

George Bradley Richerson

List of Publications by Year in descending order

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126
papers

9,813
citations

36203

51
h-index

37111

96
g-index

130
all docs

130
docs citations

130
times ranked

6635
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcium-sensitive potassium channelopathy in human epilepsy and paroxysmal movement disorder. <i>Nature Genetics</i> , 2005, 37, 733-738.	9.4	513
2	Sudden unexpected death in epilepsy: epidemiology, mechanisms, and prevention. <i>Lancet Neurology</i> , The, 2016, 15, 1075-1088.	4.9	472
3	Serotonergic neurons as carbon dioxide sensors that maintain pH homeostasis. <i>Nature Reviews Neuroscience</i> , 2004, 5, 449-461.	4.9	435
4	Origin of variability in quantal size in cultured hippocampal neurons and hippocampal slices.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990, 87, 5359-5362.	3.3	388
5	Impaired Respiratory and Body Temperature Control Upon Acute Serotonergic Neuron Inhibition. <i>Science</i> , 2011, 333, 637-642.	6.0	305
6	Mechanisms of sudden unexpected death in epilepsy: the pathway to prevention. <i>Nature Reviews Neurology</i> , 2014, 10, 271-282.	4.9	287
7	Defects in Breathing and Thermoregulation in Mice with Near-Complete Absence of Central Serotonin Neurons. <i>Journal of Neuroscience</i> , 2008, 28, 2495-2505.	1.7	283
8	Dynamic Equilibrium of Neurotransmitter Transporters: Not Just for Reuptake Anymore. <i>Journal of Neurophysiology</i> , 2003, 90, 1363-1374.	0.9	276
9	The Brainstem and Serotonin in the Sudden Infant Death Syndrome. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2009, 4, 517-550.	9.6	250
10	Acidosis-Stimulated Neurons of the Medullary Raphe Are Serotonergic. <i>Journal of Neurophysiology</i> , 2001, 85, 2224-2235.	0.9	231
11	Raph \ddot{a} Neurons Stimulate Respiratory Circuit Activity by Multiple Mechanisms via Endogenously Released Serotonin and Substance P. <i>Journal of Neuroscience</i> , 2009, 29, 3720-3737.	1.7	231
12	Nonvesicular Inhibitory Neurotransmission via Reversal of the GABA Transporter GAT-1. <i>Neuron</i> , 2007, 56, 851-865.	3.8	222
13	Central serotonin neurons are required for arousal to CO ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16354-16359.	3.3	221
14	Breathing Inhibited When Seizures Spread to the Amygdala and upon Amygdala Stimulation. <i>Journal of Neuroscience</i> , 2015, 35, 10281-10289.	1.7	180
15	Response to CO ₂ of neurons in the rostral ventral medulla in vitro. <i>Journal of Neurophysiology</i> , 1995, 73, 933-944.	0.9	178
16	Midbrain serotonergic neurons are central pH chemoreceptors. <i>Nature Neuroscience</i> , 2003, 6, 1139-1140.	7.1	177
17	The serotonin axis: Shared mechanisms in seizures, depression, and SUDEP. <i>Epilepsia</i> , 2011, 52, 28-38.	2.6	176
18	Chemosensitivity of rat medullary raphe neurones in primary tissue culture. <i>Journal of Physiology</i> , 1998, 511, 433-450.	1.3	169

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19	Thyrotropin-releasing hormone induces rhythmic bursting in neurons of the nucleus tractus solitarius. <i>Science</i> , 1985, 229, 67-69.	6.0	159
20	Chemosensitivity of serotonergic neurons in the rostral ventral medulla. <i>Respiration Physiology</i> , 2001, 129, 175-189.	2.8	146
21	Chemosensitive serotonergic neurons are closely associated with large medullary arteries. <i>Nature Neuroscience</i> , 2002, 5, 401-402.	7.1	146
22	Continuous Positive Airway Pressure: Evaluation of a Novel Therapy for Patients with Acute Ischemic Stroke. <i>Sleep</i> , 2011, 34, 1271-1277.	0.6	143
23	Transgenic Mice Lacking Serotonin Neurons Have Severe Apnea and High Mortality during Development. <i>Journal of Neuroscience</i> , 2009, 29, 10341-10349.	1.7	142
24	GABA Transaminase Inhibition Induces Spontaneous and Enhances Depolarization-Evoked GABA Efflux via Reversal of the GABA Transporter. <i>Journal of Neuroscience</i> , 2001, 21, 2630-2639.	1.7	139
25	Vigabatrin Induces Tonic Inhibition Via GABA Transporter Reversal Without Increasing Vesicular GABA Release. <i>Journal of Neurophysiology</i> , 2003, 89, 2021-2034.	0.9	138
26	Serotonin neurones have anti-convulsant effects and reduce seizure-induced mortality. <i>Journal of Physiology</i> , 2014, 592, 4395-4410.	1.3	136
27	Medullary serotonergic neurones and adjacent neurones that express neurokinin-1 receptors are both involved in chemoreception in vivo. <i>Journal of Physiology</i> , 2004, 556, 235-253.	1.3	130
28	Postconvulsive central apnea as a biomarker for sudden unexpected death in epilepsy (SUDEP). <i>Neurology</i> , 2019, 92, e171-e182.	1.5	130
29	Medullary serotonin neurons and central CO ₂ chemoreception. <i>Respiratory Physiology and Neurobiology</i> , 2009, 168, 49-58.	0.7	126
30	The role of medullary serotonin (5-HT) neurons in respiratory control: contributions to eupneic ventilation, CO ₂ chemoreception, and thermoregulation. <i>Journal of Applied Physiology</i> , 2010, 108, 1425-1432.	1.2	117
31	Contributions of 5-HT neurons to respiratory control: Neuromodulatory and trophic effects. <i>Respiratory Physiology and Neurobiology</i> , 2008, 164, 222-232.	0.7	115
32	Development of chemosensitivity of rat medullary raphe neurons. <i>Neuroscience</i> , 1999, 90, 1001-1011.	1.1	113
33	The incidence and significance of periictal apnea in epileptic seizures. <i>Epilepsia</i> , 2018, 59, 573-582.	2.6	113
34	Quantification of the response of rat medullary raphe neurones to independent changes in pH _o and P _{CO2} . <i>Journal of Physiology</i> , 2002, 540, 951-970.	1.3	108
35	Functional and Developmental Identification of a Molecular Subtype of Brain Serotonergic Neuron Specialized to Regulate Breathing Dynamics. <i>Cell Reports</i> , 2014, 9, 2152-2165.	2.9	106
36	Severe peri-ictal respiratory dysfunction is common in Dravet syndrome. <i>Journal of Clinical Investigation</i> , 2018, 128, 1141-1153.	3.9	103

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37	Impaired Serotonergic Brainstem Function during and after Seizures. <i>Journal of Neuroscience</i> , 2016, 36, 2711-2722.	1.7	96
38	Carrier-Mediated GABA Release Activates GABA Receptors on Hippocampal Neurons. <i>Journal of Neurophysiology</i> , 1998, 80, 270-281.	0.9	87
39	Gabapentin potentiates the conductance increase induced by nipecotic acid in CA1 pyramidal neurons in vitro. <i>Epilepsy Research</i> , 1995, 20, 193-202.	0.8	85
40	Localization and behaviors in null mice suggest that <i>ASIC1</i> and <i>ASIC2</i> modulate responses to aversive stimuli. <i>Genes, Brain and Behavior</i> , 2014, 13, 179-194.	1.1	83
41	Role of the GABA Transporter in Epilepsy. <i>Advances in Experimental Medicine and Biology</i> , 2004, 548, 76-91.	0.8	83
42	Medullary serotonin neurons and their roles in central respiratory chemoreception. <i>Respiratory Physiology and Neurobiology</i> , 2010, 173, 256-263.	0.7	76
43	Disruption of the non-canonical Wnt gene <i>PRICKLE2</i> leads to autism-like behaviors with evidence for hippocampal synaptic dysfunction. <i>Molecular Psychiatry</i> , 2013, 18, 1077-1089.	4.1	74
44	Serotonin Neurons and Central Respiratory Chemoreception. <i>Progress in Brain Research</i> , 2014, 209, 207-233.	0.9	72
45	Central Serotonergic Neurons Activate and Recruit Thermogenic Brown and Beige Fat and Regulate Glucose and Lipid Homeostasis. <i>Cell Metabolism</i> , 2015, 21, 692-705.	7.2	70
46	Sudden unexpected death in epilepsy: Fatal post-ictal respiratory and arousal mechanisms. <i>Respiratory Physiology and Neurobiology</i> , 2013, 189, 315-323.	0.7	69
47	Auto-Titrating Continuous Positive Airway Pressure for Patients With Acute Transient Ischemic Attack. <i>Stroke</i> , 2010, 41, 1464-1470.	1.0	67
48	Sudden unexpected death in epilepsy: basic mechanisms and clinical implications for prevention. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, 402-413.	0.9	67
49	Role of chemoreceptors in mediating dyspnea. <i>Respiratory Physiology and Neurobiology</i> , 2009, 167, 9-19.	0.7	63
50	Incidence, Recurrence, and Risk Factors for Peri-ictal Central Apnea and Sudden Unexpected Death in Epilepsy. <i>Frontiers in Neurology</i> , 2019, 10, 166.	1.1	63
51	5-HT _{2A} receptor activation is necessary for CO ₂ -induced arousal. <i>Journal of Neurophysiology</i> , 2015, 114, 233-243.	0.9	55
52	Serum serotonin levels in patients with epileptic seizures. <i>Epilepsia</i> , 2018, 59, e91-e97.	2.6	50
53	Mechanism of Increased Open Probability by a Mutation of the BK Channel. <i>Journal of Neurophysiology</i> , 2006, 96, 1507-1516.	0.9	46
54	Looking for GABA in all the Wrong Places: The Relevance of Extrasynaptic GABA _A Receptors to Epilepsy. <i>Epilepsy Currents</i> , 2004, 4, 239-242.	0.4	45

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55	A human amygdala site that inhibits respiration and elicits apnea in pediatric epilepsy. JCI Insight, 2020, 5, .	2.3	45
56	The Transmembrane Sodium Gradient Influences Ambient GABA Concentration by Altering the Equilibrium of GABA Transporters. Journal of Neurophysiology, 2006, 96, 2425-2436.	0.9	44
57	Medullary serotonin neurons are CO ₂ sensitive in situ. Journal of Neurophysiology, 2013, 110, 2536-2544.	0.9	44
58	Effect of extracellular acid-base disturbances on the intracellular pH of neurones cultured from rat medullary raphe or hippocampus. Journal of Physiology, 2004, 559, 85-101.	1.3	43
59	Interaction between defects in ventilatory and thermoregulatory control in mice lacking 5-HT neurons. Respiratory Physiology and Neurobiology, 2008, 164, 350-357.	0.7	43
60	From unwitnessed fatality to witnessed rescue: Pharmacologic intervention in sudden unexpected death in epilepsy. Epilepsia, 2016, 57, 35-45.	2.6	43
61	GFP-expressing locus ceruleus neurons from Prp57 transgenic mice exhibit CO ₂ /H ⁺ responses in primary cell culture. Journal of Applied Physiology, 2008, 105, 1301-1311.	1.2	39
62	Altered ventilatory and thermoregulatory control in male and female adult Pet-1 null mice. Respiratory Physiology and Neurobiology, 2011, 177, 133-140.	0.7	39
63	The Alteration of Neonatal Raphe Neurons by Prenatal Perinatal Nicotine. Meaning for Sudden Infant Death Syndrome. American Journal of Respiratory Cell and Molecular Biology, 2015, 53, 489-499.	1.4	39
64	Chemosensitivity of Phox2b-expressing retrotrapezoid neurons is mediated in part by input from 5-HT neurons. Journal of Physiology, 2019, 597, 2741-2766.	1.3	38
65	Insomnia Caused by Serotonin Depletion is Due to Hypothermia. Sleep, 2015, 38, 1985-1993.	0.6	35
66	Enhancement of GABAA receptor-mediated conductances induced by nerve injury in a subclass of sensory neurons. Journal of Neurophysiology, 1995, 74, 673-683.	0.9	34
67	Serotonergic mechanisms are necessary for central respiratory chemoresponsiveness in situ. Respiratory Physiology and Neurobiology, 2013, 186, 214-220.	0.7	34
68	Time of Day and a Ketogenic Diet Influence Susceptibility to SUDEP in Scn1aR1407X/+ Mice. Frontiers in Neurology, 2019, 10, 278.	1.1	34
69	Isoflurane abolishes spontaneous firing of serotonin neurons and masks their pH/CO ₂ chemosensitivity. Journal of Neurophysiology, 2015, 113, 2879-2888.	0.9	33
70	Preservation of integrative function in a perfused guinea pig brain. Brain Research, 1990, 517, 7-18.	1.1	32
71	Chemosensitivity of non-respiratory rat CNS neurons in tissue culture. Brain Research, 2000, 860, 119-129.	1.1	32
72	Isoflurane, ketamine-xylazine, and urethane markedly alter breathing even at subtherapeutic doses. Journal of Neurophysiology, 2017, 118, 2389-2401.	0.9	32

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73	The BBSome in POMC and AgRP Neurons Is Necessary for Body Weight Regulation and Sorting of Metabolic Receptors. <i>Diabetes</i> , 2019, 68, 1591-1603.	0.3	32
74	Ventilatory response to CO ₂ in patients with epilepsy. <i>Epilepsia</i> , 2019, 60, 508-517.	2.6	31
75	Postictal serotonin levels are associated with peri-ictal apnea. <i>Neurology</i> , 2019, 93, e1485-e1494.	1.5	28
76	Benefit of buspirone on chemoreflex and central apnoeas in heart failure: a randomized controlled crossover trial. <i>European Journal of Heart Failure</i> , 2021, 23, 312-320.	2.9	28
77	Dual Effects of 5-HT _{1a} Receptor Activation on Breathing in Neonatal Mice. <i>Journal of Neuroscience</i> , 2014, 34, 51-59.	1.7	27
78	Medullary 5-HT neurons: Switch from tonic respiratory drive to chemoreception during postnatal development. <i>Neuroscience</i> , 2017, 344, 1-14.	1.1	26
79	Serotonin: The Anti-SuddenDeathAmine?. <i>Epilepsy Currents</i> , 2013, 13, 241-244.	0.4	25
80	Modulation of Tonic GABA Currents by Anion Channel and Connexin Hemichannel Antagonists. <i>Neurochemical Research</i> , 2017, 42, 2551-2559.	1.6	25
81	Postictal Death Is Associated with Tonic Phase Apnea in a Mouse Model of Sudden Unexpected Death in Epilepsy. <i>Annals of Neurology</i> , 2021, 89, 1023-1035.	2.8	25
82	The association of serotonin reuptake inhibitors and benzodiazepines with ictal central apnea. <i>Epilepsy and Behavior</i> , 2019, 98, 73-79.	0.9	23
83	Amygdala lesions reduce seizure-induced respiratory arrest in DBA/1 mice. <i>Epilepsy and Behavior</i> , 2021, 121, 106440.	0.9	23
84	Maintenance of complex neural function during perfusion of the mammalian brain. <i>Brain Research</i> , 1987, 409, 128-132.	1.1	21
85	Diphtheria toxin treatment of Pet-1-Cre floxed diphtheria toxin receptor mice disrupts thermoregulation without affecting respiratory chemoreception. <i>Neuroscience</i> , 2014, 279, 65-76.	1.1	19
86	Postdepolarization Potentiation of GABAA Receptors: A Novel Mechanism Regulating Tonic Conductance in Hippocampal Neurons. <i>Journal of Neuroscience</i> , 2010, 30, 7672-7684.	1.7	18
87	Rapid regulation of tonic GABA currents in cultured rat hippocampal neurons. <i>Journal of Neurophysiology</i> , 2013, 109, 803-812.	0.9	18
88	Sudden Infant Death Syndrome: The Role of Central Chemosensitivity. <i>Neuroscientist</i> , 1997, 3, 3-7.	2.6	17
89	Modulation of Respiratory Activity by Hypocretin-1 (Orexin A) In Situ and In Vitro. <i>Advances in Experimental Medicine and Biology</i> , 2010, 669, 109-113.	0.8	17
90	Association of Peri-ictal Brainstem Posturing With Seizure Severity and Breathing Compromise in Patients With Generalized Convulsive Seizures. <i>Neurology</i> , 2021, 96, e352-e365.	1.5	16

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91	Medullary respiratory neurons in the guinea pig: localization and firing patterns. <i>Brain Research</i> , 1992, 591, 79-87.	1.1	15
92	Response to Comment on "Impaired Respiratory and Body Temperature Control Upon Acute Serotonergic Neuron Inhibition". <i>Science</i> , 2012, 337, 646-647.	6.0	13
93	Unexpected Death of a Child with Complex Febrile Seizures"Pathophysiology Similar to Sudden Unexpected Death in Epilepsy?. <i>Frontiers in Neurology</i> , 2017, 8, 21.	1.1	12
94	Seizure Clusters, Seizure Severity Markers, and SUDEP Risk. <i>Frontiers in Neurology</i> , 2021, 12, 643916.	1.1	12
95	Learning to take a deep breath"with BDNF. <i>Nature Medicine</i> , 2004, 10, 25-26.	15.2	11
96	Functional link between the hypocretin and serotonin systems in the neural control of breathing and central chemosensitivity. <i>Journal of Neurophysiology</i> , 2015, 114, 381-389.	0.9	10
97	Development of brainstem 5-HT _{1A} receptor binding sites in serotonin-deficient mice. <i>Journal of Neurochemistry</i> , 2013, 126, 749-757.	2.1	8
98	Tolerability of a comprehensive cardiorespiratory monitoring protocol in an epilepsy monitoring unit. <i>Epilepsy and Behavior</i> , 2018, 85, 173-176.	0.9	8
99	Perinatal Nicotine Reduces Chemosensitivity of Medullary 5-HT Neurons after Maturation in Culture. <i>Neuroscience</i> , 2020, 446, 80-93.	1.1	7
100	Hypercapnic ventilatory response in epilepsy patients treated with VNS: A case-control study. <i>Epilepsia</i> , 2021, 62, e140-e146.	2.6	6
101	Automated Analysis of Risk Factors for Postictal Generalized EEG Suppression. <i>Frontiers in Neurology</i> , 2021, 12, 669517.	1.1	5
102	A ketogenic diet protects DBA/1 and Scn1a mice against seizure-induced respiratory arrest independent of ketosis. <i>Epilepsy and Behavior</i> , 2021, 124, 108334.	0.9	5
103	Contribution of chemosensitive serotonergic neurons to interactions between the sleep-wake cycle and respiratory control. , 2008, , 529-554.		5
104	A dietary supplement for SUDEP prevention?. <i>Nature Reviews Neurology</i> , 2016, 12, 495-496.	4.9	4
105	Effect of Thoracic Epidural Anesthesia in a Rat Model of Phrenic Motor Inhibition after Upper Abdominal Surgery. <i>Anesthesiology</i> , 2018, 129, 791-807.	1.3	4
106	Adult Mice with 5-HT Neuron-specific Knockout of Lmx1b Exhibit an Attenuated Hypercapnic Ventilatory Response. <i>FASEB Journal</i> , 2006, 20, A785.	0.2	4
107	Respiratory plasticity in sleep apnoea: should it be harnessed or restrained?. <i>Journal of Physiology</i> , 2010, 588, 3-4.	1.3	2
108	5-HT neurons and central CO ₂ chemoreception. <i>Handbook of Behavioral Neuroscience</i> , 2020, 31, 377-391.	0.7	2

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109	Quantification of the response of rat medullary raphe neurones to independent changes in pH _o and PCO ₂ . , 2002, 540, 951.		2
110	Changes in glucose do not alter baseline firing rate or chemosensitivity of serotonin neurons cultured from the medullary raphe. Respiratory Physiology and Neurobiology, 2007, 157, 235-241.	0.7	1
111	Omega-3 fatty acids and SUDEP prevention – Authors’ reply. Lancet Neurology, The, 2016, 15, 1303-1304.	4.9	1
112	Summary of the PAME 2018 Meeting. Epilepsy Currents, 2018, 18, 398-399.	0.4	1
113	Limbic system involvement in modulation of breathing during seizures and arousal. FASEB Journal, 2021, 35, .	0.2	1
114	832: Alleviation of Opioid-Induced Respiratory Depression by 5-HT ₇ Agonism. Critical Care Medicine, 2021, 49, 413-413.	0.4	1
115	5-HT Neurons and Central CO ₂ Chemoreception. Handbook of Behavioral Neuroscience, 2010, , 293-305.	0.7	0
116	Sleep apnea, stroke risk factors, and the arousal response. , 0, , 64-79.		0
117	Forebrain Response to Breathing in Humans during Awake and Unconscious States. FASEB Journal, 2021, 35, .	0.2	0
118	Relationship between dendrites of serotonin neurons and large midline vessels of the medulla.. FASEB Journal, 2006, 20, A785.	0.2	0
119	Serotonin (5-HT) facilitates ventilation via distinct 5HT ₂ and 5HT ₄ receptor-mediated mechanisms in situ, in the arterially perfused rat brainstem preparation. FASEB Journal, 2008, 22, 1172.9.	0.2	0
120	Carotid body dysfunction and altered oxygen homeostasis in models of Parkinson's disease. FASEB Journal, 2008, 22, 1231.5.	0.2	0
121	Prp57 Transgenic Mice Express Multiple pH Sensitive Ion Channels in CO ₂ /H ⁺ Sensitive GFP ⁺ Locus Coeruleus Neurons. FASEB Journal, 2008, 22, 174-174.	0.2	0
122	Neonatal mice lacking serotonin neurons have high mortality that is worsened on exposure to hypoxia and hypercapnia.. FASEB Journal, 2010, 24, 613.10.	0.2	0
123	Modulation of neuroventilation and central chemosensitivity: serotonergic and hypocretinergic effects. FASEB Journal, 2010, 24, 1026.5.	0.2	0
124	GABAergic neurons in the medullary raphe possess network independent chemosensitivity in situ. FASEB Journal, 2012, 26, 894.13.	0.2	0
125	Isoflurane stimulates firing frequency and masks chemosensitivity of CO ₂ inhibited GABAergic neurons in situ. FASEB Journal, 2013, 27, 1137.10.	0.2	0
126	Sleep and Stroke. , 2015, , 255-269.		0