

# Catherine S Woolley

## List of Publications by Year in descending order

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76  
papers

15,604  
citations

31949

53  
h-index

74108

75  
g-index

80  
all docs

80  
docs citations

80  
times ranked

8235  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gonadal steroids regulate dendritic spine density in hippocampal pyramidal cells in adulthood. <i>Journal of Neuroscience</i> , 1990, 10, 1286-1291.	1.7	1,254
2	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.	1.7	1,178
3	Differentiation of newly born neurons and glia in the dentate gyrus of the adult rat. <i>Neuroscience</i> , 1993, 56, 337-344.	1.1	1,096
4	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.	0.9	989
5	Naturally occurring fluctuation in dendritic spine density on adult hippocampal pyramidal neurons. <i>Journal of Neuroscience</i> , 1990, 10, 4035-4039.	1.7	971
6	Exposure to excess glucocorticoids alters dendritic morphology of adult hippocampal pyramidal neurons. <i>Brain Research</i> , 1990, 531, 225-231.	1.1	946
7	Estradiol regulates hippocampal dendritic spine density via an N-methyl- D-aspartate receptor-dependent mechanism. <i>Journal of Neuroscience</i> , 1994, 14, 7680-7687.	1.7	651
8	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.	1.7	635
9	Adrenal hormones suppress cell division in the adult rat dentate gyrus. <i>Journal of Neuroscience</i> , 1992, 12, 3642-3650.	1.7	563
10	Acute Effects of Estrogen on Neuronal Physiology. <i>Annual Review of Pharmacology and Toxicology</i> , 2007, 47, 657-680.	4.2	371
11	Estrogen-Mediated Structural and Functional Synaptic Plasticity in the Female Rat Hippocampus. <i>Hormones and Behavior</i> , 1998, 34, 140-148.	1.0	349
12	Short-term glucocorticoid manipulations affect neuronal morphology and survival in the adult dentate gyrus. <i>Neuroscience</i> , 1990, 37, 367-375.	1.1	324
13	Estradiol and progesterone regulate neuronal structure and synaptic connectivity in adult as well as developing brain. <i>Experimental Gerontology</i> , 1994, 29, 431-436.	1.2	283
14	Estradiol Acutely Suppresses Inhibition in the Hippocampus through a Sex-Specific Endocannabinoid and mGluR-Dependent Mechanism. <i>Neuron</i> , 2012, 74, 801-808.	3.8	258
15	Gonadal Steroids Modify Dendritic Spine Density in Ventromedial Hypothalamic Neurons: A Golgi Study in the Adult Rat. <i>Neuroendocrinology</i> , 1990, 51, 530-535.	1.2	239
16	Gonadal hormone modulation of dendrites in the mammalian CNS. <i>Journal of Neurobiology</i> , 2005, 64, 34-46.	3.7	225
17	Estrogen Regulates Functional Inhibition of Hippocampal CA1 Pyramidal Cells in the Adult Female Rat. <i>Journal of Neuroscience</i> , 2001, 21, 6532-6543.	1.7	217
18	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.	3.3	216

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19	Paradoxical effects of adrenal steroids on the brain: Protection versus degeneration. <i>Biological Psychiatry</i> , 1992, 31, 177-199.	0.7	210
20	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.	0.9	204
21	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.	0.9	204
22	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.	1.1	193
23	Effects of estrogen in the CNS. <i>Current Opinion in Neurobiology</i> , 1999, 9, 349-354.	2.0	182
24	17 $\beta$ -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.	1.7	180
25	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.	0.9	179
26	Sexually Dimorphic Synaptic Organization of the Medial Amygdala. <i>Journal of Neuroscience</i> , 2005, 25, 10759-10767.	1.7	167
27	Considering Sex as a Biological Variable Will Be Valuable for Neuroscience Research. <i>Journal of Neuroscience</i> , 2016, 36, 11817-11822.	1.7	157
28	Estradiol Acutely Potentiates Hippocampal Excitatory Synaptic Transmission through a Presynaptic Mechanism. <i>Journal of Neuroscience</i> , 2010, 30, 16137-16148.	1.7	153
29	The hippocampal formation: Morphological changes induced by thyroid, gonadal and adrenal hormones. <i>Psychoneuroendocrinology</i> , 1991, 16, 67-84.	1.3	152
30	Sex Differences in Molecular Signaling at Inhibitory Synapses in the Hippocampus. <i>Journal of Neuroscience</i> , 2015, 35, 11252-11265.	1.7	149
31	Steroid hormones as mediators of neural plasticity. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1991, 39, 223-232.	1.2	130
32	Adrenal steroid receptor immunoreactivity in cells born in the adult rat dentate gyrus. <i>Brain Research</i> , 1993, 611, 342-346.	1.1	118
33	Hormonal Effects on the Brain. <i>Epilepsia</i> , 1998, 39, S2-S8.	2.6	113
34	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.	1.7	110
35	Naturally occurring cell death in the developing dentate gyrus of the rat. <i>Journal of Comparative Neurology</i> , 1991, 304, 408-418.	0.9	106
36	Kainic acid-induced mossy fiber sprouting and synapse formation in the dentate gyrus of rats. <i>Hippocampus</i> , 2000, 10, 244-260.	0.9	106

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37	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.	3.8	99
38	Quantitative analysis of ER $\alpha$ and GAD colocalization in the hippocampus of the adult female rat. <i>Journal of Comparative Neurology</i> , 2001, 440, 144-155.	0.9	98
39	Estradiol Facilitates Kainic Acid-Induced, but not Flurothyl-Induced, Behavioral Seizure Activity in Adult Female Rats. <i>Epilepsia</i> , 2000, 41, 510-515.	2.6	96
40	Quantitative analysis of pre- and postsynaptic sex differences in the nucleus accumbens. <i>Journal of Comparative Neurology</i> , 2010, 518, 1330-1348.	0.9	96
41	Estrogen Mobilizes a Subset of Estrogen Receptor- $\beta$ Immunoreactive Vesicles in Inhibitory Presynaptic Boutons in Hippocampal CA1. <i>Journal of Neuroscience</i> , 2007, 27, 2102-2111.	1.7	94
42	Morphological sex differences and laterality in the prepubertal medial amygdala. <i>Journal of Comparative Neurology</i> , 2007, 501, 904-915.	0.9	91
43	Electrophysiological and Cellular Effects of Estrogen on Neuronal Function. <i>Critical Reviews in Neurobiology</i> , 1999, 13, 1-20.	3.3	90
44	Cellular and molecular effects of steroid hormones on CNS excitability.. <i>Cleveland Clinic Journal of Medicine</i> , 2004, 71, S4-S4.	0.6	86
45	Sex differences and effects of cocaine on excitatory synapses in the nucleus accumbens. <i>Neuropharmacology</i> , 2011, 61, 217-227.	2.0	85
46	Multiple ER $\beta$ antisera label in ER $\beta$ knockout and null mouse tissues. <i>Journal of Neuroscience Methods</i> , 2010, 188, 226-234.	1.3	81
47	Estradiol Facilitates the Release of Neuropeptide Y to Suppress Hippocampus-Dependent Seizures. <i>Journal of Neuroscience</i> , 2009, 29, 1457-1468.	1.7	75
48	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.	1.7	74
49	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.	2.1	71
50	Latent sex differences in molecular signaling that underlies excitatory synaptic potentiation in the hippocampus. <i>Journal of Neuroscience</i> , 2019, 39, 1897-18.	1.7	61
51	Selective Estrogen Receptor Modulators Regulate Phasic Activation of Hippocampal CA1 Pyramidal Cells by Estrogen. <i>Endocrinology</i> , 2003, 144, 179-187.	1.4	58
52	Ultrastructural analysis of sex differences in nucleus accumbens synaptic connectivity. <i>Brain Structure and Function</i> , 2012, 217, 181-190.	1.2	58
53	Quantitative Analysis of Long-Form Aromatase mRNA in the Male and Female Rat Brain. <i>PLoS ONE</i> , 2014, 9, e100628.	1.1	58
54	Acute inhibition of neurosteroid estrogen synthesis suppresses status epilepticus in an animal model. <i>ELife</i> , 2016, 5, .	2.8	55

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55	Oestrogens and the Structural and Functional Plasticity of Neurons: Implications for Memory, Ageing and Neurodegenerative Processes. Novartis Foundation Symposium, 1995, 191, 52-73.	1.2	54
56	Incorporating sex as a biological variable in neuroscience: what do we gain?. Nature Reviews Neuroscience, 2017, 18, 707-708.	4.9	52
57	Effects of prepubertal gonadectomy on a male-typical behavior and excitatory synaptic transmission in the amygdala. Developmental Neurobiology, 2009, 69, 141-152.	1.5	51
58	Estradiol potentiation of NR2B-dependent EPSCs is not due to changes in NR2B protein expression or phosphorylation. Hippocampus, 2011, 21, 398-408.	0.9	45
59	Distribution and Posttranslational Modification of Synaptic ER $\alpha$ in the Adult Female Rat Hippocampus. Endocrinology, 2013, 154, 819-830.	1.4	42
60	Estradiol induces a phasic Fos response in the hippocampal CA1 and CA3 regions of adult female rats. Hippocampus, 2000, 10, 274-283.	0.9	40
61	Steroid and thyroid hormones modulate a changing brain. Journal of Steroid Biochemistry and Molecular Biology, 1991, 40, 1-14.	1.2	39
62	Sex differences in cerebellar synaptic transmission and sex-specific responses to autism-linked Gabrb3 mutations in mice. ELife, 2016, 5, .	2.8	38
63	Effects of Oestradiol on Hippocampal Circuitry. Novartis Foundation Symposium, 2008, 230, 173-187.	1.2	37
64	Evidence That Disinhibition Is Associated with a Decrease in Number of Vesicles Available for Release at Inhibitory Synapses. Journal of Neuroscience, 2005, 25, 971-976.	1.7	36
65	Commentary: "Leaning in" to Support Sex Differences in Basic Science and Clinical Research. Endocrinology, 2014, 155, 1181-1183.	1.4	25
66	Estradiol enhances long term potentiation in hippocampal slices from aged apoE4-Tg mice. Hippocampus, 2007, 17, 1153-1157.	0.9	24
67	The Hippocampus: A Site for Modulatory Interactions Between Steroid Hormones, Neurotransmitters and Neuropeptides. Neuroendocrine Perspectives, 1990, , 93-131.	0.6	22
68	Sex Steroids and Neuronal Growth in Adulthood. , 2002, , 717-XXXIII.		20
69	Chapter 19 Resolving a mystery: progress in understanding the function of adrenal steroid receptors in hippocampus. Progress in Brain Research, 1994, 100, 149-155.	0.9	15
70	Quantitative Mapping of Cocaine-Induced FosB Expression in the Striatum of Male and Female Rats. PLoS ONE, 2011, 6, e21783.	1.1	15
71	Deoxycytidylate hydroxymethylase: purification, properties, and the role of a thiol group in catalysis. Biochemistry, 1988, 27, 1367-1373.	1.2	10
72	Estradiol regulates large dense core vesicles in the hippocampus of adult female rats. Brain Structure and Function, 2014, 219, 1947-1954.	1.2	7

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73	Steroid Action on Neuronal Structure. <i>Methods in Neurosciences</i> , 1994, 22, 383-402.	0.5	5
74	Measurement of Inositol Triphosphate Levels from Rat Hippocampal Slices. <i>Bio-protocol</i> , 2016, 6, .	0.2	5
75	Structural plasticity of dendrites. , 2007, , 499-530.		5
76	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