

# Donald R Mccrimmon

## List of Publications by Year in descending order

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48  
papers

3,036  
citations

172386

29  
h-index

233338

45  
g-index

66  
all docs

66  
docs citations

66  
times ranked

2101  
citing authors

#	ARTICLE	IF	CITATIONS
1	Normal breathing requires pre-Bötzing complex neurokinin-1 receptor-expressing neurons. <i>Nature Neuroscience</i> , 2001, 4, 927-930.	7.1	481
2	Central pathways of pulmonary and lower airway vagal afferents. <i>Journal of Applied Physiology</i> , 2006, 101, 618-627.	1.2	392
3	Biocompatible Nanoscale Dispersion of Single-Walled Carbon Nanotubes Minimizes in vivo Pulmonary Toxicity. <i>Nano Letters</i> , 2010, 10, 1664-1670.	4.5	183
4	The chemical neuroanatomy of breathing. <i>Respiratory Physiology and Neurobiology</i> , 2008, 164, 3-11.	0.7	170
5	Neurons in a discrete region of the nucleus tractus solitarius are required for the Breuer-Hering reflex in rat. <i>Journal of Physiology</i> , 1990, 427, 261-280.	1.3	152
6	Respiratory Neurons Mediating the Breuer-Hering Reflex Prolongation of Expiration in Rat. <i>Journal of Neuroscience</i> , 1996, 16, 6526-6536.	1.7	132
7	Pontine influences on breathing: an overview. <i>Respiratory Physiology and Neurobiology</i> , 2004, 143, 105-114.	0.7	114
8	Pulmonary stretch receptor afferents activate excitatory amino acid receptors in the nucleus tractus solitarius in rats. <i>Journal of Physiology</i> , 1993, 464, 725-745.	1.3	93
9	Resurgent Na Currents in Four Classes of Neurons of the Cerebellum. <i>Journal of Neurophysiology</i> , 2004, 92, 2831-2843.	0.9	90
10	Defining ventral medullary respiratory compartments with a glutamate receptor agonist in the rat. <i>Journal of Physiology</i> , 2003, 548, 859-874.	1.3	81
11	Parvalbumin in respiratory neurons of the ventrolateral medulla of the adult rat. <i>Journal of Neurocytology</i> , 2002, 31, 693-717.	1.6	80
12	Modulation of the synaptic drive to respiratory premotor and motor neurons. <i>Respiration Physiology</i> , 1997, 110, 161-176.	2.8	79
13	Sodium Currents in Medullary Neurons Isolated from the Pre-Bötzing Complex Region. <i>Journal of Neuroscience</i> , 2005, 25, 5159-5170.	1.7	75
14	Monoamine neurotransmitter metabolism during acclimatization to hypoxia in rats. <i>Respiration Physiology</i> , 1983, 54, 79-96.	2.8	70
15	Caudal nuclei of the rat nucleus of the solitary tract differentially innervate respiratory compartments within the ventrolateral medulla. <i>Neuroscience</i> , 2011, 190, 207-227.	1.1	69
16	Serotonin and the control of ventilation in awake rats. <i>Journal of Clinical Investigation</i> , 1979, 64, 689-693.	3.9	66
17	Intrinsic bursting activity in the pre-Bötzing Complex: Role of persistent sodium and potassium currents. <i>Biological Cybernetics</i> , 2004, 90, 59-74.	0.6	58
18	Sodium Currents in Neurons From the Rostroventrolateral Medulla of the Rat. <i>Journal of Neurophysiology</i> , 2003, 90, 1635-1642.	0.9	51

#	ARTICLE	IF	CITATIONS
19	Pattern Formation And Rhythm Generation In The Ventral Respiratory Group. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2000, 27, 126-131.	0.9	50
20	Gain modulation of respiratory neurons. <i>Respiratory Physiology and Neurobiology</i> , 2002, 131, 121-133.	0.7	46
21	Parabrachialâ€“lateral pontine neurons link nociception and breathing. <i>Respiratory Physiology and Neurobiology</i> , 2004, 143, 215-233.	0.7	43
22	Unraveling the mechanism for respiratory rhythm generation. <i>BioEssays</i> , 2000, 22, 6-9.	1.2	41
23	Short-term plasticity of descending synaptic input to phrenic motoneurons in rats. <i>Journal of Applied Physiology</i> , 2003, 94, 1421-1430.	1.2	38
24	Role of the ventrolateral region of the nucleus of the tractus solitarius in processing respiratory afferent input from vagus and superior laryngeal nerves. <i>Experimental Brain Research</i> , 1987, 67, 449-59.	0.7	36
25	Respiratory rhythm generation: converging concepts from in vitro and in vivo approaches?. <i>Respiratory Physiology and Neurobiology</i> , 2002, 131, 43-56.	0.7	36
26	Acidâ€“sensing ion channels contribute to chemosensitivity of breathingâ€“related neurons of the nucleus of the solitary tract. <i>Journal of Physiology</i> , 2012, 590, 4761-4775.	1.3	36
27	Cardiovascular response to interval and continuous training in women. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1979, 41, 187-197.	1.2	34
28	Effect of synchronous activation of medullary inspiratory bulbo-spinal neurones on phrenic nerve discharge in cat.. <i>Journal of Physiology</i> , 1984, 347, 241-254.	1.3	34
29	On the opiate trail of respiratory depression. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2003, 285, R1274-R1275.	0.9	33
30	A Leptin-Mediated Neural Mechanism Linking Breathing to Metabolism. <i>Cell Reports</i> , 2020, 33, 108358.	2.9	26
31	pH modulation of glial glutamate transporters regulates synaptic transmission in the nucleus of the solitary tract. <i>Journal of Neurophysiology</i> , 2013, 110, 368-377.	0.9	25
32	Differential Processing of Excitation by GABAergic Gain Modulation in Canine Caudal Ventral Respiratory Group Neurons. <i>Journal of Neurophysiology</i> , 2003, 89, 862-870.	0.9	18
33	Overview: The neurochemistry of respiratory control. <i>Respiratory Physiology and Neurobiology</i> , 2008, 164, 1-2.	0.7	14
34	Concept Mapping in Pulmonary Physiology Using Pathfinder Scaling. <i>Advances in Health Sciences Education</i> , 2004, 9, 225-240.	1.7	13
35	Voltage-dependent calcium signaling in rat cerebellar unipolar brush cells. <i>Neuroscience</i> , 2009, 162, 702-712.	1.1	13
36	The rhombencephalon and breathing: a view from the pons. <i>Respiratory Physiology and Neurobiology</i> , 2004, 143, 103-104.	0.7	12

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37	Medical and Veterinary Students' Structural Knowledge of Pulmonary Physiology Concepts. Academic Medicine, 2000, 75, 362-368.	0.8	11
38	Respiratory Rhythm Generation: Pre-Bötzinger Neuron Discharge Patterns and Persistent Sodium Current. Advances in Experimental Medicine and Biology, 2001, 499, 147-152.	0.8	11
39	Activation of astrocytic PAR1 receptors in the rat nucleus of the solitary tract regulates breathing through modulation of presynaptic TRPV1. Journal of Physiology, 2018, 596, 497-513.	1.3	11
40	Converging Functional and Anatomical Evidence for Novel Brainstem Respiratory Compartments in the Rat. Advances in Experimental Medicine and Biology, 2004, 551, 101-105.	0.8	7
41	Neonatal stress alters adult breathing. Journal of Physiology, 2004, 554, 591-591.	1.3	6
42	Reflexively inhibiting respiratory drive. Journal of Physiology, 2007, 580, 3-3.	1.3	2
43	Teaching an intuitive derivation of the clinical alveolar equations: mass balance as a fundamental physiological principle. American Journal of Physiology - Advances in Physiology Education, 2020, 44, 145-152.	0.8	2
44	Microinjection of (sub)picomoles of excitatory amino acids into cat or rat brainstem alters respiratory and cardiovascular motor control. Journal of Neuroscience Methods, 1986, 17, 186-187.	1.3	1
45	Capra, eupnea, dyspnea, apnea: respiratory rhythms and the pre-Bötzinger complex in the goat. Journal of Applied Physiology, 2004, 97, 1618-1619.	1.2	1
46	3 Splice. , 2008, , 1-1.		0
47	Turning the PAGe on central control of the exercise pressor reflex in humans. Journal of Applied Physiology, 2011, 110, 867-868.	1.2	0
48	Galanin (GAL)-immunoreactive (ir) axons closely appose parvalbumin (Parv)-immunoreactive neurons in the rat ventral respiratory column (VRC). FASEB Journal, 2010, 24, 1064.9.	0.2	0