

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 | A Leptin-Mediated Neural Mechanism Linking Breathing to Metabolism. <i>Cell Reports</i> , 2020, 33, 108358. | 2.9 | 26 |
| 2 | Teaching an intuitive derivation of the clinical alveolar equations: mass balance as a fundamental physiological principle. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2020, 44, 145-152. | 0.8 | 2 |
| 3 | Activation of astrocytic PAR1 receptors in the rat nucleus of the solitary tract regulates breathing through modulation of presynaptic TRPV1. <i>Journal of Physiology</i> , 2018, 596, 497-513. | 1.3 | 11 |
| 4 | 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 |
| 5 | Acid-sensing ion channels contribute to chemosensitivity of breathing-related neurons of the nucleus of the solitary tract. <i>Journal of Physiology</i> , 2012, 590, 4761-4775. | 1.3 | 36 |
| 6 | 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 |
| 7 | Turning the PAGE on central control of the exercise pressor reflex in humans. <i>Journal of Applied Physiology</i> , 2011, 110, 867-868. | 1.2 | 0 |
| 8 | Biocompatible Nanoscale Dispersion of Single-Walled Carbon Nanotubes Minimizes in vivo Pulmonary Toxicity. <i>Nano Letters</i> , 2010, 10, 1664-1670. | 4.5 | 183 |
| 9 | Galanin (GAL)-immunoreactive (ir) axons closely appose parvalbumin (Parv)-immunoreactive neurons in the rat ventral respiratory column (VRC). <i>FASEB Journal</i> , 2010, 24, 1064.9. | 0.2 | 0 |
| 10 | Voltage-dependent calcium signaling in rat cerebellar unipolar brush cells. <i>Neuroscience</i> , 2009, 162, 702-712. | 1.1 | 13 |
| 11 | The chemical neuroanatomy of breathing. <i>Respiratory Physiology and Neurobiology</i> , 2008, 164, 3-11. | 0.7 | 170 |
| 12 | Overview: The neurochemistry of respiratory control. <i>Respiratory Physiology and Neurobiology</i> , 2008, 164, 1-2. | 0.7 | 14 |
| 13 | 3 Splice. , 2008, , 1-1. | | 0 |
| 14 | Reflexively inhibiting respiratory drive. <i>Journal of Physiology</i> , 2007, 580, 3-3. | 1.3 | 2 |
| 15 | Central pathways of pulmonary and lower airway vagal afferents. <i>Journal of Applied Physiology</i> , 2006, 101, 618-627. | 1.2 | 392 |
| 16 | Sodium Currents in Medullary Neurons Isolated from the Pre-Botzinger Complex Region. <i>Journal of Neuroscience</i> , 2005, 25, 5159-5170. | 1.7 | 75 |
| 17 | Capra, eupnea, dyspnea, apnea: respiratory rhythms and the pre-Böttinger complex in the goat. <i>Journal of Applied Physiology</i> , 2004, 97, 1618-1619. | 1.2 | 1 |
| 18 | Converging Functional and Anatomical Evidence for Novel Brainstem Respiratory Compartments in the Rat. <i>Advances in Experimental Medicine and Biology</i> , 2004, 551, 101-105. | 0.8 | 7 |

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|----|--|-----|-----------|
| 19 | Neonatal stress alters adult breathing. <i>Journal of Physiology</i> , 2004, 554, 591-591. | 1.3 | 6 |
| 20 | Concept Mapping in Pulmonary Physiology Using Pathfinder Scaling. <i>Advances in Health Sciences Education</i> , 2004, 9, 225-240. | 1.7 | 13 |
| 21 | 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 |
| 22 | The rhombencephalon and breathing: a view from the pons. <i>Respiratory Physiology and Neurobiology</i> , 2004, 143, 103-104. | 0.7 | 12 |
| 23 | Pontine influences on breathing: an overview. <i>Respiratory Physiology and Neurobiology</i> , 2004, 143, 105-114. | 0.7 | 114 |
| 24 | Parabrachial lateral pontine neurons link nociception and breathing. <i>Respiratory Physiology and Neurobiology</i> , 2004, 143, 215-233. | 0.7 | 43 |
| 25 | Resurgent Na Currents in Four Classes of Neurons of the Cerebellum. <i>Journal of Neurophysiology</i> , 2004, 92, 2831-2843. | 0.9 | 90 |
| 26 | 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 |
| 27 | Sodium Currents in Neurons From the Rostrolateral Medulla of the Rat. <i>Journal of Neurophysiology</i> , 2003, 90, 1635-1642. | 0.9 | 51 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | Gain modulation of respiratory neurons. <i>Respiratory Physiology and Neurobiology</i> , 2002, 131, 121-133. | 0.7 | 46 |
| 33 | Parvalbumin in respiratory neurons of the ventrolateral medulla of the adult rat. <i>Journal of Neurocytology</i> , 2002, 31, 693-717. | 1.6 | 80 |
| 34 | Respiratory Rhythm Generation: Pre-Bötzing Neuron Discharge Patterns and Persistent Sodium Current. <i>Advances in Experimental Medicine and Biology</i> , 2001, 499, 147-152. | 0.8 | 11 |
| 35 | Normal breathing requires pre-Bötzing complex neurokinin-1 receptor-expressing neurons. <i>Nature Neuroscience</i> , 2001, 4, 927-930. | 7.1 | 481 |
| 36 | Unraveling the mechanism for respiratory rhythm generation. <i>BioEssays</i> , 2000, 22, 6-9. | 1.2 | 41 |

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|----|---|-----|-----------|
| 37 | Pattern Formation And Rhythm Generation In The Ventral Respiratory Group. Clinical and Experimental Pharmacology and Physiology, 2000, 27, 126-131. | 0.9 | 50 |
| 38 | Medical and Veterinary Students's Structural Knowledge of Pulmonary Physiology Concepts. Academic Medicine, 2000, 75, 362-368. | 0.8 | 11 |
| 39 | Modulation of the synaptic drive to respiratory premotor and motor neurons. Respiration Physiology, 1997, 110, 161-176. | 2.8 | 79 |
| 40 | Respiratory Neurons Mediating the Breuer-Hering Reflex Prolongation of Expiration in Rat. Journal of Neuroscience, 1996, 16, 6526-6536. | 1.7 | 132 |
| 41 | Pulmonary stretch receptor afferents activate excitatory amino acid receptors in the nucleus tractus solitarius in rats.. Journal of Physiology, 1993, 464, 725-745. | 1.3 | 93 |
| 42 | Neurones in a discrete region of the nucleus tractus solitarius are required for the Breuer-Hering reflex in rat.. Journal of Physiology, 1990, 427, 261-280. | 1.3 | 152 |
| 43 | Role of the ventrolateral region of the nucleus of the tractus solitarius in processing respiratory afferent input from vagus and superior laryngeal nerves. Experimental Brain Research, 1987, 67, 449-59. | 0.7 | 36 |
| 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 | Effect of synchronous activation of medullary inspiratory bulbo-spinal neurones on phrenic nerve discharge in cat.. Journal of Physiology, 1984, 347, 241-254. | 1.3 | 34 |
| 46 | Monoamine neurotransmitter metabolism during acclimatization to hypoxia in rats. Respiration Physiology, 1983, 54, 79-96. | 2.8 | 70 |
| 47 | Cardiovascular response to interval and continuous training in women. European Journal of Applied Physiology and Occupational Physiology, 1979, 41, 187-197. | 1.2 | 34 |
| 48 | Serotonin and the control of ventilation in awake rats.. Journal of Clinical Investigation, 1979, 64, 689-693. | 3.9 | 66 |