Receptor- β Immunoreactive Vesicles in Inhibitory Presynaptic Boutons in Hippocampal CA1. <i>Journal of Neuroscience</i> , 2007, 27, 2102-2111.	3.6	94
26	Estradiol enhances long term potentiation in hippocampal slices from aged apoE4 β TR mice. <i>Hippocampus</i> , 2007, 17, 1153-1157.	1.9	24
27	Morphological sex differences and laterality in the prepubertal medial amygdala. <i>Journal of Comparative Neurology</i> , 2007, 501, 904-915.	1.6	91
28	Structural plasticity of dendrites. , 2007, , 499-530.		5
29	Gonadal hormone modulation of dendrites in the mammalian CNS. <i>Journal of Neurobiology</i> , 2005, 64, 34-46.	3.6	225
30	Evidence That Disinhibition Is Associated with a Decrease in Number of Vesicles Available for Release at Inhibitory Synapses. <i>Journal of Neuroscience</i> , 2005, 25, 971-976.	3.6	36
31	Sexually Dimorphic Synaptic Organization of the Medial Amygdala. <i>Journal of Neuroscience</i> , 2005, 25, 10759-10767.	3.6	167
32	Maintenance of High-Frequency Transmission at Purkinje to Cerebellar Nuclear Synapses by Spillover from Boutons with Multiple Release Sites. <i>Neuron</i> , 2004, 41, 113-126.	8.1	99
33	Cellular and molecular effects of steroid hormones on CNS excitability.. <i>Cleveland Clinic Journal of Medicine</i> , 2004, 71, S4-S4.	1.3	86
34	Selective Estrogen Receptor Modulators Regulate Phasic Activation of Hippocampal CA1 Pyramidal Cells by Estrogen. <i>Endocrinology</i> , 2003, 144, 179-187.	2.8	58
35	A Role for the Basal Forebrain Cholinergic System in Estrogen-Induced Disinhibition of Hippocampal Pyramidal Cells. <i>Journal of Neuroscience</i> , 2003, 23, 4479-4490.	3.6	110
36	Sex Steroids and Neuronal Growth in Adulthood. , 2002, , 717-XXXIII.		20

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37	Estrogen Regulates Functional Inhibition of Hippocampal CA1 Pyramidal Cells in the Adult Female Rat. <i>Journal of Neuroscience</i> , 2001, 21, 6532-6543.	3.6	217
38	Quantitative analysis of ER α and GAD colocalization in the hippocampus of the adult female rat. <i>Journal of Comparative Neurology</i> , 2001, 440, 144-155.	1.6	98
39	Estrogen increases synaptic connectivity between single presynaptic inputs and multiple postsynaptic CA1 pyramidal cells: A serial electron-microscopic study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 3525-3530.	7.1	216
40	Kainic acid-induced mossy fiber sprouting and synapse formation in the dentate gyrus of rats. <i>Hippocampus</i> , 2000, 10, 244-260.	1.9	106
41	Estradiol induces a phasic Fos response in the hippocampal CA1 and CA3 regions of adult female rats. <i>Hippocampus</i> , 2000, 10, 274-283.	1.9	40
42	Estradiol Facilitates Kainic Acid-Induced, but not Flurothyl-Induced, Behavioral Seizure Activity in Adult Female Rats. <i>Epilepsia</i> , 2000, 41, 510-515.	5.1	96
43	Effects of estrogen in the CNS. <i>Current Opinion in Neurobiology</i> , 1999, 9, 349-354.	4.2	182
44	Electrophysiological and Cellular Effects of Estrogen on Neuronal Function. <i>Critical Reviews in Neurobiology</i> , 1999, 13, 1-20.	3.1	90
45	Hormonal Effects on the Brain. <i>Epilepsia</i> , 1998, 39, S2-S8.	5.1	113
46	Estrogen-Mediated Structural and Functional Synaptic Plasticity in the Female Rat Hippocampus. <i>Hormones and Behavior</i> , 1998, 34, 140-148.	2.1	349
47	Estradiol Increases the Sensitivity of Hippocampal CA1 Pyramidal Cells to NMDA Receptor-Mediated Synaptic Input: Correlation with Dendritic Spine Density. <i>Journal of Neuroscience</i> , 1997, 17, 1848-1859.	3.6	635
48	Estradiol increases the frequency of multiple synapse boutons in the hippocampal CA1 region of the adult female rat. <i>Journal of Comparative Neurology</i> , 1996, 373, 108-117.	1.6	204
49	Oestrogens and the Structural and Functional Plasticity of Neurons: Implications for Memory, Ageing and Neurodegenerative Processes. <i>Novartis Foundation Symposium</i> , 1995, 191, 52-73.	1.1	54
50	Estradiol regulates hippocampal dendritic spine density via an N-methyl- D-aspartate receptor-dependent mechanism. <i>Journal of Neuroscience</i> , 1994, 14, 7680-7687.	3.6	651
51	Estradiol and progesterone regulate neuronal structure and synaptic connectivity in adult as well as developing brain. <i>Experimental Gerontology</i> , 1994, 29, 431-436.	2.8	283
52	Chapter 19 Resolving a mystery: progress in understanding the function of adrenal steroid receptors in hippocampus. <i>Progress in Brain Research</i> , 1994, 100, 149-155.	1.4	15
53	Steroid Action on Neuronal Structure. <i>Methods in Neurosciences</i> , 1994, 22, 383-402.	0.5	5
54	Hormonal regulation of adult hippocampal dendritic spine density. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , 1994, 52, 30-31.	0.0	0

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55	Roles of estradiol and progesterone in regulation of hippocampal dendritic spine density during the estrous cycle in the rat. <i>Journal of Comparative Neurology</i> , 1993, 336, 293-306.	1.6	989
56	Adrenal steroids and plasticity of hippocampal neurons: Toward an understanding of underlying cellular and molecular mechanisms. <i>Cellular and Molecular Neurobiology</i> , 1993, 13, 457-482.	3.3	74
57	Adrenal steroid receptor immunoreactivity in cells born in the adult rat dentate gyrus. <i>Brain Research</i> , 1993, 611, 342-346.	2.2	118
58	Differentiation of newly born neurons and glia in the dentate gyrus of the adult rat. <i>Neuroscience</i> , 1993, 56, 337-344.	2.3	1,096
59	Paradoxical effects of adrenal steroids on the brain: Protection versus degeneration. <i>Biological Psychiatry</i> , 1992, 31, 177-199.	1.3	210
60	Estradiol mediates fluctuation in hippocampal synapse density during the estrous cycle in the adult rat [published erratum appears in <i>J Neurosci</i> 1992 Oct;12(10):following table of contents]. <i>Journal of Neuroscience</i> , 1992, 12, 2549-2554.	3.6	1,178
61	Adrenal hormones suppress cell division in the adult rat dentate gyrus. <i>Journal of Neuroscience</i> , 1992, 12, 3642-3650.	3.6	563
62	Steroid hormones as mediators of neural plasticity. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1991, 39, 223-232.	2.5	130
63	Steroid and thyroid hormones modulate a changing brain. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1991, 40, 1-14.	2.5	39
64	Effects of aldosterone or RU28362 treatment on adrenalectomy-induced cell death in the dentate gyrus of the adult rat. <i>Brain Research</i> , 1991, 554, 312-315.	2.2	193
65	The hippocampal formation: Morphological changes induced by thyroid, gonadal and adrenal hormones. <i>Psychoneuroendocrinology</i> , 1991, 16, 67-84.	2.7	152
66	Naturally occurring cell death in the developing dentate gyrus of the rat. <i>Journal of Comparative Neurology</i> , 1991, 304, 408-418.	1.6	106
67	Adrenal steroids regulate postnatal development of the rat dentate gyrus: I. Effects of glucocorticoids on cell death. <i>Journal of Comparative Neurology</i> , 1991, 313, 479-485.	1.6	204
68	Adrenal steroids regulate postnatal development of the rat dentate gyrus: II. Effects of glucocorticoids and mineralocorticoids on cell birth. <i>Journal of Comparative Neurology</i> , 1991, 313, 486-493.	1.6	179
69	Gonadal steroids regulate dendritic spine density in hippocampal pyramidal cells in adulthood. <i>Journal of Neuroscience</i> , 1990, 10, 1286-1291.	3.6	1,254
70	Effect of Chronic Typical and Atypical Neuroleptic Treatment on Proenkephalin mRNA Levels in the Striatum and Nucleus Accumbens of the Rat. <i>Journal of Neurochemistry</i> , 1990, 54, 1889-1894.	3.9	71
71	Gonadal Steroids Modify Dendritic Spine Density in Ventromedial Hypothalamic Neurons: A Golgi Study in the Adult Rat. <i>Neuroendocrinology</i> , 1990, 51, 530-535.	2.5	239
72	Short-term glucocorticoid manipulations affect neuronal morphology and survival in the adult dentate gyrus. <i>Neuroscience</i> , 1990, 37, 367-375.	2.3	324

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73	Exposure to excess glucocorticoids alters dendritic morphology of adult hippocampal pyramidal neurons. <i>Brain Research</i> , 1990, 531, 225-231.	2.2	946
74	The Hippocampus: A Site for Modulatory Interactions Between Steroid Hormones, Neurotransmitters and Neuropeptides. <i>Neuroendocrine Perspectives</i> , 1990, , 93-131.	0.6	22
75	Naturally occurring fluctuation in dendritic spine density on adult hippocampal pyramidal neurons. <i>Journal of Neuroscience</i> , 1990, 10, 4035-4039.	3.6	971
76	Deoxycytidylate hydroxymethylase: purification, properties, and the role of a thiol group in catalysis. <i>Biochemistry</i> , 1988, 27, 1367-1373.	2.5	10