

Ann K Goodchild

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107
papers

3,290
citations

32
h-index

52
g-index

112
ext. papers

3,561
ext. citations

4
avg, IF

5.07
L-index

#	Paper	IF	Citations
107	Baroreceptor reflex pathways and neurotransmitters: 10 years on. <i>Journal of Hypertension</i> , 2002 , 20, 1675-88	1.9	232
106	Evidence that blue-on cells are part of the third geniculocortical pathway in primates. <i>European Journal of Neuroscience</i> , 1997 , 9, 1536-41	3.5	215
105	Comparison of photoreceptor spatial density and ganglion cell morphology in the retina of human, macaque monkey, cat, and the marmoset <i>Callithrix jacchus</i> . <i>Journal of Comparative Neurology</i> , 1996 , 366, 55-75	3.4	124
104	Segregation of receptive field properties in the lateral geniculate nucleus of a New-World monkey, the marmoset <i>Callithrix jacchus</i> . <i>Journal of Neurophysiology</i> , 1998 , 80, 2063-76	3.2	115
103	Morphology of retinal ganglion cells in a new world monkey, the marmoset <i>Callithrix jacchus</i> . <i>Journal of Comparative Neurology</i> , 1996 , 366, 76-92	3.4	94
102	The pre-Bötzinger complex and phase-spanning neurons in the adult rat. <i>Brain Research</i> , 1998 , 809, 204-13.	3.7	81
101	The distribution of calcium-binding proteins in the lateral geniculate nucleus and visual cortex of a New World monkey, the marmoset, <i>Callithrix jacchus</i> . <i>Visual Neuroscience</i> , 1998 , 15, 625-42	1.7	81
100	Differential expression of catecholamine biosynthetic enzymes in the rat ventrolateral medulla. <i>Journal of Comparative Neurology</i> , 2001 , 432, 20-34	3.4	80
99	Retinal ganglion cells in the albino rat: Revised morphological classification 1997 , 385, 309-323		71
98	Horizontal cell connections with short-wavelength-sensitive cones in macaque monkey retina. <i>Visual Neuroscience</i> , 1996 , 13, 833-45	1.7	69
97	Differential role of kinases in brain stem of hypertensive and normotensive rats. <i>Hypertension</i> , 2001 , 38, 1087-92	8.5	68
96	Site-specific effects of apelin-13 in the rat medulla oblongata on arterial pressure and respiration. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2002 , 101, 32-8	2.4	65
95	Central command regulation of circulatory function mediated by descending pontine cholinergic inputs to sympathoexcitatory rostral ventrolateral medulla neurons. <i>Circulation Research</i> , 2007 , 100, 284-91	15.7	64
94	Catecholamine-related gene expression correlates with blood pressures in SHR. <i>Hypertension</i> , 2002 , 40, 342-7	8.5	60
93	Upregulation of angiotensin AT1 receptor and intracellular kinase gene expression in hypertensive rats. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2006 , 33, 690-5	3	59
92	Effects of acute and chronic systemic methamphetamine on respiratory, cardiovascular and metabolic function, and cardiorespiratory reflexes. <i>Journal of Physiology</i> , 2016 , 594, 763-80	3.9	58
91	PACAP is expressed in sympathoexcitatory bulbospinal C1 neurons of the brain stem and increases sympathetic nerve activity in vivo. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008 , 294, R1304-11	3.2	56

90	Cannabinoid receptor activation in the rostral ventrolateral medulla oblongata evokes cardiorespiratory effects in anaesthetised rats. <i>British Journal of Pharmacology</i> , 2003 , 140, 384-94	8.6	52
89	A Student's Guide to Neural Circuit Tracing. <i>Frontiers in Neuroscience</i> , 2019 , 13, 897	5.1	48
88	Catecholamine receptors differentially mediate impulsive choice in the medial prefrontal and orbitofrontal cortex. <i>Journal of Psychopharmacology</i> , 2013 , 27, 203-12	4.6	45
87	Brain sources of inhibitory input to the rat rostral ventrolateral medulla. <i>Journal of Comparative Neurology</i> , 2013 , 521, 213-32	3.4	44
86	Behavioral and neural substrates of habit formation in rats intravenously self-administering nicotine. <i>Neuropsychopharmacology</i> , 2014 , 39, 2584-93	8.7	43
85	Mu opioid receptors in rat ventral medulla: effects of endomorphin-1 on phrenic nerve activity. <i>Respiratory Physiology and Neurobiology</i> , 2003 , 138, 165-78	2.8	43
84	Somatostatin 2A receptor-expressing presympathetic neurons in the rostral ventrolateral medulla maintain blood pressure. <i>Hypertension</i> , 2008 , 52, 1127-33	8.5	41
83	Maps of cardiovascular and respiratory regions of rat ventral medulla: focus on the caudal medulla. <i>Journal of Chemical Neuroanatomy</i> , 2009 , 38, 209-21	3.2	40
82	Evidence for a tonic GABA-ergic inhibition of excitatory respiratory-related afferents to presympathetic neurons in the rostral ventrolateral medulla. <i>Brain Research</i> , 2002 , 924, 56-62	3.7	40
81	A fresh look at the male-specific region of the human Y chromosome. <i>Journal of Proteome Research</i> , 2013 , 12, 6-22	5.6	39
80	Excessive Respiratory Modulation of Blood Pressure Triggers Hypertension. <i>Cell Metabolism</i> , 2017 , 25, 739-748	24.6	37
79	Serotonin inputs to inspiratory laryngeal motoneurons in the rat. <i>Journal of Comparative Neurology</i> , 2002 , 451, 91-8	3.4	36
78	Tyrosine hydroxylase gene expression in ventrolateral medulla oblongata of WKY and SHR: a quantitative real-time polymerase chain reaction study. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2002 , 98, 79-84	2.4	34
77	Respiratory, metabolic and cardiac functions are altered by disinhibition of subregions of the medial prefrontal cortex. <i>Journal of Physiology</i> , 2013 , 591, 6069-88	3.9	33
76	Calbindin-immunoreactive neurons in the reticular formation of the rat brainstem: catecholamine content and spinal projections. <i>Journal of Comparative Neurology</i> , 2000 , 424, 547-62	3.4	33
75	A novel pressor area at the medullo-cervical junction that is not dependent on the RVLM: efferent pathways and chemical mediators. <i>Journal of Neuroscience</i> , 2006 , 26, 5420-7	6.6	32
74	Hypotension and short-term anaesthesia induce ERK1/2 phosphorylation in autonomic nuclei of the brainstem. <i>European Journal of Neuroscience</i> , 2005 , 22, 2257-70	3.5	32
73	Menthol enhances phasic and tonic GABAA receptor-mediated currents in midbrain periaqueductal grey neurons. <i>British Journal of Pharmacology</i> , 2014 , 171, 2803-13	8.6	30

72	Circulating angiotensin II attenuates the sympathetic baroreflex by reducing the barosensitivity of medullary cardiovascular neurones in the rat. <i>Journal of Physiology</i> , 2007 , 582, 711-22	3.9	30
71	Neurobiological consequences of acute footshock stress: effects on tyrosine hydroxylase phosphorylation and activation in the rat brain and adrenal medulla. <i>Journal of Neurochemistry</i> , 2014 , 128, 547-60	6	29
70	Rostral ventral medulla 5-HT1A receptors selectively inhibit the somatosympathetic reflex. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2001 , 280, R1261-8	3.2	29
69	Tyrosine hydroxylase phosphorylation in catecholaminergic brain regions: a marker of activation following acute hypotension and glucoprivation. <i>PLoS ONE</i> , 2012 , 7, e50535	3.7	28
68	Retrograde projections to a discrete apneic site in the midline medulla oblongata of the rat. <i>Brain Research</i> , 2008 , 1208, 128-36	3.7	28
67	NK1 receptor activation in rat rostral ventrolateral medulla selectively attenuates somato-sympathetic reflex while antagonism attenuates sympathetic chemoreflex. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005 , 288, R1707-15	3.2	28
66	The morphology and distribution of horizontal cells in the retina of a New World monkey, the marmoset <i>Callithrix jacchus</i> : a comparison with macaque monkey. <i>Visual Neuroscience</i> , 1997 , 14, 125-40	1.7	27
65	Impaired serotonergic regulation of heart rate may underlie reduced baroreflex sensitivity in an animal model of depression. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 294, H474-80	5.2	27
64	Impaired cardiac and sympathetic autonomic control in rats differing in acetylcholine receptor sensitivity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 289, H1985-92	5.2	27
63	Methamphetamine-induced sensitization is associated with alterations to the proteome of the prefrontal cortex: implications for the maintenance of psychotic disorders. <i>Journal of Proteome Research</i> , 2015 , 14, 397-410	5.6	26
62	A mapping study of cardiorespiratory responses to chemical stimulation of the midline medulla oblongata in ventilated and freely breathing rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004 , 287, R411-21	3.2	24
61	Lateralisation of projections from the rostral ventrolateral medulla to sympathetic preganglionic neurons in the rat. <i>Brain Research</i> , 2002 , 929, 181-90	3.7	24
60	NK1 receptor and the ventral medulla of the rat: bulbospinal and catecholaminergic neurons. <i>NeuroReport</i> , 2001 , 12, 3663-7	1.7	24
59	Two Splice Variants of Y Chromosome-Located Lysine-Specific Demethylase 5D Have Distinct Function in Prostate Cancer Cell Line (DU-145). <i>Journal of Proteome Research</i> , 2015 , 14, 3492-502	5.6	23
58	Somatic nerve stimulation evokes qualitatively different somatosympathetic responses in the cervical and splanchnic sympathetic nerves in the rat. <i>Brain Research</i> , 2008 , 1217, 139-47	3.7	23
57	Distribution and neurochemical characterization of neurons in the rat ventrolateral medulla activated by glucoprivation. <i>Brain Structure and Function</i> , 2015 , 220, 117-34	4	22
56	Mapping and Analysis of the Connectome of Sympathetic Premotor Neurons in the Rostral Ventrolateral Medulla of the Rat Using a Volumetric Brain Atlas. <i>Frontiers in Neural Circuits</i> , 2017 , 11, 9	3.5	22
55	Angiotensin II evokes hypotension and renal sympathoinhibition from a highly restricted region in the nucleus tractus solitarii. <i>Brain Research</i> , 2005 , 1036, 70-6	3.7	22

54	Patterning of somatosympathetic reflexes reveals nonuniform organization of presympathetic drive from C1 and non-C1 RVLM neurons. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011 , 301, R1112-22	3.2	21
53	Testing the role of pre-Bötzinger Complex somatostatin neurons in respiratory and vocal behaviors. <i>European Journal of Neuroscience</i> , 2014 , 40, 3067-77	3.5	20
52	Metabotropic neurotransmission and integration of sympathetic nerve activity by the rostral ventrolateral medulla in the rat. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2008 , 35, 508-13	3.3	20
51	Serotonin inputs to laryngeal constrictor motoneurons in the rat. <i>Laryngoscope</i> , 2005 , 115, 105-9	3.6	20
50	Neurochemical codes of sympathetic preganglionic neurons activated by glucoprivation. <i>Journal of Comparative Neurology</i> , 2013 , 521, 2703-18	3.4	19
49	Signal transduction pathways and tyrosine hydroxylase regulation in the adrenal medulla following glucoprivation: an in vivo analysis. <i>Neurochemistry International</i> , 2010 , 57, 162-7	4.4	19
48	Firing patterns of pre-Bötzinger and Bötzinger neurons during hypocapnia in the adult rat. <i>Brain Research</i> , 2001 , 903, 198-206	3.7	18
47	On the presence and functional significance of sympathetic premotor neurons with collateralized spinal axons in the rat. <i>Journal of Physiology</i> , 2019 , 597, 3407-3423	3.9	17
46	Cardiovascular autonomic dysfunction in a novel rodent model of polycystic kidney disease. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2010 , 152, 60-6	2.4	16
45	Temporal development of baroreceptor dysfunction in a rodent model of chronic kidney disease. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2013 , 40, 458-65	3	15
44	Neuropeptide Y in the rostral ventrolateral medulla blocks somatosympathetic reflexes in anesthetized rats. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2008 , 142, 64-70	2.4	15
43	A monosynaptic connection between baroinhibited neurons in the RVLM and IML in Sprague-Dawley rats. <i>Brain Research</i> , 2006 , 1089, 153-61	3.7	15
42	Substance P inputs to laryngeal motoneurons in the rat. <i>Respiratory Physiology and Neurobiology</i> , 2003 , 137, 11-8	2.8	15
41	Delta opioid receptor immunoreactive boutons appose bulbospinal CI neurons in the rat. <i>NeuroReport</i> , 2000 , 11, 887-91	1.7	15
40	Long-term effects of chronic oral Ritalin administration on cognitive and neural development in adolescent wistar kyoto rats. <i>Brain Sciences</i> , 2012 , 2, 375-404	3.4	14
39	Role of ionotropic GABA, glutamate and glycine receptors in the tonic and reflex control of cardiac vagal outflow in the rat. <i>BMC Neuroscience</i> , 2010 , 11, 128	3.2	14
38	Somatostatin in the rat rostral ventrolateral medulla: Origins and mechanism of action. <i>Journal of Comparative Neurology</i> , 2016 , 524, 323-42	3.4	14
37	GABAergic mRNA expression is upregulated in the prefrontal cortex of rats sensitized to methamphetamine. <i>Behavioural Brain Research</i> , 2016 , 297, 224-30	3.4	13

36	Control of sympathetic, respiratory and somatomotor outflow by an intraspinal pattern generator. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2008 , 35, 447-53	3	13
35	Targeting somatostatin receptors using in situ-bioconjugated fluorescent nanoparticles. <i>Nanomedicine</i> , 2012 , 7, 1551-60	5.6	12
34	Differential muscarinic receptor gene expression levels in the ventral medulla of spontaneously hypertensive and Wistar-Kyoto rats: role in sympathetic baroreflex function. <i>Journal of Hypertension</i> , 2009 , 27, 1001-8	1.9	12
33	Neurochemistry of neurons in the ventrolateral medulla activated by hypotension: Are the same neurons activated by glucoprivation?. <i>Journal of Comparative Neurology</i> , 2017 , 525, 2249-2264	3.4	11
32	Comparison of noradrenaline, dopamine and serotonin in mediating the tachycardic and thermogenic effects of methamphetamine in the ventral medial prefrontal cortex. <i>Neuroscience</i> , 2015 , 295, 209-20	3.9	11
31	Combining protein ratio p-values as a pragmatic approach to the analysis of multirun iTRAQ experiments. <i>Journal of Proteome Research</i> , 2015 , 14, 738-46	5.6	11
30	Pharmacological characterization of a recombinant, fluorescent somatostatin receptor agonist. <i>Bioconjugate Chemistry</i> , 2011 , 22, 1768-75	6.3	11
29	Effect of haemorrhage on the expression of neurotransmitter-related genes in rat ventrolateral medulla: a quantitative real-time RT-PCR study. <i>Molecular Brain Research</i> , 2003 , 114, 46-54		11
28	Differential expression of catecholamine synthetic enzymes in the caudal ventral pons. <i>Journal of Comparative Neurology</i> , 2001 , 438, 457-67	3.4	11
27	Recording, labeling, and transfection of single neurons in deep brain structures. <i>Physiological Reports</i> , 2015 , 3, e12246	2.6	10
26	Coordinated autonomic and respiratory responses evoked by alerting stimuli: Role of the midbrain colliculi. <i>Respiratory Physiology and Neurobiology</i> , 2016 , 226, 87-93	2.8	10
25	Spinal GABA(A) receptors do not mediate the sympathetic baroreceptor reflex in the rat. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000 , 279, R320-31	3.2	10
24	GABAergic mRNA expression is differentially expressed across the prelimbic and orbitofrontal cortices of rats sensitized to methamphetamine: Relevance to psychosis. <i>Neuropharmacology</i> , 2016 , 111, 107-118	5.5	9
23	Behavioral sensitization to methamphetamine induces specific interneuronal mRNA pathology across the prelimbic and orbitofrontal cortices. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2017 , 77, 42-48	5.5	8
22	Disinhibition of the midbrain colliculi unmasks coordinated autonomic, respiratory, and somatomotor responses to auditory and visual stimuli. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014 , 307, R1025-35	3.2	8
21	An aldosterone-related system in the ventrolateral medulla oblongata of spontaneously hypertensive and Wistar-Kyoto rats. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2006 , 33, 71-5	3	8
20	Quantitative shotgun proteomics reveals extensive changes to the proteome of the orbitofrontal cortex in rats that are hyperactive following withdrawal from a high sugar diet. <i>Proteomics</i> , 2016 , 16, 657-73	4.8	8
19	GABA and enkephalin tonically alter sympathetic outflows in the rat spinal cord. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2015 , 193, 84-91	2.4	7

18	Tonically Active cAMP-Dependent Signaling in the Ventrolateral Medulla Regulates Sympathetic and Cardiac Vagal Outflows. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2016 , 356, 424-33	4.7	6
17	Distribution and localisation of G β proteins in the rostral ventrolateral medulla of normotensive and hypertensive rats: focus on catecholaminergic neurons. <i>Neuroscience</i> , 2012 , 218, 20-34	3.9	6
16	Somatostatin 2 Receptors in the Spinal Cord Tonically Restrain Thermogenic, Cardiac and Other Sympathetic Outflows. <i>Frontiers in Neuroscience</i> , 2019 , 13, 121	5.1	5
15	Insight into Autonomic Nervous System Control of Heart Rate in the Rat Using Analysis of Heart Rate Variability and Baroreflex Sensitivity. <i>Neuromethods</i> , 2013 , 203-223	0.4	5
14	Somatostatin 2a receptors are not expressed on functionally identified respiratory neurons in the ventral respiratory column of the rat. <i>Journal of Comparative Neurology</i> , 2016 , 524, 1384-98	3.4	5
13	Quantitative Proteomic Analysis of the Orbital Frontal Cortex in Rats Following Extended Exposure to Caffeine Reveals Extensive Changes to Protein Expression: Implications for Neurological Disease. <i>Journal of Proteome Research</i> , 2016 , 15, 1455-71	5.6	4
12	A novel method for marking microinjection sites using methylene blue and diaminobenzidine. <i>Journal of Neuroscience Methods</i> , 2003 , 124, 207-11	3	4
11	Polysialic Acid Regulates Sympathetic Outflow by Facilitating Information Transfer within the Nucleus of the Solitary Tract. <i>Journal of Neuroscience</i> , 2017 , 37, 6558-6574	6.6	4
10	Hydralazine administration activates sympathetic preganglionic neurons whose activity mobilizes glucose and increases cardiovascular function. <i>Brain Research</i> , 2015 , 1604, 25-34	3.7	3
9	Inhibition of protein kinase A activity depresses phrenic drive and glycinergic signalling, but not rhythmogenesis in anaesthetized rat. <i>European Journal of Neuroscience</i> , 2013 , 38, 2260-70	3.5	3
8	Neuropeptides and the Central Neural Regulation of the Cardiorespiratory System. <i>Tzu Chi Medical Journal</i> , 2009 , 21, 99-102	1.1	2
7	Significance of multiple neurochemicals that regulate respiration. <i>Advances in Experimental Medicine and Biology</i> , 2008 , 605, 268-73	3.6	1
6	Extended exposure to sugar and/or caffeine produces distinct behavioral and neurochemical profiles in the orbitofrontal cortex of rats: Implications for neural function. <i>Proteomics</i> , 2016 , 16, 2894-2910	4.8	1
5	Polysialic acid in the rat brainstem and thoracolumbar spinal cord: Distribution, cellular location, and comparison with mouse. <i>Journal of Comparative Neurology</i> , 2021 , 529, 811-827	3.4	1
4	Somatostatin 2 Receptor Activation in the Rostral Ventrolateral Medulla Does Not Mediate the Decompensatory Phase of Haemorrhage. <i>Shock</i> , 2018 , 50, 331-338	3.4	0
3	Identification and distribution of inositol trisphosphate receptor subtypes in catecholaminergic cell groups in rat brainstem and midbrain. <i>FASEB Journal</i> , 2009 , 23, 889.2	0.9	
2	Distribution of G alpha subunit mRNA in rat adrenal cortex and adrenal medulla. <i>FASEB Journal</i> , 2010 , 24, 1b632	0.9	
1	Effect of barodenervation on tyrosine hydroxylase phosphorylation in rat brain following hypotension. <i>FASEB Journal</i> , 2011 , 25, 1027.18	0.9	

