

# Carlos B Mantilla

## List of Publications by Year in descending order

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205  
papers

6,865  
citations

50170

46  
h-index

79541

73  
g-index

205  
all docs

205  
docs citations

205  
times ranked

5471  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Neurolytic Celiac Plexus Block on Pain Relief, Quality of Life, and Survival in Patients With Unresectable Pancreatic Cancer. <i>JAMA - Journal of the American Medical Association</i> , 2004, 291, 1092.	3.8	451
2	Frequency of Myocardial Infarction, Pulmonary Embolism, Deep Venous Thrombosis, and Death following Primary Hip or Knee Arthroplasty. <i>Anesthesiology</i> , 2002, 96, 1140-1146.	1.3	320
3	Smoking and Pain. <i>Anesthesiology</i> , 2010, 113, 977-992.	1.3	245
4	Risk Factors for Clinically Relevant Pulmonary Embolism and Deep Venous Thrombosis in Patients Undergoing Primary Hip or Knee Arthroplasty. <i>Anesthesiology</i> , 2003, 99, 552-560.	1.3	205
5	Anaesthetic care of patients undergoing primary hip and knee arthroplasty: consensus recommendations from the International Consensus on Anaesthesia-Related Outcomes after Surgery group (ICAROS) based on a systematic review and meta-analysis. <i>British Journal of Anaesthesia</i> , 2019, 123, 269-287.	1.5	186
6	Neuraxial vs general anaesthesia for total hip and total knee arthroplasty: a systematic review of comparative-effectiveness research. <i>British Journal of Anaesthesia</i> , 2016, 116, 163-176.	1.5	181
7	Mechanism of Endothelial Dysfunction in Apolipoprotein E-deficient Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2001, 21, 1017-1022.	1.1	153
8	Falls and major orthopaedic surgery with peripheral nerve blockade: a systematic review and meta-analysis. <i>British Journal of Anaesthesia</i> , 2013, 110, 518-528.	1.5	131
9	Diaphragm motor unit recruitment in rats. <i>Respiratory Physiology and Neurobiology</i> , 2010, 173, 101-106.	0.7	115
10	Retrograde labeling of phrenic motoneurons by intrapleural injection. <i>Journal of Neuroscience Methods</i> , 2009, 182, 244-249.	1.3	107
11	Diaphragm muscle sarcopenia in aging mice. <i>Experimental Gerontology</i> , 2013, 48, 881-887.	1.2	107
12	Motoneuron BDNF/TrkB signaling enhances functional recovery after cervical spinal cord injury. <i>Experimental Neurology</i> , 2013, 247, 101-109.	2.0	92
13	Phrenic motoneuron morphology during rapid diaphragm muscle growth. <i>Journal of Applied Physiology</i> , 2000, 89, 563-572.	1.2	85
14	Perioperative Nerve Injury after Total Knee Arthroplasty. <i>Anesthesiology</i> , 2011, 114, 311-317.	1.3	82
15	Neurotrophins improve neuromuscular transmission in the adult rat diaphragm. <i>Muscle and Nerve</i> , 2004, 29, 381-386.	1.0	81
16	Neurotrophins in lung health and disease. <i>Expert Review of Respiratory Medicine</i> , 2010, 4, 395-411.	1.0	80
17	The Role of Cyclic-ADP-Ribose-Signaling Pathway in Oxytocin-Induced Ca <sup>2+</sup> Transients in Human Myometrium Cells. <i>Endocrinology</i> , 2004, 145, 881-889.	1.4	78
18	Peripheral nerve block anesthesia/analgesia for patients undergoing primary hip and knee arthroplasty: recommendations from the International Consensus on Anesthesia-Related Outcomes after Surgery (ICAROS) group based on a systematic review and meta-analysis of current literature. <i>Regional Anesthesia and Pain Medicine</i> , 2021, 46, 971-985.	1.1	77

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19	Phrenic motor unit recruitment during ventilatory and non-ventilatory behaviors. <i>Respiratory Physiology and Neurobiology</i> , 2011, 179, 57-63.	0.7	75
20	Functional impact of sarcopenia in respiratory muscles. <i>Respiratory Physiology and Neurobiology</i> , 2016, 226, 137-146.	0.7	75
21	A Three-arm Randomized Clinical Trial Comparing Continuous Femoral Plus Single-injection Sciatic Peripheral Nerve Blocks <i>versus</i> Periarticular Injection with Ropivacaine or Liposomal Bupivacaine for Patients Undergoing Total Knee Arthroplasty. <i>Anesthesiology</i> , 2017, 126, 1139-1150.	1.3	74
22	Preoperative Gabapentin for Acute Post-thoracotomy Analgesia: A Randomized, Double-blind, Active Placebo-controlled Study. <i>Pain Practice</i> , 2012, 12, 175-183.	0.9	73
23	Localized Delivery of Brain-Derived Neurotrophic Factor-Expressing Mesenchymal Stem Cells Enhances Functional Recovery following Cervical Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2015, 32, 185-193.	1.7	72
24	Breathing: Motor Control of Diaphragm Muscle. <i>Physiology</i> , 2018, 33, 113-126.	1.6	71
25	Mechanical Properties of Respiratory Muscles. , 2013, 3, 1533-1567.		70
26	Synaptic vesicle pools at diaphragm neuromuscular junctions vary with motoneuron soma, not axon terminal, inactivity. <i>Neuroscience</i> , 2007, 146, 178-189.	1.1	67
27	Denervation effects on myonuclear domain size of rat diaphragm fibers. <i>Journal of Applied Physiology</i> , 2006, 100, 1617-1622.	1.2	66
28	Invited Review: Mechanisms underlying motor unit plasticity in the respiratory system. <i>Journal of Applied Physiology</i> , 2003, 94, 1230-1241.	1.2	64
29	Structure-activity relationships in rodent diaphragm muscle fibers vs. neuromuscular junctions. <i>Respiratory Physiology and Neurobiology</i> , 2012, 180, 88-96.	0.7	63
30	Chronic Postthoracotomy Pain and Health-Related Quality of Life. <i>Annals of Thoracic Surgery</i> , 2012, 93, 1242-1247.	0.7	62
31	Neurotrophin effects on intracellular Ca <sup>2+</sup> and force in airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2006, 291, L447-L456.	1.3	60
32	Systems biology of skeletal muscle: fiber type as an organizing principle. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2012, 4, 457-473.	6.6	60
33	Recruitment of rat diaphragm motor units across motor behaviors with different levels of diaphragm activation. <i>Journal of Applied Physiology</i> , 2014, 117, 1308-1316.	1.2	59
34	Targeted Delivery of TrkB Receptor to Phrenic Motoneurons Enhances Functional Recovery of Rhythmic Phrenic Activity after Cervical Spinal Hemisection. <i>PLoS ONE</i> , 2013, 8, e64755.	1.1	58
35	Functional impact of diaphragm muscle sarcopenia in both male and female mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 309, L46-L52.	1.3	58
36	Phrenic motor neuron loss in aged rats. <i>Journal of Neurophysiology</i> , 2018, 119, 1852-1862.	0.9	57

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37	Impact of Frailty on Outcomes After Primary and Revision Total Hip Arthroplasty. <i>Journal of Arthroplasty</i> , 2019, 34, 56-64.e5.	1.5	57
38	Ageing and neurotrophic signalling effects on diaphragm neuromuscular function. <i>Journal of Physiology</i> , 2015, 593, 431-440.	1.3	56
39	Perioperative Nerve Injury after Total Hip Arthroplasty. <i>Anesthesiology</i> , 2011, 115, 1172-1178.	1.3	56
40	Associations between Heat Pain Perception and Opioid Dose among Patients with Chronic Pain Undergoing Opioid Tapering. <i>Pain Medicine</i> , 2010, 11, 1587-1598.	0.9	55
41	Prolonged C <sub>2</sub> spinal hemisection-induced inactivity reduces diaphragm muscle specific force with modest, selective atrophy of type Ix and/or IIb fibers. <i>Journal of Applied Physiology</i> , 2013, 114, 380-386.	1.2	55
42	Chronic assessment of diaphragm muscle EMG activity across motor behaviors. <i>Respiratory Physiology and Neurobiology</i> , 2011, 177, 176-182.	0.7	54
43	Continuous Posterior Lumbar Plexus Nerve Block Versus Periarticular Injection with Ropivacaine or Liposomal Bupivacaine for Total Hip Arthroplasty. <i>Journal of Bone and Joint Surgery - Series A</i> , 2017, 99, 1836-1845.	1.4	54
44	Neuromuscular adaptations to respiratory muscle inactivity. <i>Respiratory Physiology and Neurobiology</i> , 2009, 169, 133-140.	0.7	51
45	The effect of denervation on protein synthesis and degradation in adult rat diaphragm muscle. <i>Journal of Applied Physiology</i> , 2009, 107, 438-444.	1.2	50
46	Perioperative Nerve Injury After Total Shoulder Arthroplasty. <i>Regional Anesthesia and Pain Medicine</i> , 2012, 37, 490-494.	1.1	50
47	Impact of aging on diaphragm muscle function in male and female Fischer 344 rats. <i>Physiological Reports</i> , 2018, 6, e13786.	0.7	50
48	Phrenic motoneuron expression of serotonergic and glutamatergic receptors following upper cervical spinal cord injury. <i>Experimental Neurology</i> , 2012, 234, 191-199.	2.0	48
49	Non-stationarity and power spectral shifts in EMG activity reflect motor unit recruitment in rat diaphragm muscle. <i>Respiratory Physiology and Neurobiology</i> , 2013, 185, 400-409.	0.7	48
50	Denervation-induced changes in myosin heavy chain expression in the rat diaphragm muscle. <i>Journal of Applied Physiology</i> , 2003, 95, 611-619.	1.2	47
51	Synaptic Vesicle Distribution and Release at Rat Diaphragm Neuromuscular Junctions. <i>Journal of Neurophysiology</i> , 2007, 98, 478-487.	0.9	47
52	TrkB kinase activity maintains synaptic function and structural integrity at adult neuromuscular junctions. <i>Journal of Applied Physiology</i> , 2014, 117, 910-920.	1.2	47
53	Key aspects of phrenic motoneuron and diaphragm muscle development during the perinatal period. <i>Journal of Applied Physiology</i> , 2008, 104, 1818-1827.	1.2	46
54	Risk for perioperative myocardial infarction and mortality in patients undergoing hip or knee arthroplasty: the role of anemia. <i>Transfusion</i> , 2011, 51, 82-91.	0.8	46

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55	TrkB kinase activity is critical for recovery of respiratory function after cervical spinal cord hemisection. <i>Experimental Neurology</i> , 2014, 261, 190-195.	2.0	44
56	Analysis of muscle fiber clustering in the diaphragm muscle of sarcopenic mice. <i>Muscle and Nerve</i> , 2015, 52, 76-82.	1.0	44
57	Role of neurotrophins in recovery of phrenic motor function following spinal cord injury. <i>Respiratory Physiology and Neurobiology</i> , 2009, 169, 218-225.	0.7	43
58	Diaphragm neuromuscular transmission failure in aged rats. <i>Journal of Neurophysiology</i> , 2019, 122, 93-104.	0.9	42
59	Respiratory muscle plasticity. <i>Respiratory Physiology and Neurobiology</i> , 2005, 147, 235-251.	0.7	41
60	Diaphragm muscle function following midcervical contusion injury in rats. <i>Journal of Applied Physiology</i> , 2019, 126, 221-230.	1.2	40
61	Neuregulin-1 at synapses on phrenic motoneurons. <i>Journal of Comparative Neurology</i> , 2010, 518, 4213-4225.	0.9	39
62	Have Bilateral Total Knee Arthroplasties Become Safer?: A Population-Based Trend Analysis. <i>Clinical Orthopaedics and Related Research</i> , 2013, 471, 17-25.	0.7	39
63	Fatigue failure of the bolts connecting a Francis turbine with the shaft. <i>Engineering Failure Analysis</i> , 2018, 90, 1-13.	1.8	39
64	The novel TrkB receptor agonist 7,8-dihydroxyflavone enhances neuromuscular transmission. <i>Muscle and Nerve</i> , 2012, 45, 274-276.	1.0	37
65	Diaphragm electromyographic activity following unilateral midcervical contusion injury in rats. <i>Journal of Neurophysiology</i> , 2017, 117, 545-555.	0.9	37
66	Safety factor for neuromuscular transmission at type-identified diaphragm fibers. <i>Muscle and Nerve</i> , 2007, 35, 800-803.	1.0	36
67	Cricoid pressure training using simulation: a systematic review and meta-analysis. <i>British Journal of Anaesthesia</i> , 2013, 111, 338-346.	1.5	36
68	Mechanisms underlying myosin heavy chain expression during development of the rat diaphragm muscle. <i>Journal of Applied Physiology</i> , 2006, 101, 1546-1555.	1.2	34
69	Developmental effects on myonuclear domain size of rat diaphragm fibers. <i>Journal of Applied Physiology</i> , 2008, 104, 787-794.	1.2	34
70	The Impact of Midcervical Contusion Injury on Diaphragm Muscle Function. <i>Journal of Neurotrauma</i> , 2016, 33, 500-509.	1.7	34
71	Ageing-related changes in respiratory system mechanics and morphometry in mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 311, L167-L176.	1.3	34
72	TrkB gene therapy by adeno-associated virus enhances recovery after cervical spinal cord injury. <i>Experimental Neurology</i> , 2016, 276, 31-40.	2.0	34

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73	Impact of sarcopenia on diaphragm muscle fatigue. <i>Experimental Physiology</i> , 2019, 104, 1090-1099.	0.9	34
74	BDNF effects on functional recovery across motor behaviors after cervical spinal cord injury. <i>Journal of Neurophysiology</i> , 2017, 117, 537-544.	0.9	33
75	Role of TrkB kinase activity in aging diaphragm neuromuscular junctions. <i>Experimental Gerontology</i> , 2015, 72, 184-191.	1.2	32
76	Synaptic vesicle cycling at type-identified diaphragm neuromuscular junctions. <i>Muscle and Nerve</i> , 2004, 30, 774-783.	1.0	31
77	Intracellular signaling pathways regulating net protein balance following diaphragm muscle denervation. <i>American Journal of Physiology - Cell Physiology</i> , 2011, 300, C318-C327.	2.1	31
78	Neuregulin-dependent protein synthesis in C2C12 myotubes and rat diaphragm muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 291, C1056-C1061.	2.1	30
79	Effect of Mechanical Ventilation on the Diaphragm. <i>New England Journal of Medicine</i> , 2008, 358, 1392-1394.	13.9	30
80	Functional recovery after cervical spinal cord injury: Role of neurotrophin and glutamatergic signaling in phrenic motoneurons. <i>Respiratory Physiology and Neurobiology</i> , 2016, 226, 128-136.	0.7	30
81	[17] Volume measurements in confocal microscopy. <i>Methods in Enzymology</i> , 1999, 307, 296-315.	0.4	29
82	Impact of unilateral denervation on transdiaphragmatic pressure. <i>Respiratory Physiology and Neurobiology</i> , 2015, 210, 14-21.	0.7	29
83	Diaphragm muscle sarcopenia in Fischer 344 and Brown Norway rats. <i>Experimental Physiology</i> , 2016, 101, 883-894.	0.9	29
84	Intrathecal Hydromorphone and Morphine for Postcesarean Delivery Analgesia: Determination of the ED90 Using a Sequential Allocation Biased-Coin Method. <i>Anesthesia and Analgesia</i> , 2016, 123, 690-697.	1.1	29
85	Trophic factor expression in phrenic motor neurons. <i>Respiratory Physiology and Neurobiology</i> , 2008, 164, 252-262.	0.7	28
86	Novel method for transdiaphragmatic pressure measurements in mice. <i>Respiratory Physiology and Neurobiology</i> , 2013, 188, 56-59.	0.7	28
87	Convergence of Pattern Generator Outputs on a Common Mechanism of Diaphragm Motor Unit Recruitment. <i>Progress in Brain Research</i> , 2014, 209, 309-329.	0.9	28
88	Motoneuron glutamatergic receptor expression following recovery from cervical spinal hemisection. <i>Journal of Comparative Neurology</i> , 2017, 525, 1192-1205.	0.9	28
89	EMG-Based Detection of Inspiration in the Rat Diaphragm Muscle. , 2006, 2006, 1204-7.		27
90	Influence of corticosteroids on myonuclear domain size in the rat diaphragm muscle. <i>Journal of Applied Physiology</i> , 2004, 97, 1715-1722.	1.2	26

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91	Respiratory Muscle Plasticity. , 2015, 2, 1441-1462.		26
92	A novel approach for targeted delivery to motoneurons using cholera toxin-B modified protocells. Journal of Neuroscience Methods, 2016, 273, 160-174.	1.3	26
93	Compensatory effects following unilateral diaphragm paralysis. Respiratory Physiology and Neurobiology, 2017, 246, 39-46.	0.7	26
94	Satellite cell addition is/is not obligatory for skeletal muscle hypertrophy. Journal of Applied Physiology, 2007, 103, 1104-1106.	1.2	25
95	Aging reduces succinate dehydrogenase activity in rat type IIX/IIb diaphragm muscle fibers. Journal of Applied Physiology, 2020, 128, 70-77.	1.2	24
96	Retrospective Derivation and Validation of an Automated Electronic Search Algorithm to Identify Post operative Cardiovascular and Thromboembolic Complications. Applied Clinical Informatics, 2015, 06, 565-576.	0.8	22
97	Chronic TrkB agonist treatment in old age does not mitigate diaphragm neuromuscular dysfunction. Physiological Reports, 2017, 5, e13103.	0.7	21
98	Correlation of respiratory activity of contralateral diaphragm muscles for evaluation of recovery following hemiparesis. , 2009, 2009, 404-7.		20
99	Associations between Heat Pain Perception and Pain Severity among Patients with Chronic Pain. Pain Medicine, 2010, 11, 1554-1563.	0.9	20
100	Impact of diaphragm muscle fiber atrophy on neuromotor control. Respiratory Physiology and Neurobiology, 2013, 189, 411-418.	0.7	20
101	Impaired Autophagy in Motor Neurons: A Final Common Mechanism of Injury and Death. Physiology, 2018, 33, 211-224.	1.6	20
102	Heterogeneous glutamatergic receptor mRNA expression across phrenic motor neurons in rats. Journal of Neurochemistry, 2020, 153, 586-598.	2.1	20
103	Impairment of diaphragm muscle force and neuromuscular transmission after normothermic cardiopulmonary bypass: effect of low-dose inhaled CO. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 298, R784-R789.	0.9	19
104	Glutamatergic input varies with phrenic motor neuron size. Journal of Neurophysiology, 2019, 122, 1518-1529.	0.9	19
105	Functional Measurement of Respiratory Muscle Motor Behaviors Using Transdiaphragmatic Pressure. Methods in Molecular Biology, 2016, 1460, 309-319.	0.4	18
106	Frailty Index Is Associated With Periprosthetic Fracture and Mortality After Total Knee Arthroplasty. Orthopedics, 2019, 42, 335-343.	0.5	18
107	Acute intrathecal BDNF enhances functional recovery after cervical spinal cord injury in rats. Journal of Neurophysiology, 2021, 125, 2158-2165.	0.9	17
108	Regional differences in serotonergic input to canine parasternal intercostal motoneurons. Journal of Applied Physiology, 2000, 88, 1581-1589.	1.2	16

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109	Optimizing conditions and avoiding pitfalls for prolonged axonal tracing with carbocyanine dyes in fixed rat spinal cords. <i>Journal of Neuroscience Methods</i> , 2006, 154, 256-263.	1.3	16
110	Reduced Ribosomal Protein S6 Phosphorylation After Progressive Resistance Exercise in Growing Adolescent Rats. <i>Journal of Strength and Conditioning Research</i> , 2012, 26, 1657-1666.	1.0	16
111	Phrenic motoneuron structural plasticity across models of diaphragm muscle paralysis. <i>Journal of Comparative Neurology</i> , 2018, 526, 2973-2983.	0.9	16
112	Disproportionate loss of excitatory inputs to smaller phrenic motor neurons following cervical spinal hemisection. <i>Journal of Physiology</i> , 2020, 598, 4693-4711.	1.3	16
113	Neuromotor control in chronic obstructive pulmonary disease. <i>Journal of Applied Physiology</i> , 2013, 114, 1246-1252.	1.2	15
114	Uptake and intracellular fate of cholera toxin subunit b-modified mesoporous silica nanoparticle-supported lipid bilayers (aka protocells) in motoneurons. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 661-672.	1.7	15
115	Frequency-dependent lipid raft uptake at rat diaphragm muscle axon terminals. <i>Muscle and Nerve</i> , 2019, 59, 611-618.	1.0	15
116	Age-related impairment of autophagy in cervical motor neurons. <i>Experimental Gerontology</i> , 2021, 144, 111193.	1.2	15
117	Regulation of neuromuscular transmission by neurotrophins. <i>Acta Physiologica Sinica</i> , 2003, 55, 617-24.	0.5	15
118	Dual-Epidural Catheter Technique and Perioperative Outcomes After Ivor-Lewis Esophagectomy. <i>Regional Anesthesia and Pain Medicine</i> , 2013, 38, 3-8.	1.1	14
119	Diaphragm muscle sarcopenia into very old age in mice. <i>Physiological Reports</i> , 2020, 8, e14305.	0.7	14
120	Nonalcoholic Steatohepatitis in Bariatric Patients with a Diagnosis of Obstructive Sleep Apnea. <i>Obesity Facts</i> , 2012, 5, 587-596.	1.6	13
121	Dynamics and coexistence in a system with intraguild mutualism. <i>Ecological Complexity</i> , 2013, 14, 64-74.	1.4	13
122	Semi-automated assessment of transdiaphragmatic pressure variability across motor behaviors. <i>Respiratory Physiology and Neurobiology</i> , 2015, 215, 73-81.	0.7	13
123	Impact of glutamatergic and serotonergic neurotransmission on diaphragm muscle activity after cervical spinal hemisection. <i>Journal of Neurophysiology</i> , 2017, 118, 1732-1738.	0.9	13
124	Neuraxial anesthesia is associated with improved survival after total joint arthroplasty depending on frailty: a cohort study. <i>Regional Anesthesia and Pain Medicine</i> , 2020, 45, 405-411.	1.1	12
125	Quantifying mitochondrial volume density in phrenic motor neurons. <i>Journal of Neuroscience Methods</i> , 2021, 353, 109093.	1.3	12
126	Differential Inhibition of Neuronal Na <sup>+</sup> -Ca <sup>2+</sup> -Exchange versus Store-operated Ca <sup>2+</sup> -Channels by Volatile Anesthetics in Pheochromocytoma (PC12) Cells. <i>Anesthesiology</i> , 2005, 103, 93-101.	1.3	9



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127	Diaphragm muscle activity across respiratory motor behaviors in awake and lightly anesthetized rats. <i>Journal of Applied Physiology</i> , 2018, 124, 915-922.	1.2	9
128	Inhibition of TrkB kinase activity impairs transdiaphragmatic pressure generation. <i>Journal of Applied Physiology</i> , 2020, 128, 338-344.	1.2	9
129	CrossTalk opposing view: The diaphragm muscle does not atrophy as a result of inactivity. <i>Journal of Physiology</i> , 2013, 591, 5259-5262.	1.3	8
130	Increased Risk of Postthoracotomy Pain Syndrome in Patients with Prolonged Hospitalization and Increased Postoperative Opioid Use. <i>Pain Research and Treatment</i> , 2016, 2016, 1-6.	1.7	8
131	Mitochondrial adaptations to inactivity in diaphragm muscle fibers. <i>Journal of Applied Physiology</i> , 2022, 133, 191-204.	1.2	8
132	Novel method for physiological recruitment of diaphragm motor units after upper cervical spinal cord injury. <i>Journal of Applied Physiology</i> , 2009, 107, 641-642.	1.2	7
133	How Is Surgical Risk Best Assessed? A Cohort Comparison of Measures in Total Joint Arthroplasty. <i>Journal of Arthroplasty</i> , 2021, 36, 851-856.e3.	1.5	7
134	Cervical spinal hemisection alters phrenic motor neuron glutamatergic mRNA receptor expression. <i>Experimental Neurology</i> , 2022, 353, 114030.	2.0	7
135	Sodium Oxybate ( $\beta$ -Hydroxybutyrate): Anesthetic Agent or Source of Anesthetic Interactions?. <i>Mayo Clinic Proceedings</i> , 2005, 80, 960.	1.4	6
136	Preoperative gabapentin in patients undergoing primary total knee arthroplasty. <i>Acute Pain</i> , 2009, 11, 57-63.	0.1	6
137	Electromyogram-triggered inspiratory event detection algorithm. , 2012, , .		6
138	Perioperative Nerve Injury After Peripheral Nerve Block in Patients With Previous Systemic Chemotherapy. <i>Regional Anesthesia and Pain Medicine</i> , 2016, 41, 685-690.	1.1	6
139	Frailty Transitions One Year After Total Joint Arthroplasty: A Cohort Study. <i>Journal of Arthroplasty</i> , 2022, 37, 10-18.e2.	1.5	6
140	Automated evaluation of respiratory signals to provide insight into respiratory drive. <i>Respiratory Physiology and Neurobiology</i> , 2022, 300, 103872.	0.7	6
141	Neurotrophins improve synaptic transmission in the adult rodent diaphragm. <i>Neurophysiology</i> , 2007, 39, 284-293.	0.2	4
142	Age-Related Remodeling of Neuromuscular Junctions. , 2011, , 37-54.		4
143	Gene therapy and respiratory neuroplasticity. <i>Experimental Neurology</i> , 2017, 287, 261-267.	2.0	4
144	Three Risk Stratification Tools and Postoperative Pneumonia After Noncardiothoracic Surgery. <i>American Surgeon</i> , 2021, 87, 1207-1213.	0.4	4

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145	Functional Development of Respiratory Muscles. , 2017, , 692-705.e3.		3
146	TrkB signaling contributes to transdiaphragmatic pressure generation in aged mice. Journal of Neurophysiology, 2021, 125, 1157-1163.	0.9	3
147	Frequencyâ€domain analysis of diaphragm muscle EMG activity across ventilatory and nonâ€ventilatory motor behaviors. FASEB Journal, 2011, 25, 1111.24.	0.2	3
148	Foreword to Special Issue: Spinal cord injuryâ€Neuroplasticity and recovery of respiratory function. Respiratory Physiology and Neurobiology, 2009, 169, 83-84.	0.7	2
149	Skeletal Muscle Changes in Hypothyroidism. , 2009, , 1087-1101.		2
150	Adenoâ€associated viral delivery of TrkB receptor enhances functional recovery after cervical spinal hemisection. FASEB Journal, 2012, 26, lb822.	0.2	2
151	Transdiaphragmatic pressure measurements reveal ageâ€related diaphragm muscle dysfunction during nonâ€ventilatory behaviors. FASEB Journal, 2013, 27, 719.7.	0.2	2
152	Inhaled Corticosteroids and Bone Density. Chest, 1995, 107, 1477.	0.4	1
153	Influence of sex hormones on the neuromuscular junction. Advances in Molecular and Cell Biology, 2004, 34, 183-194.	0.1	1
154	Peripheral Nerve Blockade with Combined Standard and Liposomal Bupivacaine in Major Lowerâ€Extremity Amputation. Pain Practice, 2021, 21, 299-307.	0.9	1
155	Rapid semi-automated segmentation and analysis of neuronal morphology and function from confocal image data. , 0, , .		1
156	Motor Unit Recruitment Order in Diaphragm Muscle Following Spinal Cord Injury. FASEB Journal, 2010, 24, 1064.15.	0.2	1
157	Functional Development of Respiratory Muscles. , 2011, , 937-952.		1
158	TrkB kinase activity is necessary for spontaneous recovery of ipsilateral rhythmic phrenic activity following cervical spinal cord hemisection. FASEB Journal, 2013, 27, 719.5.	0.2	1
159	The Effect of TNFâ€± on Mitochondrial Morphology in Model (NSCâ€34) Motor Neurons. FASEB Journal, 2019, 33, 542.17.	0.2	1
160	Modeling Diaphragm Motor Unit Recruitment Across Ventilatory Behaviors. , 2010, , .		0
161	Rebuttal from Gary C. Sieck and Carlos B. Mantilla. Journal of Physiology, 2013, 591, 5265-5265.	1.3	0
162	Physiology's Impact: Discovering Life. Physiology, 2013, 28, 138-139.	1.6	0

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163	<i>Physiology's</i> Impact: Discovering Life. <i>Physiology</i> , 2013, 28, 212-213.	1.6	0
164	Aging and TrkB Signaling Effects on Autophagy Flux in Cervical Spinal Cord. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
165	Functional Development of Respiratory Muscles. , 2004, , 848-863.		0
166	NEUROMUSCULAR TRANSMISSION SAFETY FACTOR VARIES ACROSS DIAPHRAGM MUSCLE FIBER TYPE. <i>FASEB Journal</i> , 2006, 20, A1210.	0.2	0
167	DIAPHRAGM MUSCLE PROTEIN UBIQUITINATION FOLLOWING UNILATERAL DENERVATION. <i>FASEB Journal</i> , 2006, 20, A803.	0.2	0
168	Recruitment order of diaphragm muscle (DIAM) motor units is maintained with the restoration of rhythmic DIAM activity following cervical C2 spinal cord hemisection. <i>FASEB Journal</i> , 2007, 21, A559.	0.2	0
169	Phrenic motoneuron expression of neurotrophins and their receptor TrkB following cervical C2 spinal cord hemisection. <i>FASEB Journal</i> , 2007, 21, A560.	0.2	0
170	Neuregulin decreases protein degradation in skeletal muscle. <i>FASEB Journal</i> , 2008, 22, 757.34.	0.2	0
171	Neuregulin minimizes protein degradation induced by dexamethasone. <i>FASEB Journal</i> , 2008, 22, 754.4.	0.2	0
172	Spinal cord hemisection disrupts descending neuregulin input to phrenic motoneurons. <i>FASEB Journal</i> , 2008, 22, 1232.5.	0.2	0
173	Neuregulinâ€1: a trophic factor for phrenic motoneurons. <i>FASEB Journal</i> , 2009, 23, 783.4.	0.2	0
174	Enhanced threeâ€dimensional visualization of rat phrenic motoneurons.. <i>FASEB Journal</i> , 2009, 23, 783.3.	0.2	0
175	Recruitment Order of Diaphragm Motor Units During Different Respiratory Behaviors. <i>FASEB Journal</i> , 2009, 23, 1010.6.	0.2	0
176	Unilateral denervation changes NRG/ErbB signaling in adult rat diaphragm muscle. <i>FASEB Journal</i> , 2009, 23, 782.8.	0.2	0
177	Complexity in intracellular regulation of protein balance following unilateral diaphragm denervation. <i>FASEB Journal</i> , 2010, 24, 1046.2.	0.2	0
178	Neuregulin improves neuromuscular transmission in diaphragm muscle of young rats. <i>FASEB Journal</i> , 2010, 24, 1064.12.	0.2	0
179	Neurotrophins improve neuromuscular transmission in rats with myasthenia gravis. <i>FASEB Journal</i> , 2010, 24, 1064.13.	0.2	0
180	Neuregulin reduces protein degradation in skeletal muscle in a PI3 kinase/Akt and MAP kinase dependent manner. <i>FASEB Journal</i> , 2010, 24, .	0.2	0

#	ARTICLE	IF	CITATIONS
181	Impact of BDNF/TrkB signaling on recovery of phrenic activity after cervical spinal cord injury in rats. FASEB Journal, 2010, 24, 1064.14.	0.2	0
182	Nonlinear Timeâ€Domain Analysis of EMG Activity Reveals the Timing of Motor Unit Recruitment in Diaphragm Muscle. FASEB Journal, 2012, 26, 1b828.	0.2	0
183	Role of bone marrowâ€derived mesenchymal stem cells in recovery following cervical spinal hemisection. FASEB Journal, 2012, 26, 1147.1.	0.2	0
184	Reduced ventilatory function and sarcopenia of the diaphragm muscle in a mouse model of advanced aging. FASEB Journal, 2012, 26, 1b779.	0.2	0
185	Impact of TrkB signaling on recovery of phrenic activity after cervical spinal cord injury in rats. FASEB Journal, 2012, 26, 1147.2.	0.2	0
186	Orderly Recruitment of Diaphragm Motor Units Across Ventilatory and Nonâ€Ventilatory Motor Behaviors. FASEB Journal, 2013, 27, 719.8.	0.2	0
187	Glutamatergic neurotransmission plays a role in BDNF/TrkB.FLâ€induced enhancement of functional recovery after cervical spinal hemisection. FASEB Journal, 2013, 27, 719.6.	0.2	0
188	Assessment of Diaphragm EMG Activity Recovery Following Upper Cervical Spinal Cord Injury. FASEB Journal, 2015, 29, 659.9.	0.2	0
189	Diaphragm Muscle Sarcopenia is Present in Both Male and Female Mice. FASEB Journal, 2015, 29, 660.7.	0.2	0
190	A Novel Approach to Target Motoneurons Using Mesoporous Silica Nanoparticles. FASEB Journal, 2015, 29, 660.9.	0.2	0
191	Mesenchymal Stem Cell Survival after Intraspinal Transplantation. FASEB Journal, 2015, 29, 1013.4.	0.2	0
192	A Novel Method to Quantify Diaphragm Muscle Fiber Type Clustering in the Context of Sarcopenia. FASEB Journal, 2015, 29, 660.8.	0.2	0
193	Unilateral Denervation of the Diaphragm Muscle Increases Central Drive Only During Ventilatory Behaviors. FASEB Journal, 2015, 29, 1013.5.	0.2	0
194	Acute Impact of Disrupting BDNF/TrkB Signaling on Diaphragm Muscle Force Generation across Motor Behaviors. FASEB Journal, 2019, 33, 844.13.	0.2	0
195	Aging effects on oxidative capacity in typeâ€identified diaphragm muscle fibers. FASEB Journal, 2019, 33, 539.3.	0.2	0
196	The Role of TrkB Kinase Activity in Stabilization of Presynaptic Terminals Wanes in Old Age. FASEB Journal, 2019, 33, 844.11.	0.2	0
197	Age does not increase muscle fatigue resistance of the diaphragm. FASEB Journal, 2019, 33, 538.4.	0.2	0
198	Distribution of Ipsilateral and Contralateral Glutamatergic Synaptic Inputs to Phrenic Motor Neurons. FASEB Journal, 2019, 33, 844.14.	0.2	0

#	ARTICLE	IF	CITATIONS
199	EMG-Based Detection of Inspiration in the Rat Diaphragm Muscle. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
200	Fiber Type Differences in SDH <sub>max</sub> and Mitochondrial Volume Density between Diaphragm and Tibialis Anterior Muscles. FASEB Journal, 2022, 36, .	0.2	0
201	Mitochondria Adapt to Diaphragm Muscle Inactivity Imposed by Cervical Spinal Cord Injury. FASEB Journal, 2022, 36, .	0.2	0
202	Automated Evaluation of Respiratory Signals to Provide Insight Into Respiratory Drive. FASEB Journal, 2022, 36, .	0.2	0
203	Age-Related Autophagy Impairment in Cervical and Lumbar Motor Neurons. FASEB Journal, 2022, 36, .	0.2	0
204	Induction of Autophagy in Motor Neurons with Lanthionine Ketamine Analogs. FASEB Journal, 2022, 36, .	0.2	0
205	Autophagy Impairment and Sarcopenia in Type-II Identified Muscle Fibers of Aging Extensor Digitorum Longus Muscle. FASEB Journal, 2022, 36, .	0.2	0