

Muriel Thoby-Brisson

List of Publications by Year in descending order

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56
papers

3,042
citations

201674

27
h-index

189892

50
g-index

64
all docs

64
docs citations

64
times ranked

1812
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconfiguration of the neural network controlling multiple breathing patterns: eupnea, sighs and gasps. <i>Nature Neuroscience</i> , 2000, 3, 600-607.	14.8	499
2	Hindbrain interneurons and axon guidance signaling critical for breathing. <i>Nature Neuroscience</i> , 2010, 13, 1066-1074.	14.8	206
3	Genetic identification of an embryonic parafacial oscillator coupling to the pre-Bötzing complex. <i>Nature Neuroscience</i> , 2009, 12, 1028-1035.	14.8	186
4	Vesicular Glutamate Transporter 2 Is Required for Central Respiratory Rhythm Generation But Not for Locomotor Central Pattern Generation. <i>Journal of Neuroscience</i> , 2006, 26, 12294-12307.	3.6	183
5	Identification of Two Types of Inspiratory Pacemaker Neurons in the Isolated Respiratory Neural Network of Mice. <i>Journal of Neurophysiology</i> , 2001, 86, 104-112.	1.8	173
6	Breathing without CO ₂ Chemosensitivity in Conditional <i>Phox2b</i> Mutants. <i>Journal of Neuroscience</i> , 2011, 31, 12880-12888.	3.6	149
7	Emergence of the Pre-Bötzing Respiratory Rhythm Generator in the Mouse Embryo. <i>Journal of Neuroscience</i> , 2005, 25, 4307-4318.	3.6	124
8	Differential Modulation of Neural Network and Pacemaker Activity Underlying Eupnea and Sigh-Breathing Activities. <i>Journal of Neurophysiology</i> , 2008, 99, 2114-2125.	1.8	124
9	Mice Lacking Brain/Kidney Phosphate-Activated Glutaminase Have Impaired Glutamatergic Synaptic Transmission, Altered Breathing, Disorganized Goal-Directed Behavior and Die Shortly after Birth. <i>Journal of Neuroscience</i> , 2006, 26, 4660-4671.	3.6	117
10	Defective Respiratory Rhythmogenesis and Loss of Central Chemosensitivity in <i>Phox2b</i> Mutants Targeting Retrotrapezoid Nucleus Neurons. <i>Journal of Neuroscience</i> , 2009, 29, 14836-14846.	3.6	115
11	The Role of the Hyperpolarization-Activated Current in Modulating Rhythmic Activity in the Isolated Respiratory Network of Mice. <i>Journal of Neuroscience</i> , 2000, 20, 2994-3005.	3.6	114
12	Neuromodulatory Inputs Maintain Expression of a Lobster Motor Pattern-Generating Network in a Modulation-Dependent State: Evidence from Long-Term Decentralization <i>In Vitro</i> . <i>Journal of Neuroscience</i> , 1998, 18, 2212-2225.	3.6	99
13	Role of Inspiratory Pacemaker Neurons in Mediating the Hypoxic Response of the Respiratory Network <i>In Vitro</i> . <i>Journal of Neuroscience</i> , 2000, 20, 5858-5866.	3.6	92
14	Expression of Functional Tyrosine Kinase B Receptors by Rhythmically Active Respiratory Neurons in the Pre-Bötzing Complex of Neonatal Mice. <i>Journal of Neuroscience</i> , 2003, 23, 7685-7689.	3.6	87
15	Long-Term Neuromodulatory Regulation of a Motor Pattern-Generating Network: Maintenance of Synaptic Efficacy and Oscillatory Properties. <i>Journal of Neurophysiology</i> , 2002, 88, 2942-2953.	1.8	53
16	Early development of respiratory rhythm generation in mouse and chick. <i>Respiratory Physiology and Neurobiology</i> , 2002, 131, 5-13.	1.6	45
17	Teashirt 3 Regulates Development of Neurons Involved in Both Respiratory Rhythm and Airflow Control. <i>Journal of Neuroscience</i> , 2010, 30, 9465-9476.	3.6	43
18	Developmental gene control of brainstem function: views from the embryo. <i>Progress in Biophysics and Molecular Biology</i> , 2004, 84, 89-106.	2.9	39

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19	Phox2b, congenital central hypoventilation syndrome and the control of respiration. <i>Seminars in Cell and Developmental Biology</i> , 2010, 21, 814-822.	5.0	37
20	Transition to Endogenous Bursting After Long-Term Decentralization Requires De Novo Transcription in a Critical Time Window. <i>Journal of Neurophysiology</i> , 2000, 84, 596-599.	1.8	36
21	From Hindbrain Segmentation to Breathing After Birth: Developmental Patterning in Rhombomeres 3 and 4. <i>Molecular Neurobiology</i> , 2003, 28, 277-294.	4.0	35
22	Remote Control of Respiratory Neural Network by Spinal Locomotor Generators. <i>PLoS ONE</i> , 2014, 9, e89670.	2.5	35
23	Development of pacemaker properties and rhythmogenic mechanisms in the mouse embryonic respiratory network. <i>ELife</i> , 2016, 5, .	6.0	35
24	Embryonic emergence of the respiratory rhythm generator. <i>Respiratory Physiology and Neurobiology</i> , 2009, 168, 86-91.	1.6	32
25	Brain-derived neurotrophic factor enhances fetal respiratory rhythm frequency in the mouse pre-Bötzinger complex <i>in vitro</i> . <i>European Journal of Neuroscience</i> , 2008, 28, 510-520.	2.6	31
26	Prenatal development of central rhythm generation. <i>Respiratory Physiology and Neurobiology</i> , 2011, 178, 146-155.	1.6	31
27	Respiratory circuits: development, function and models. <i>Current Opinion in Neurobiology</i> , 2012, 22, 676-685.	4.2	30
28	Sigh and Eupnea Rhythmogenesis Involve Distinct Interconnected Subpopulations: A Combined Computational and Experimental Study. <i>ENeuro</i> , 2015, 2, ENEURO.0074-14.2015.	1.9	28
29	Neural tube patterning by Krox20 and emergence of a respiratory control. <i>Respiratory Physiology and Neurobiology</i> , 2005, 149, 63-72.	1.6	27
30	Anatomical and functional development of the pre-Bötzinger complex in prenatal rodents. <i>Journal of Applied Physiology</i> , 2008, 104, 1213-1219.	2.5	27
31	Developmental basis of the rostro-caudal organization of the brainstem respiratory rhythm generator. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 2469-2476.	4.0	27
32	Emergence of sigh rhythmogenesis in the embryonic mouse. <i>Journal of Physiology</i> , 2014, 592, 2169-2181.	2.9	25
33	Ontogeny of central rhythm generation in chicks and rodents. <i>Respiratory Physiology and Neurobiology</i> , 2006, 154, 37-46.	1.6	23
34	Role of the K ⁺ -Cl ⁻ Cotransporter KCC2a Isoform in Mammalian Respiration at Birth. <i>ENeuro</i> , 2018, 5, ENEURO.0264-18.2018.	1.9	19
35	Developmental molecular switches regulating breathing patterns in CNS. <i>Respiratory Physiology and Neurobiology</i> , 2003, 135, 121-132.	1.6	17
36	Acute exposure to zinc oxide nanoparticles critically disrupts operation of the respiratory neural network in neonatal rat. <i>NeuroToxicology</i> , 2018, 67, 150-160.	3.0	13

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37	Obstructive Apneas in a Mouse Model of Congenital Central Hypoventilation Syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 1200-1210.	5.6	11
38	Generation of BAC Transgenic Tadpoles Enabling Live Imaging of Motoneurons by Using the Urotensin II-Related Peptide (ust2b) Gene as a Driver. <i>PLoS ONE</i> , 2015, 10, e0117370.	2.5	10
39	Modulation of respiratory network activity by forelimb and hindlimb locomotor generators. <i>European Journal of Neuroscience</i> , 2020, 52, 3181-3195.	2.6	10
40	Functional limb muscle innervation prior to cholinergic transmitter specification during early metamorphosis in <i>Xenopus</i> . <i>ELife</i> , 2018, 7, .	6.0	9
41	Reconfiguration of the Central Respiratory Network Under Normoxic and Hypoxic Conditions. <i>Advances in Experimental Medicine and Biology</i> , 2001, 499, 171-178.	1.6	7
42	Abnormal inspiratory depth in <i>Phox2a</i> haploinsufficient mice. <i>Neuroscience</i> , 2007, 145, 384-392.	2.3	7
43	Brainstem Respiratory Oscillators Develop Independently of Neuronal Migration Defects in the <i>Wnt/PCP</i> Mouse Mutant <i>looptail</i> . <i>PLoS ONE</i> , 2012, 7, e31140.	2.5	6
44	Mechanisms Underlying Adaptation of Respiratory Network Activity to Modulatory Stimuli in the Mouse Embryo. <i>Neural Plasticity</i> , 2016, 2016, 1-10.	2.2	6
45	BDNF Preferentially Targets Membrane Properties of Rhythmically Active Neurons in the pre-Bötzing Complex in Neonatal Mice. <i>Advances in Experimental Medicine and Biology</i> , 2004, 551, 115-120.	1.6	4
46	Genetic factors determining the functional organization of neural circuits controlling rhythmic movements. <i>Progress in Brain Research</i> , 2010, 187, 39-46.	1.4	4
47	The pre-Bötzing oscillator in the mouse embryo. <i>Journal of Physiology (Paris)</i> , 2006, 100, 284-289.	2.1	3
48	Acute role of the brain-derived neurotrophic factor (BDNF) on the respiratory neural network activity in mice in vitro. <i>Journal of Physiology (Paris)</i> , 2006, 100, 290-296.	2.1	3
49	Neural mechanisms for sigh generation during prenatal development. <i>Journal of Neurophysiology</i> , 2018, 120, 1162-1172.	1.8	3
50	A Rodent Model of Mild Neonatal Hypoxic Ischemic Encephalopathy. <i>Frontiers in Neurology</i> , 2021, 12, 637947.	2.4	3
51	Emergence of neural net function during brain development. <i>Journal of Physiology (Paris)</i> , 2003, 97, 1-3.	2.1	0
52	Title is missing!. <i>Journal of Physiology (Paris)</i> , 2006, 100, 237-242.	2.1	0
53	Role of Na ⁺ and Ca ²⁺ currents in computational model of in-vitro sigh generation. <i>BMC Neuroscience</i> , 2015, 16, .	1.9	0
54	The embryonic development of hindbrain respiratory networks is unaffected by mutation of the planar polarity protein <i>Scribble</i> . <i>Neuroscience</i> , 2017, 357, 160-171.	2.3	0

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55	Synergistic interaction between sensory inputs and propriospinal signalling underlying quadrupedal locomotion. <i>Journal of Physiology</i> , 2021, 599, 4477-4496.	2.9	0
56	Genes and development of respiratory rhythm generation. , 2008, , 169-189.		0