

# Susan M Barman

## List of Publications by Citations

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59  
papers

766  
citations

15  
h-index

25  
g-index

61  
ext. papers

890  
ext. citations

3.1  
avg, IF

4.31  
L-index

#	Paper	IF	Citations
59	Overview of the Anatomy, Physiology, and Pharmacology of the Autonomic Nervous System. <i>Comprehensive Physiology</i> , <b>2016</b> , 6, 1239-78	7.7	154
58	Subgroups of rostral ventrolateral medullary and caudal medullary raphe neurons based on patterns of relationship to sympathetic nerve discharge and axonal projections. <i>Journal of Neurophysiology</i> , <b>1997</b> , 77, 65-75	3.2	59
57	"Rapid" rhythmic discharges of sympathetic nerves: sources, mechanisms of generation, and physiological relevance. <i>Journal of Biological Rhythms</i> , <b>2000</b> , 15, 365-79	3.2	55
56	Fractal properties of sympathetic nerve discharge. <i>Journal of Neurophysiology</i> , <b>2003</b> , 89, 833-40	3.2	31
55	Differential patterns of spinal sympathetic outflow involving a 10-Hz rhythm. <i>Journal of Neurophysiology</i> , <b>1999</b> , 82, 841-54	3.2	30
54	Deciphering the Neural Control of Sympathetic Nerve Activity: Status Report and Directions for Future Research. <i>Frontiers in Neuroscience</i> , <b>2017</b> , 11, 730	5.1	26
53	Medullary lateral tegmental field: an important source of basal sympathetic nerve discharge in the cat. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2000</b> , 278, R995-R1004	3.2	26
52	A 10-Hz rhythm reflects the organization of a brainstem network that specifically governs sympathetic nerve discharge. <i>Brain Research</i> , <b>1995</b> , 671, 345-50	3.7	26
51	Medullary lateral tegmental field: an important synaptic relay in the baroreceptor reflex pathway of the cat. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>1999</b> , 277, R1462-75	3.2	23
50	Methods of analysis and physiological relevance of rhythms in sympathetic nerve discharge. <i>Clinical and Experimental Pharmacology and Physiology</i> , <b>2007</b> , 34, 350-5	3	21
49	Defenselike patterns of spinal sympathetic outflow involving the 10-Hz and cardiac-related rhythms. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2000</b> , 278, R1616-26	3.2	17
48	Modes of baroreceptor-sympathetic coordination. <i>Journal of Neurophysiology</i> , <b>2000</b> , 84, 1157-67	3.2	17
47	Rhythmic activity of neurons in the rostral ventrolateral medulla of conscious cats: effect of removal of vestibular inputs. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2011</b> , 301, R937-46	3.2	16
46	Differential effects of an NMDA and a non-NMDA receptor antagonist on medullary lateral tegmental field neurons. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2002</b> , 282, R100-13	3.2	16
45	Fractal activity generated independently by medullary sympathetic premotor and preganglionic sympathetic neurons. <i>Journal of Neurophysiology</i> , <b>2003</b> , 90, 47-54	3.2	15
44	Role of the medullary lateral tegmental field in reflex-mediated sympathoexcitation in cats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2004</b> , 286, R451-64	3.2	15
43	Ensuring due process in the IACUC and animal welfare setting: considerations in developing noncompliance policies and procedures for institutional animal care and use committees and institutional officials. <i>FASEB Journal</i> , <b>2017</b> , 31, 4216-4225	0.9	12

42	Fractal properties of human muscle sympathetic nerve activity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2004</b> , 286, H1076-87	5.2	12
41	Role of medullary excitatory amino acid receptors in mediating the 10-Hz rhythm in sympathetic nerve discharge of cats. <i>Brain Research</i> , <b>2005</b> , 1049, 249-53	3.7	12
40	Classification of caudal ventrolateral pontine neurons with sympathetic nerve-related activity. <i>Journal of Neurophysiology</i> , <b>1998</b> , 80, 2433-45	3.2	11
39	The functional significance of the 10-Hz sympathetic rhythm: a hypothesis. <i>Clinical and Experimental Hypertension</i> , <b>1995</b> , 17, 181-95	2.2	11
38	Tonic sympathoinhibition in the baroreceptor denervated cat. <i>Experimental Biology and Medicine</i> , <b>1978</b> , 157, 648-55	3.7	11
37	Rostral ventrolateral medullary but not medullary lateral tegmental field neurons mediate sympatho-sympathetic reflexes in cats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2010</b> , 299, R1269-78	3.2	10
36	The posterior vermis of the cerebellum selectively inhibits 10-Hz sympathetic nerve discharge in anesthetized cats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2009</b> , 297, R210-7	3.2	10
35	Role of ventrolateral medulla in generating the 10-Hz rhythm in sympathetic nerve discharge. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2007</b> , 293, R223-33	3.2	10
34	2019 Ludwig Lecture: Rhythms in sympathetic nerve activity are a key to understanding neural control of the cardiovascular system. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2020</b> , 318, R191-R205	3.2	10
33	Basis for the cardiac-related rhythm in muscle sympathetic nerve activity of humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2003</b> , 284, H584-97	5.2	9
32	Rostral dorsolateral pontine neurons with sympathetic nerve-related activity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>1999</b> , 276, H401-12	5.2	9
31	What can we learn about neural control of the cardiovascular system by studying rhythms in sympathetic nerve activity?. <i>International Journal of Psychophysiology</i> , <b>2016</b> , 103, 69-78	2.9	8
30	Medullary lateral tegmental field: control of respiratory rate and vagal lung inflation afferent influences on sympathetic nerve discharge. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2005</b> , 288, R1396-410	3.2	8
29	5-Hydroxytryptamine does not reduce sympathetic nerve activity or neuroeffector function in the splanchnic circulation. <i>European Journal of Pharmacology</i> , <b>2015</b> , 754, 140-7	5.3	7
28	Role of serotonergic input to the ventrolateral medulla in expression of the 10-Hz sympathetic nerve rhythm. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2008</b> , 294, R1435-44	3.2	7
27	Medullary lateral tegmental field mediates the cardiovascular but not respiratory component of the Bezold-Jarisch reflex in the cat. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2005</b> , 289, R1693-702	3.2	7
26	Sympathetic nerve and cardiovascular responses to chemical activation of the midbrain defense region. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2001</b> , 280, R1704-12	3.2	7
25	Highlights in basic autonomic neurosciences: Is an increase in sympathetic nerve activity involved in the development and maintenance of hypertension?. <i>Autonomic Neuroscience: Basic and Clinical</i> , <b>2014</b> , 180, 1-4	2.4	6

24	Pontine neurons are elements of the network responsible for the 10-Hz rhythm in sympathetic nerve discharge. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>1997</b> , 273, H1909-19	5.2	6
23	Paradoxical sympathetic nerve response to baroreceptor reflex activation. <i>Brain Research</i> , <b>1998</b> , 780, 155-60	3.7	6
22	Medullary lateral tegmental field neurons influence the timing and pattern of phrenic nerve activity in cats. <i>Journal of Applied Physiology</i> , <b>2006</b> , 101, 521-30	3.7	5
21	Differential relationships among 10-Hz rhythmic discharges of sympathetic nerves with different targets depend on supraspinal rather than spinal mechanisms. <i>Brain Research</i> , <b>1995</b> , 670, 329-32	3.7	5
20	Differential pattern of spinal sympathetic outflow in response to stimulation of the caudal medullary raphe. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2000</b> , 279, R210-21	3.2	4
19	Effects on sympathetic activity of 8-OHDPAT and clonidine in cat medullary lateral tegmental field. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2001</b> , 281, H613-22	5.2	4
18	The role of the medullary lateral tegmental field in the generation and baroreceptor reflex control of sympathetic nerve discharge in the cat. <i>Annals of the New York Academy of Sciences</i> , <b>2001</b> , 940, 270-85	6.5	3
17	Responses of neurons in the rostral ventrolateral medulla of conscious cats to anticipated and passive movements. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2020</b> , 318, R481-R492	3.2	2
16	Sympathetic nerve activity has more character than you may think. <i>Journal of Physiology</i> , <b>2009</b> , 587, 4767-8	3.8	2
15	Physiology without borders: report on physiology education workshops in India-IUPS Initiatives (2018-2019). <i>American Journal of Physiology - Advances in Physiology Education</i> , <b>2020</b> , 44, 309-313	1.9	1
14	Hyped up about the hypothalamus. <i>Journal of Physiology</i> , <b>2009</b> , 587, 4129-30	3.9	1
13	IUPS Physiology Education Workshop series in India: organizational mechanics, outcomes, and lessons. <i>American Journal of Physiology - Advances in Physiology Education</i> , <b>2020</b> , 44, 709-721	1.9	1
12	Responses of Neurons in the Medullary Lateral Tegmental Field and Nucleus Tractus Solitarius to Vestibular Stimuli in Conscious Felines		1
11	Responses of Neurons in the Medullary Lateral Tegmental Field and Nucleus Tractus Solitarius to Vestibular Stimuli in Conscious Felines. <i>Frontiers in Neurology</i> , <b>2020</b> , 11, 620817	4.1	1
10	Renewed excitement for paraventricular neurons and sympathetic nerve activity. <i>Journal of Physiology</i> , <b>2018</b> , 596, 4551-4552	3.9	
9	Fractal noises and motions in time series of presympathetic and sympathetic neural activities. <i>FASEB Journal</i> , <b>2006</b> , 20, A367	0.9	
8	Role of GABA in generating the 10-Hz rhythm in sympathetic nerve discharge. <i>FASEB Journal</i> , <b>2007</b> , 21, A882	0.9	
7	Role of 5-hydroxytryptamine (5-HT <sub>2</sub> ) receptors in the ventrolateral medulla (VLM) in the expression of the 10-Hz rhythm in sympathetic nerve discharge (SND). <i>FASEB Journal</i> , <b>2008</b> , 22, 1169.4	0.9	

- 6 Response of Neurons in the Rostral Ventrolateral Medulla (RVLM) to Anticipated and Passive Movements. *FASEB Journal*, **2019**, 33, 562.3 0.9
- 5 A Selective Inhibitory Effect of the Posterior Cerebellar Vermis on 10-Hz Sympathetic Nerve Discharge. *FASEB Journal*, **2009**, 23, 609.6 0.9
- 4 Activity of Neurons in the Rostral Ventrolateral Medulla (RVLM) of Conscious Cats. *FASEB Journal*, **2010**, 24, 625.3 0.9
- 3 Rostral ventrolateral medullary (RVLM) but not medullary lateral tegmental field (LTF) neurons are in the pathway mediating sympathoexcitatory (SE) responses elicited by activation of cardiac and splanchnic sympathetic afferents. *FASEB Journal*, **2010**, 24, 808.5 0.9
- 2 Cardiac-related and other rhythmic activity of neurons in the rostral ventrolateral medulla (RVLM) of conscious cats: effects of vestibular lesions. *FASEB Journal*, **2011**, 25, 1027.4 0.9
- 1 Responses of neurons in the rostral ventrolateral medulla (RVLM) to moderate-amplitude tilts: comparisons in conscious and decerebrate cats. *FASEB Journal*, **2011**, 25, 1027.5 0.9