

William F Colmers

List of Publications by Year in descending order

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65
papers

6,253
citations

101543

36
h-index

128289

60
g-index

99
all docs

99
docs citations

99
times ranked

5700
citing authors

#	ARTICLE	IF	CITATIONS
1	The Distribution and Mechanism of Action of Ghrelin in the CNS Demonstrates a Novel Hypothalamic Circuit Regulating Energy Homeostasis. <i>Neuron</i> , 2003, 37, 649-661.	8.1	1,465
2	Integration of NPY, AGRP, and Melanocortin Signals in the Hypothalamic Paraventricular Nucleus. <i>Neuron</i> , 1999, 24, 155-163.	8.1	569
3	Neuropeptide Y: emerging evidence for a functional role in seizure modulation. <i>Trends in Neurosciences</i> , 1999, 22, 25-30.	8.6	451
4	Serotonin Activates the Hypothalamic-Pituitary-Adrenal Axis via Serotonin 2C Receptor Stimulation. <i>Journal of Neuroscience</i> , 2007, 27, 6956-6964.	3.6	243
5	Effects of neuropeptide Y on the electrical properties of neurons. <i>Trends in Neurosciences</i> , 1994, 17, 373-379.	8.6	242
6	Inhibition of Synaptic Transmission by Neuropeptide Y in Rat Hippocampal Area CA1: Modulation of Presynaptic Ca ²⁺ Entry. <i>Journal of Neuroscience</i> , 1997, 17, 8169-8177.	3.6	199
7	Presynaptic inhibition by neuropeptide Y in rat hippocampal slice <i>in vitro</i> is mediated by a Y ₂ receptor. <i>British Journal of Pharmacology</i> , 1991, 102, 41-44.	5.4	174
8	Central nervous system inflammation induces muscle atrophy via activation of the hypothalamic-pituitary-adrenal axis. <i>Journal of Experimental Medicine</i> , 2011, 208, 2449-2463.	8.5	162
9	The role of NPY in hypothalamic mediated food intake. <i>Frontiers in Neuroendocrinology</i> , 2011, 32, 398-415.	5.2	155
10	Mechanism of presynaptic inhibition by neuropeptide Y at sympathetic nerve terminals. <i>Nature</i> , 1993, 364, 635-639.	27.8	153
11	Neuropeptide Y Suppresses Epileptiform Activity in Rat Hippocampus In Vitro. <i>Journal of Neurophysiology</i> , 1997, 78, 1651-1661.	1.8	153
12	On the sites of presynaptic inhibition by neuropeptide y in rat hippocampus in vitro. <i>Hippocampus</i> , 1993, 3, 103-111.	1.9	127
13	The anti-epileptic actions of neuropeptide Y in the hippocampus are mediated by Y ₂ and not Y ₅ receptors. <i>European Journal of Neuroscience</i> , 2005, 22, 1417-1430.	2.6	114
14	Neuropeptide Y in the dentate gyrus. <i>Progress in Brain Research</i> , 2007, 163, 285-297.	1.4	109
15	Changes in Mitochondrial Function Resulting from Synaptic Activity in the Rat Hippocampal Slice. <i>Journal of Neuroscience</i> , 1998, 18, 4570-4587.	3.6	107
16	Brain-derived neurotrophic factor drives the changes in excitatory synaptic transmission in the rat superficial dorsal horn that follow sciatic nerve injury. <i>Journal of Physiology</i> , 2009, 587, 1013-1032.	2.9	104
17	Countervailing Modulation of <i>h</i> by Neuropeptide Y and Corticotrophin-Releasing Factor in Basolateral Amygdala As a Possible Mechanism for Their Effects on Stress-Related Behaviors. <i>Journal of Neuroscience</i> , 2010, 30, 16970-16982.	3.6	93
18	Neuropeptide Y reduces orthodromically evoked population spike in rat hippocampal CA1 by a possibly presynaptic mechanism. <i>Brain Research</i> , 1985, 346, 404-408.	2.2	90

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19	Neuropeptide Y and Epilepsy. <i>Epilepsy Currents</i> , 2003, 3, 53-58.	0.8	86
20	Dopamine modulates synaptic plasticity in dendrites of rat and human dentate granule cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18185-18190.	7.1	81
21	Developmental Switch in Neuropeptide Y and Melanocortin Effects in the Paraventricular Nucleus of the Hypothalamus. <i>Neuron</i> , 2007, 56, 1103-1115.	8.1	71
22	Y eat?. <i>Nutrition</i> , 2008, 24, 869-877.	2.4	66
23	Neuron type-specific effects of brain-derived neurotrophic factor in rat superficial dorsal horn and their relevance to central sensitization™. <i>Journal of Physiology</i> , 2007, 584, 543-563.	2.9	65
24	Pertussis toxin pretreatment discriminates between pre- and postsynaptic actions of baclofen in rat dorsal raphe nucleus in vitro. <i>Neuroscience Letters</i> , 1988, 93, 300-306.	2.1	64
25	Investigations into neuropeptide Y-mediated presynaptic inhibition in cultured hippocampal neurones of the rat. <i>British Journal of Pharmacology</i> , 1992, 107, 334-340.	5.4	63
26	4-Aminopyridine and low Ca ²⁺ differentiate presynaptic inhibition mediated by neuropeptide Y, baclofen and 2-chloroadenosine in rat hippocampal CA1 <i>in vitro</i> . <i>British Journal of Pharmacology</i> , 1992, 105, 470-474.	5.4	61
27	Neuropeptide Y Suppresses Anorexigenic Output from the Ventromedial Nucleus of the Hypothalamus. <i>Journal of Neuroscience</i> , 2010, 30, 3380-3390.	3.6	61
28	Magel2 Is Required for Leptin-Mediated Depolarization of POMC Neurons in the Hypothalamic Arcuate Nucleus in Mice. <i>PLoS Genetics</i> , 2013, 9, e1003207.	3.5	60
29	PYY3-36 inhibits the action potential firing activity of POMC neurons of arcuate nucleus through postsynaptic Y2 receptors. <i>Cell Metabolism</i> , 2005, 2, 191-199.	16.2	59
30	Opioid-Like Actions of Neuropeptide Y in Rat Substantia Gelatinosa: Y1 Suppression of Inhibition and Y2 Suppression of Excitation. <i>Journal of Neurophysiology</i> , 2004, 92, 3266-3275.	1.8	58
31	Multiple NPY Receptors Inhibit GABA _A Synaptic Responses of Rat Medial Parvocellular Effector Neurons in the Hypothalamic Paraventricular Nucleus. <i>Endocrinology</i> , 2002, 143, 535-543.	2.8	55
32	Neuropeptide Y5 Receptors Reduce Synaptic Excitation in Proximal Subiculum, But Not Epileptiform Activity in Rat Hippocampal Slices. <i>Journal of Neurophysiology</i> , 2000, 83, 723-734.	1.8	49
33	Pediatric epilepsy surgery at the University of Alberta: 1988-2000. <i>Pediatric Neurology</i> , 2003, 29, 302-311.	2.1	49
34	Extratemporal resection for childhood epilepsy. <i>Pediatric Neurology</i> , 2004, 30, 177-185.	2.1	49
35	Blockade of neuropeptide Y ₂ receptors and suppression of NPY's anti-epileptic actions in the rat hippocampal slice by BIIE0246. <i>British Journal of Pharmacology</i> , 2002, 136, 502-509.	5.4	47
36	Glucosensing in parvocellular neurons of the rat hypothalamic paraventricular nucleus. <i>European Journal of Neuroscience</i> , 2011, 34, 272-282.	2.6	42

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37	Substantia Gelatinosa neurons in defined-medium organotypic slice culture are similar to those in acute slices from young adult rats. <i>Pain</i> , 2006, 121, 261-275.	4.2	38
38	Progressive postnatal decline in leptin sensitivity of arcuate hypothalamic neurons in the <i>Magel2</i> -null mouse model of Prader-Willi syndrome. <i>Human Molecular Genetics</i> , 2015, 24, 4276-4283.	2.9	37
39	Modulation of Synaptic Transmission in Hippocampus by Neuropeptide Y: Presynaptic Actions. <i>Annals of the New York Academy of Sciences</i> , 1990, 611, 206-218.	3.8	33
40	The Third Intracellular Loop Stabilizes the Inactive State of the Neuropeptide Y1 Receptor. <i>Journal of Biological Chemistry</i> , 2008, 283, 33337-33346.	3.4	32
41	Nociceptin/orphanin FQ suppresses the excitability of neurons in the ventromedial nucleus of the hypothalamus. <i>Journal of Physiology</i> , 2011, 589, 3103-3114.	2.9	29
42	ATP-Inhibition of M Current in Frog Sympathetic Neurons Involves Phospholipase C But Not Ins P3, Ca ²⁺ , PKC, or Ras. <i>Journal of Neurophysiology</i> , 2002, 88, 277-288.	1.8	26
43	<i>Magel2</i> -null mice are hyperresponsive to setmelanotide, a melanocortin 4 receptor agonist. <i>British Journal of Pharmacology</i> , 2016, 173, 2614-2621.	5.4	26
44	The G-protein biased partial μ opioid receptor agonist Δ^9 -GNTI blocks hippocampal paroxysmal discharges without inducing aversion. <i>British Journal of Pharmacology</i> , 2016, 173, 1756-1767.	5.4	26
45	NPY Induces Stress Resilience via Downregulation of <i>h</i> in Principal Neurons of Rat Basolateral Amygdala. <i>Journal of Neuroscience</i> , 2018, 38, 4505-4520.	3.6	26
46	Afferent synaptic connections between hair cells and the somata of intramacular neurons in the gravity receptor system of the statocyst of octopus vulgaris. <i>Journal of Comparative Neurology</i> , 1981, 197, 385-394.	1.6	23
47	?Spinner? cephalopods: defects of statocyst suprastructures in an invertebrate analogue of the vestibular apparatus. <i>Cell and Tissue Research</i> , 1984, 236, 505-15.	2.9	22
48	NPY ₂ Receptors Reduce Tonic Action Potential-Independent GABA _B Currents in the Basolateral Amygdala. <i>Journal of Neuroscience</i> , 2019, 39, 4909-4930.	3.6	17
49	Less fat with nesfatin. <i>Trends in Endocrinology and Metabolism</i> , 2007, 18, 131-132.	7.1	16
50	Long-term actions of BDNF on inhibitory synaptic transmission in identified neurons of the rat substantia gelatinosa. <i>Journal of Neurophysiology</i> , 2012, 108, 441-452.	1.8	16
51	Convergent neuronal projections from paraventricular nucleus, parabrachial nucleus, and brainstem onto gastrocnemius muscle, white and brown adipose tissue in male rats. <i>Journal of Comparative Neurology</i> , 2019, 527, 2826-2842.	1.6	14
52	Defined Medium Organotypic Cultures of Spinal Cord Put â€Pain in a Dishâ€™. <i>Neuromethods</i> , 2012, , 405-436.	0.3	12
53	Modulation of Distal Calcium Electrogenesis by Neuropeptide Y1 Receptors Inhibits Neocortical Long-Term Depression. <i>Journal of Neuroscience</i> , 2013, 33, 11184-11193.	3.6	10
54	Contribution of NPY Y ₅ Receptors to the Reversible Structural Remodeling of Basolateral Amygdala Dendrites in Male Rats Associated with NPY-Mediated Stress Resilience. <i>Journal of Neuroscience</i> , 2020, 40, 3231-3249.	3.6	9

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55	Defense of Elevated Body Weight Setpoint in Diet-Induced Obese Rats on Low Energy Diet Is Mediated by Loss of Melanocortin Sensitivity in the Paraventricular Hypothalamic Nucleus. PLoS ONE, 2015, 10, e0139462.	2.5	9
56	NPY presynaptic actions are reduced in the hypothalamic mpPVN of obese (fa/fa), but not lean, Zucker rats in vitro. British Journal of Pharmacology, 2004, 141, 1032-1036.	5.4	8
57	Leptin signaling defects in a mouse model of Prader-Willi syndrome. Rare Diseases (Austin, Tex), 2013, 1, e24421.	1.8	8
58	Neuropeptide Y and gamma-melanocyte stimulating hormone (γ -MSH) share a common pressor mechanism of action. Endocrine, 2009, 35, 312-324.	2.3	6
59	Integration of energy homeostasis and stress by parvocellular neurons in rat hypothalamic paraventricular nucleus. Journal of Physiology, 2020, 598, 1073-1092.	2.9	6
60	Actions of Neuropeptide Y on the Electrophysiological Properties of Nerve Cells. , 1993, , 241-272.		4
61	Longâ€Lived Organotypic Slice Culture Model of the Rat Basolateral Amygdala. Current Protocols, 2021, 1, e267.	2.9	3
62	What Makes People Fat? View from the Chair. Obesity, 2006, 14, 190S-191S.	3.0	0
63	Absolute Threshold. , 2008, , 3-3.		0
64	The Skinny on Adiponectin. Endocrinology, 2009, 150, 559-560.	2.8	0
65	Presynaptic Inhibition Mediated by Neuropeptide Y in the Mammalian CNS: Possible Physiological Implications. , 1993, , 87-103.		0