

# Gary C Sieck

## List of Publications by Year in descending order

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480  
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11,862  
citations

26567

56  
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56606

83  
g-index

503  
all docs

503  
docs citations

503  
times ranked

7997  
citing authors

#	ARTICLE	IF	CITATIONS
1	Altered diaphragm contractile properties with controlled mechanical ventilation. <i>Journal of Applied Physiology</i> , 2002, 92, 2585-2595.	1.2	258
2	Pressure-Time Product during Continuous Positive Airway Pressure, Pressure Support Ventilation, and T-Piece during Weaning from Mechanical Ventilation. <i>The American Review of Respiratory Disease</i> , 1991, 143, 469-475.	2.9	218
3	Diaphragm Dysfunction in Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005, 172, 200-205.	2.5	196
4	Effects of voluntary activity and genetic selection on aerobic capacity in house mice ( <i>Mus mus</i> ). <i>Journal of Applied Physiology</i> , 2000, 89, 695-703.	1.2	191
5	Mitochondrial Dysfunction in Airway Disease. <i>Chest</i> , 2017, 152, 618-626.	0.4	168
6	1,25-Dihydroxyvitamin D <sub>3</sub> Regulates Mitochondrial Oxygen Consumption and Dynamics in Human Skeletal Muscle Cells. <i>Journal of Biological Chemistry</i> , 2016, 291, 1514-1528.	1.6	164
7	Maximum specific force depends on myosin heavy chain content in rat diaphragm muscle fibers. <i>Journal of Applied Physiology</i> , 2000, 89, 695-703.	1.2	159
8	Pkd2 haploinsufficiency alters intracellular calcium regulation in vascular smooth muscle cells. <i>Human Molecular Genetics</i> , 2003, 12, 1875-1880.	1.4	156
9	Mechanism of Endothelial Dysfunction in Apolipoprotein E-deficient Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2001, 21, 1017-1022.	1.1	153
10	Cigarette smoke-induced mitochondrial fragmentation and dysfunction in human airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014, 306, L840-L854.	1.3	150
11	Quantitative histochemical determination of succinic dehydrogenase activity in skeletal muscle fibres. <i>The Histochemical Journal</i> , 1988, 20, 230-243.	0.6	130
12	Role of cyclic ADP-ribose in the regulation of [Ca <sup>2+</sup> ] <sub>i</sub> in porcine tracheal smooth muscle. <i>American Journal of Physiology - Cell Physiology</i> , 1998, 274, C1653-C1660.	2.1	129
13	Human Diaphragm Remodeling Associated with Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2003, 168, 706-713.	2.5	123
14	Caveolae Targeting and Regulation of Large Conductance Ca <sup>2+</sup> -activated K <sup>+</sup> Channels in Vascular Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 11656-11664.	1.6	121
15	Role of Transient Receptor Potential C3 in TNF- $\alpha$ -Enhanced Calcium Influx in Human Airway Myocytes. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2006, 35, 243-251.	1.4	121
16	Diaphragm motor unit recruitment in rats. <i>Respiratory Physiology and Neurobiology</i> , 2010, 173, 101-106.	0.7	115
17	Cervical Dorsal Rhizotomy Enhances Serotonergic Innervation of Phrenic Motoneurons and Serotonin-Dependent Long-Term Facilitation of Respiratory Motor Output in Rats. <i>Journal of Neuroscience</i> , 1998, 18, 8436-8443.	1.7	114
18	Skeletal muscle force and actomyosin ATPase activity reduced by nitric oxide donor. <i>Journal of Applied Physiology</i> , 1997, 83, 1326-1332.	1.2	108

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19	Retrograde labeling of phrenic motoneurons by intrapleural injection. <i>Journal of Neuroscience Methods</i> , 2009, 182, 244-249.	1.3	107
20	Diaphragm muscle sarcopenia in aging mice. <i>Experimental Gerontology</i> , 2013, 48, 881-887.	1.2	107
21	Age-related remodeling of neuromuscular junctions on type-identified diaphragm fibers. , 1998, 21, 887-895.		102
22	Store-operated Ca <sup>2+</sup> entry in porcine airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004, 286, L909-L917.	1.3	98
23	Motoneuron BDNF/TrkB signaling enhances functional recovery after cervical spinal cord injury. <i>Experimental Neurology</i> , 2013, 247, 101-109.	2.0	92
24	[Ca <sup>2+</sup> ] i Reduction Increases Cellular Proliferation and Apoptosis in Vascular Smooth Muscle Cells. <i>Circulation Research</i> , 2005, 96, 873-880.	2.0	89
25	Lymphocyte Function-Associated Antigen 1 Is a Receptor for <i>Pasteurella haemolytica</i> Leukotoxin in Bovine Leukocytes. <i>Infection and Immunity</i> , 2000, 68, 72-79.	1.0	88
26	Metabolic and phenotypic adaptations of diaphragm muscle fibers with inactivation. <i>Journal of Applied Physiology</i> , 1997, 82, 1145-1153.	1.2	87
27	Development of Sinus Arrhythmia During Sleeping and Waking States in Normal Infants. <i>Sleep</i> , 1978, 1, 33-48.	0.6	86
28	Inactivity-induced remodeling of neuromuscular junctions in rat diaphragmatic muscle. , 1999, 22, 307-319.		85
29	Phrenic motoneuron morphology during rapid diaphragm muscle growth. <i>Journal of Applied Physiology</i> , 2000, 89, 563-572.	1.2	85
30	PHYSIOLOGICAL EFFECTS OF DIAPHRAGM MUSCLE DENERVATION AND DISUSE. <i>Clinics in Chest Medicine</i> , 1994, 15, 641-659.	0.8	85
31	Quantifying passive muscle stiffness in children with and without cerebral palsy using ultrasound shear wave elastography. <i>Developmental Medicine and Child Neurology</i> , 2016, 58, 1288-1294.	1.1	82
32	On the terminology for describing the length-force relationship and its changes in airway smooth muscle. <i>Journal of Applied Physiology</i> , 2004, 97, 2029-2034.	1.2	81
33	Neurotrophins improve neuromuscular transmission in the adult rat diaphragm. <i>Muscle and Nerve</i> , 2004, 29, 381-386.	1.0	81
34	Force-calcium relationship depends on myosin heavy chain and troponin isoforms in rat diaphragm muscle fibers. <i>Journal of Applied Physiology</i> , 1999, 87, 1894-1900.	1.2	80
35	Effect of proinflammatory cytokines on regulation of sarcoplasmic reticulum Ca <sup>2+</sup> reuptake in human airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2009, 297, L26-L34.	1.3	79
36	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

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37	Wireless Instantaneous Neurotransmitter Concentration System <sup>®</sup> -based amperometric detection of dopamine, adenosine, and glutamate for intraoperative neurochemical monitoring. <i>Journal of Neurosurgery</i> , 2009, 111, 701-711.	0.9	78
38	Phrenic motor unit recruitment during ventilatory and non-ventilatory behaviors. <i>Respiratory Physiology and Neurobiology</i> , 2011, 179, 57-63.	0.7	75
39	Functional impact of sarcopenia in respiratory muscles. <i>Respiratory Physiology and Neurobiology</i> , 2016, 226, 137-146.	0.7	75
40	Diaphragm Muscle: Structural and Functional Organization. <i>Clinics in Chest Medicine</i> , 1988, 9, 195-210.	0.8	74
41	Fiber type composition of muscle units in the cat diaphragm. <i>Neuroscience Letters</i> , 1989, 97, 29-34.	1.0	73
42	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
43	Breathing: Motor Control of Diaphragm Muscle. <i>Physiology</i> , 2018, 33, 113-126.	1.6	71
44	Mechanical Properties of Respiratory Muscles. , 2013, 3, 1533-1567.		70
45	Congestive heart failure: differential adaptation of the diaphragm and latissimus dorsi. <i>Journal of Applied Physiology</i> , 1995, 79, 389-397.	1.2	69
46	Cross-bridge cycling kinetics, actomyosin ATPase activity and myosin heavy chain isoforms in skeletal and smooth respiratory muscles. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1998, 119, 435-450.	0.7	68
47	Caveolin-1 regulation of store-operated Ca <sup>2+</sup> influx in human airway smooth muscle. <i>European Respiratory Journal</i> , 2012, 40, 470-478.	3.1	68
48	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
49	Denervation effects on myonuclear domain size of rat diaphragm fibers. <i>Journal of Applied Physiology</i> , 2006, 100, 1617-1622.	1.2	66
50	F-actin stabilization increases tension cost during contraction of permeabilized airway smooth muscle in dogs. <i>Journal of Physiology</i> , 1999, 519, 527-538.	1.3	64
51	Invited Review: Significance of spatial and temporal heterogeneity of calcium transients in smooth muscle. <i>Journal of Applied Physiology</i> , 2001, 91, 488-496.	1.2	64
52	Invited Review: Mechanisms underlying motor unit plasticity in the respiratory system. <i>Journal of Applied Physiology</i> , 2003, 94, 1230-1241.	1.2	64
53	Structure <sup>®</sup> -activity relationships in rodent diaphragm muscle fibers vs. neuromuscular junctions. <i>Respiratory Physiology and Neurobiology</i> , 2012, 180, 88-96.	0.7	63
54	Changes in cardiovascular $\beta^2$ -adrenoceptor responses during hypothermia. <i>Cryobiology</i> , 2008, 57, 246-250.	0.3	61

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55	Pneumotaxic area neuronal discharge during sleep-waking states in the cat. <i>Experimental Neurology</i> , 1980, 67, 79-102.	2.0	60
56	Age-related changes in diaphragm muscle contractile properties and myosin heavy chain isoforms.. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1994, 150, 174-178.	2.5	60
57	Non-Random Distribution and Sensory Functions of Primary Cilia in Vascular Smooth Muscle Cells. <i>Kidney and Blood Pressure Research</i> , 2008, 31, 171-184.	0.9	60
58	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
59	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
60	The Ventilatory Muscles. <i>Chest</i> , 1982, 82, 761-766.	0.4	58
61	Cross-bridge kinetics in respiratory muscles. <i>European Respiratory Journal</i> , 1997, 10, 2147-2158.	3.1	58
62	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
63	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
64	<i>Pasteurella haemolytica</i> leukotoxin and endotoxin induced cytokine gene expression in bovine alveolar macrophages requires NF- $\kappa$ B activation and calcium elevation. <i>Microbial Pathogenesis</i> , 1999, 26, 263-273.	1.3	57
65	Phrenic motor neuron loss in aged rats. <i>Journal of Neurophysiology</i> , 2018, 119, 1852-1862.	0.9	57
66	Sleep influences on diaphragmatic motor unit discharge. <i>Experimental Neurology</i> , 1984, 85, 316-335.	2.0	56
67	Ageing and neurotrophic signalling effects on diaphragm neuromuscular function. <i>Journal of Physiology</i> , 2015, 593, 431-440.	1.3	56
68	Hyperoxia-induced Cellular Senescence in Fetal Airway Smooth Muscle Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019, 61, 51-60.	1.4	56
69	Spatial and temporal aspects of ACh-induced [Ca <sup>2+</sup> ] <sub>i</sub> oscillations in porcine tracheal smooth muscle. <i>Cell Calcium</i> , 2000, 27, 153-162.	1.1	55
70	Effect of unilateral denervation on maximum specific force in rat diaphragm muscle fibers. <i>Journal of Applied Physiology</i> , 2001, 90, 1196-1204.	1.2	55
71	Prolonged C <sub>2</sub> spinal hemisection-induced inactivity reduces diaphragm muscle specific force with modest, selective atrophy of type IIx and/or IIb fibers. <i>Journal of Applied Physiology</i> , 2013, 114, 380-386.	1.2	55
72	Selected Contribution: Mechanisms underlying increased force generation by rat diaphragm muscle fibers during development. <i>Journal of Applied Physiology</i> , 2001, 90, 380-388.	1.2	54

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73	Chronic assessment of diaphragm muscle EMG activity across motor behaviors. <i>Respiratory Physiology and Neurobiology</i> , 2011, 177, 176-182.	0.7	54
74	Feasibility and Reliability of Quantifying Passive Muscle Stiffness in Young Children by Using Shear Wave Ultrasound Elastography. <i>Journal of Ultrasound in Medicine</i> , 2015, 34, 663-670.	0.8	54
75	Inflammation alters regional mitochondrial Ca <sup>2+</sup> in human airway smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 303, C244-C256.	2.1	53
76	Pkd2+ <sup>+</sup> Vascular Smooth Muscles Develop Exaggerated Vasocontraction in Response to Phenylephrine Stimulation. <i>Journal of the American Society of Nephrology: JASN</i> , 2007, 18, 485-493.	3.0	51
77	Regulation of store-operated Ca <sup>2+</sup> entry by CD38 in human airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008, 294, L378-L385.	1.3	51
78	Neuromuscular adaptations to respiratory muscle inactivity. <i>Respiratory Physiology and Neurobiology</i> , 2009, 169, 133-140.	0.7	51
79	ATP consumption rate per cross bridge depends on myosin heavy chain isoform. <i>Journal of Applied Physiology</i> , 2003, 94, 2188-2196.	1.2	50
80	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
81	Impact of aging on diaphragm muscle function in male and female Fischer 344 rats. <i>Physiological Reports</i> , 2018, 6, e13786.	0.7	50
82	A Novel and Selective Poly (ADP-Ribose) Polymerase Inhibitor Ameliorates Chemotherapy-Induced Painful Neuropathy. <i>PLoS ONE</i> , 2013, 8, e54161.	1.1	50
83	Characterization of Primary Cilia in Human Airway Smooth Muscle Cells. <i>Chest</i> , 2009, 136, 561-570.	0.4	49
84	Reserve capacity for ATP consumption during isometric contraction in human skeletal muscle fibers. <i>Journal of Applied Physiology</i> , 2001, 90, 657-664.	1.2	48
85	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
86	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
87	Evolution and Functional Differentiation of the Diaphragm Muscle of Mammals. , 2019, 9, 715-766.		48
88	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
89	Synaptic Vesicle Distribution and Release at Rat Diaphragm Neuromuscular Junctions. <i>Journal of Neurophysiology</i> , 2007, 98, 478-487.	0.9	47
90	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

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91	Sodium-Calcium Exchange in Intracellular Calcium Handling of Human Airway Smooth Muscle. PLoS ONE, 2011, 6, e23662.	1.1	47
92	Neuromuscular transmission failure during postnatal development. Neuroscience Letters, 1991, 125, 34-36.	1.0	46
93	Isotonic contractile and fatigue properties of developing rat diaphragm muscle. Journal of Applied Physiology, 1998, 84, 1260-1268.	1.2	46
94	Key aspects of phrenic motoneuron and diaphragm muscle development during the perinatal period. Journal of Applied Physiology, 2008, 104, 1818-1827.	1.2	46
95	Quantitative determination of calcium-activated myosin adenosine triphosphatase activity in rat skeletal muscle fibres. The Histochemical Journal, 1992, 24, 431-444.	0.6	45
96	TrkB kinase activity is critical for recovery of respiratory function after cervical spinal cord hemisection. Experimental Neurology, 2014, 261, 190-195.	2.0	44
97	Analysis of muscle fiber clustering in the diaphragm muscle of sarcopenic mice. Muscle and Nerve, 2015, 52, 76-82.	1.0	44
98	Morphological Adaptations of Neuromuscular Junctions Depend on Fiber Type. Applied Physiology, Nutrition, and Metabolism, 1997, 22, 197-230.	1.7	43
99	Corticosteroid effects on isotonic contractile properties of rat diaphragm muscle. Journal of Applied Physiology, 1997, 83, 1062-1067.	1.2	43
100	Subcellular localization of cyclic ADP-ribosyl cyclase and cyclic ADP-ribose hydrolase activities in porcine airway smooth muscle. Biochimica Et Biophysica Acta - Molecular Cell Research, 2000, 1498, 64-71.	1.9	43
101	Cyclic nucleotide regulation of store-operated Ca <sup>2+</sup> influx in airway smooth muscle. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2006, 290, L278-L283.	1.3	43
102	Role of neurotrophins in recovery of phrenic motor function following spinal cord injury. Respiratory Physiology and Neurobiology, 2009, 169, 218-225.	0.7	43
103	Mechanisms underlying hypothermia-induced cardiac contractile dysfunction. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H890-H897.	1.5	43
104	Respiratory inhibition induced by transient hypertension during sleep in unrestrained cats. Experimental Neurology, 1985, 90, 173-186.	2.0	42
105	Diaphragm neuromuscular transmission failure in aged rats. Journal of Neurophysiology, 2019, 122, 93-104.	0.9	42
106	Respiratory muscle plasticity. Respiratory Physiology and Neurobiology, 2005, 147, 235-251.	0.7	41
107	Effects of hypothyroidism on maximum specific force in rat diaphragm muscle fibers. Journal of Applied Physiology, 2002, 92, 1506-1514.	1.2	40
108	Diaphragm muscle function following midcervical contusion injury in rats. Journal of Applied Physiology, 2019, 126, 221-230.	1.2	40

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109	Neuregulin $\beta$ 1 at synapses on phrenic motoneurons. <i>Journal of Comparative Neurology</i> , 2010, 518, 4213-4225.	0.9	39
110	Discharge of neurons in the parabrachial pons related to the cardiac cycle: Changes during different sleep-waking states. <i>Brain Research</i> , 1980, 199, 385-399.	1.1	38
111	Nitric oxide impairs Ca <sup>2+</sup> activation and slows cross-bridge cycling kinetics in skeletal muscle. <i>Journal of Applied Physiology</i> , 2001, 91, 2233-2239.	1.2	38
112	Endoplasmic Reticulum Stress and Mitochondrial Function in Airway Smooth Muscle. <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 374.	1.8	38
113	Diaphragm electromyographic activity following unilateral midcervical contusion injury in rats. <i>Journal of Neurophysiology</i> , 2017, 117, 545-555.	0.9	37
114	Functional Effects of Cigarette Smoke-Induced Changes in Airway Smooth Muscle Mitochondrial Morphology. <i>Journal of Cellular Physiology</i> , 2017, 232, 1053-1068.	2.0	37
115	Gender and transcriptional regulation of NO synthase and ET-1 in porcine aortic endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1997, 273, H1962-H1967.	1.5	36
116	Safety factor for neuromuscular transmission at type-identified diaphragm fibers. <i>Muscle and Nerve</i> , 2007, 35, 800-803.	1.0	36
117	Interaction between endoplasmic/sarcoplasmic reticulum stress (ER/SR stress), mitochondrial signaling and Ca <sup>2+</sup> regulation in airway smooth muscle (ASM). <i>Canadian Journal of Physiology and Pharmacology</i> , 2015, 93, 97-110.	0.7	36
118	Changes in diaphragmatic EMG spectra during hyperpneic loads. <i>Respiration Physiology</i> , 1985, 61, 137-152.	2.8	35
119	Invited Review: Plasticity and energetic demands of contraction in skeletal and cardiac muscle. <i>Journal of Applied Physiology</i> , 2001, 90, 1158-1164.	1.2	35
120	Interactive effects of denervation and malnutrition on diaphragm structure and function. <i>Journal of Applied Physiology</i> , 1996, 81, 2165-2172.	1.2	34
121	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
122	Developmental effects on myonuclear domain size of rat diaphragm fibers. <i>Journal of Applied Physiology</i> , 2008, 104, 787-794.	1.2	34
123	The Impact of Midcervical Contusion Injury on Diaphragm Muscle Function. <i>Journal of Neurotrauma</i> , 2016, 33, 500-509.	1.7	34
124	Aging-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
125	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
126	Impact of sarcopenia on diaphragm muscle fatigue. <i>Experimental Physiology</i> , 2019, 104, 1090-1099.	0.9	34



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127	Effects of Volatile Anesthetics on Store-operated Ca <sup>2+</sup> Influx in Airway Smooth Muscle. <i>Anesthesiology</i> , 2004, 101, 373-380.	1.3	33
128	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
129	A Critical Evaluation of Current Concepts in Cerebral Palsy. <i>Physiology</i> , 2019, 34, 216-229.	1.6	33
130	Gender and Relaxation to C-Type Natriuretic Peptide in Porcine Coronary Arteries. <i>Journal of Cardiovascular Pharmacology</i> , 1998, 32, 5-11.	0.8	33
131	Caveolin-1 knockout mice exhibit airway hyperreactivity. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2012, 303, L669-L681.	1.3	32
132	Role of TrkB kinase activity in aging diaphragm neuromuscular junctions. <i>Experimental Gerontology</i> , 2015, 72, 184-191.	1.2	32
133	Synaptic vesicle cycling at type-identified diaphragm neuromuscular junctions. <i>Muscle and Nerve</i> , 2004, 30, 774-783.	1.0	31
134	Store-operated Ca <sup>2+</sup> Influx in Airway Smooth Muscle. <i>Anesthesiology</i> , 2006, 105, 976-983.	1.3	31
135	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
136	Denervation alters myosin heavy chain expression and contractility of developing rat diaphragm muscle. <i>Journal of Applied Physiology</i> , 2000, 89, 1106-1113.	1.2	30
137	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
138	Effect of Mechanical Ventilation on the Diaphragm. <i>New England Journal of Medicine</i> , 2008, 358, 1392-1394.	13.9	30
139	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
140	Quantifying Effect of Onabotulinum Toxin A on Passive Muscle Stiffness in Children with Cerebral Palsy Using Ultrasound Shear Wave Elastography. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2018, 97, 500-506.	0.7	30
141	Extramyocellular interleukin-6 influences skeletal muscle mitochondrial physiology through canonical JAK/STAT signaling pathways. <i>FASEB Journal</i> , 2020, 34, 14458-14472.	0.2	30
142	[17] Volume measurements in confocal microscopy. <i>Methods in Enzymology</i> , 1999, 307, 296-315.	0.4	29
143	Power fatigue of the rat diaphragm muscle. <i>Journal of Applied Physiology</i> , 2000, 89, 2215-2219.	1.2	29
144	Oxandrolone enhances skeletal muscle myosin synthesis and alters global gene expression profile in Duchenne muscular dystrophy. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 290, E530-E539.	1.8	29

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145	Impact of unilateral denervation on transdiaphragmatic pressure. <i>Respiratory Physiology and Neurobiology</i> , 2015, 210, 14-21.	0.7	29
146	Diaphragm muscle sarcopenia in Fischer 344 and Brown Norway rats. <i>Experimental Physiology</i> , 2016, 101, 883-894.	0.9	29
147	Trophic factor expression in phrenic motor neurons. <i>Respiratory Physiology and Neurobiology</i> , 2008, 164, 252-262.	0.7	28
148	Regulation of sarcoplasmic reticulum Ca <sup>2+</sup> reuptake in porcine airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008, 294, L787-L796.	1.3	28
149	Novel method for transdiaphragmatic pressure measurements in mice. <i>Respiratory Physiology and Neurobiology</i> , 2013, 188, 56-59.	0.7	28
150	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
151	Motoneuron glutamatergic receptor expression following recovery from cervical spinal hemisection. <i>Journal of Comparative Neurology</i> , 2017, 525, 1192-1205.	0.9	28
152	Temporal aspects of excitation-contraction coupling in airway smooth muscle. <i>Journal of Applied Physiology</i> , 2001, 91, 2266-2274.	1.2	27
153	EMG-Based Detection of Inspiration in the Rat Diaphragm Muscle. , 2006, 2006, 1204-7.		27
154	Effects of the Inflammatory Cytokines TNF- $\alpha$ and IL-13 on Stromal Interaction Molecule-1 Aggregation in Human Airway Smooth Muscle Intracellular Ca <sup>2+</sup> Regulation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013, 49, 601-608.	1.4	27
155	Differences in lumbar motor neuron pruning in an animal model of early onset spasticity. <i>Journal of Neurophysiology</i> , 2018, 120, 601-609.	0.9	27
156	Mechanisms Underlying Greater Sensitivity of Neonatal Cardiac Muscle to Volatile Anesthetics. <i>Anesthesiology</i> , 2002, 96, 893-906.	1.3	26
157	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
158	Respiratory Muscle Plasticity. , 2015, 2, 1441-1462.		26
159	A novel approach for targeted delivery to motoneurons using cholera toxin-B modified protocells. <i>Journal of Neuroscience Methods</i> , 2016, 273, 160-174.	1.3	26
160	TNF- $\alpha$ enhances force generation in airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 312, L994-L1002.	1.3	26
161	Compensatory effects following unilateral diaphragm paralysis. <i>Respiratory Physiology and Neurobiology</i> , 2017, 246, 39-46.	0.7	26
162	Spatial and temporal aspects of calcium sparks in porcine tracheal smooth muscle cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1999, 277, L1018-L1025.	1.3	25

#	ARTICLE	IF	CITATIONS
163	TNF $\hat{\pm}$ decreases mitochondrial movement in human airway smooth muscle. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 313, L166-L176.	1.3	25
164	Diaphragm Motor Units and Their Response to Altered Use. Seminars in Respiratory and Critical Care Medicine, 1991, 12, 258-269.	0.8	24
165	Role of CD38 in myometrial Ca <sup>2+</sup> transients: modulation by progesterone. American Journal of Physiology - Endocrinology and Metabolism, 2004, 287, E1142-E1148.	1.8	24
166	Elevated blood pressure and cardiac hypertrophy after ablation of the gly96/IEX-1 gene. Journal of Applied Physiology, 2006, 100, 707-716.	1.2	24
167	Endovascular Treatment of Experimental Aneurysms by Use of Fibroblast-Coated Platinum Coils. Stroke, 2007, 38, 170-176.	1.0	24
168	Aging reduces succinate dehydrogenase activity in rat type IIX/IIb diaphragm muscle fibers. Journal of Applied Physiology, 2020, 128, 70-77.	1.2	24
169	TNF $\hat{\pm}$ selectively activates the IRE1 $\hat{\pm}$ /XBP1 endoplasmic reticulum stress pathway in human airway smooth muscle cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 318, L483-L493.	1.3	24
170	TNF $\hat{\pm}$ induces mitochondrial fragmentation and biogenesis in human airway smooth muscle. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2021, 320, L137-L151.	1.3	24
171	Discharge correlations between neurons in the nucleus parabrachialis medialis during sleep-waking states. Brain Research, 1980, 199, 343-358.	1.1	23
172	Myosin heavy chain transitions during development. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1998, 119, 459-470.	0.7	23
173	Corticosteroid effects on diaphragm neuromuscular junctions. Journal of Applied Physiology, 1999, 86, 114-122.	1.2	23
174	Exogenous testosterone treatment decreases diaphragm neuromuscular transmission failure in male rats. Journal of Applied Physiology, 2001, 90, 850-856.	1.2	23
175	cADP ribose and [Ca <sup>2+</sup> ] <sub>i</sub> regulation in rat cardiac myocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 279, H1482-H1489.	1.5	22
176	Changes in actomyosin ATP consumption rate in rat diaphragm muscle fibers during postnatal development. Journal of Applied Physiology, 2003, 94, 1896-1902.	1.2	22
177	Hypothermia/rewarming disrupts excitation-contraction coupling in cardiomyocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H1533-H1540.	1.5	22
178	Effects of antenatal lipopolysaccharide and postnatal hyperoxia on airway reactivity and remodeling in a neonatal mouse model. Pediatric Research, 2016, 79, 391-400.	1.1	22
179	Alterations in diaphragm contractility after nandrolone administration: an analysis of potential mechanisms. Journal of Applied Physiology, 1999, 86, 985-992.	1.2	21
180	Chronic TrkB agonist treatment in old age does not mitigate diaphragm neuromuscular dysfunction. Physiological Reports, 2017, 5, e13103.	0.7	21

#	ARTICLE	IF	CITATIONS
181	Metabolic variability within individual fibres of the cat tibialis posterior and diaphragm muscles. The Histochemical Journal, 1991, 23, 366-374.	0.6	20
182	Hypothyroidism alters diaphragm muscle development. Journal of Applied Physiology, 1996, 81, 1965-1972.	1.2	20
183	Correlation of respiratory activity of contralateral diaphragm muscles for evaluation of recovery following hemiparesis. , 2009, 2009, 404-7.		20
184	Impact of diaphragm muscle fiber atrophy on neuromotor control. Respiratory Physiology and Neurobiology, 2013, 189, 411-418.	0.7	20
185	Impaired Autophagy in Motor Neurons: A Final Common Mechanism of Injury and Death. Physiology, 2018, 33, 211-224.	1.6	20
186	Heterogeneous glutamatergic receptor mRNA expression across phrenic motor neurons in rats. Journal of Neurochemistry, 2020, 153, 586-598.	2.1	20
187	Phrenic motor neuron loss in an animal model of early onset hypertonia. Journal of Neurophysiology, 2020, 123, 1682-1690.	0.9	20
188	Prepubertal cyclicality in feeding behavior and body weight regulation in the female rat. Physiology and Behavior, 1977, 18, 299-305.	1.0	19
189	Absence of myofibrillar creatine kinase and diaphragm isometric function during repetitive activation. Journal of Applied Physiology, 1998, 84, 1166-1173.	1.2	19
190	HIGHLIGHTED TOPIC: Pulmonary Circulation and Hypoxia. Journal of Applied Physiology, 2005, 98, 1-2.	1.2	19
191	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
192	Inflammation, caveolae and CD38-mediated calcium regulation in human airway smooth muscle. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 346-351.	1.9	19
193	Glutamatergic input varies with phrenic motor neuron size. Journal of Neurophysiology, 2019, 122, 1518-1529.	0.9	19
194	ATP hydrolysis during contraction of permeabilized airway smooth muscle. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1999, 277, L334-L342.	1.3	18
195	Physiology of aging. Journal of Applied Physiology, 2003, 95, 1333-1334.	1.2	18
196	Asthma and sarcoplasmic reticulum Ca <sup>2+</sup> reuptake in airway smooth muscle. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 297, L794-L794.	1.3	18
197	Myosin filament polymerization and depolymerization in a model of partial length adaptation in airway smooth muscle. Journal of Applied Physiology, 2011, 111, 735-742.	1.2	18
198	Cardiovascular effects of levosimendan during rewarming from hypothermia in rat. Cryobiology, 2014, 69, 402-410.	0.3	18

#	ARTICLE	IF	CITATIONS
199	Functional Measurement of Respiratory Muscle Motor Behaviors Using Transdiaphragmatic Pressure. <i>Methods in Molecular Biology</i> , 2016, 1460, 309-319.	0.4	18
200	Estrogen modification of feeding behavior in the female rat: Influence of metabolic state. <i>Physiology and Behavior</i> , 1978, 21, 893-897.	1.0	17
201	The physiologic responses to epinephrine during cooling and after rewarming in vivo. <i>Critical Care</i> , 2011, 15, R225.	2.5	17
202	K <sup>+</sup> channels facilitate K <sup>+</sup> secretion or Na <sup>+</sup> absorption depending on apical or basolateral P2Y receptor stimulation. <i>Journal of Physiology</i> , 2011, 589, 3483-3494.	1.3	17
203	Mechanisms underlying TNF $\alpha$ -induced enhancement of force generation in airway smooth muscle. <i>Physiological Reports</i> , 2019, 7, e14220.	0.7	17
204	Why individuals with cerebral palsy are at higher risk for respiratory complications from COVID-19. <i>Journal of Pediatric Rehabilitation Medicine</i> , 2020, 13, 317-327.	0.3	17
205	Acute intrathecal BDNF enhances functional recovery after cervical spinal cord injury in rats. <i>Journal of Neurophysiology</i> , 2021, 125, 2158-2165.	0.9	17
206	Postnatal Changes in the Distribution of Succinate Dehydrogenase Activities among Diaphragm Muscle Fibers. <i>Pediatric Research</i> , 1991, 29, 586-593.	1.1	16
207	Regional differences in serotonergic input to canine parasternal intercostal motoneurons. <i>Journal of Applied Physiology</i> , 2000, 88, 1581-1589.	1.2	16
208	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
209	Phrenic motoneuron structural plasticity across models of diaphragm muscle paralysis. <i>Journal of Comparative Neurology</i> , 2018, 526, 2973-2983.	0.9	16
210	1 $\alpha$ ,25-dihydroxyvitamin D3 mitigates cancer cell mediated mitochondrial dysfunction in human skeletal muscle cells. <i>Biochemical and Biophysical Research Communications</i> , 2018, 496, 746-752.	1.0	16
211	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
212	Spinal cord injury and diaphragm neuromotor control. <i>Expert Review of Respiratory Medicine</i> , 2020, 14, 453-464.	1.0	16
213	Comparison of cross-bridge cycling kinetics in neonatal vs. adult rat ventricular muscle. <i>Journal of Muscle Research and Cell Motility</i> , 1999, 20, 717-723.	0.9	15
214	Volatile anaesthetic effects on Na + Ca <sup>2+</sup> exchange in rat cardiac myocytes. <i>Journal of Physiology</i> , 2001, 532, 91-104.	1.3	15
215	Neuromotor control in chronic obstructive pulmonary disease. <i>Journal of Applied Physiology</i> , 2013, 114, 1246-1252.	1.2	15
216	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

#	ARTICLE	IF	CITATIONS
217	Frequency-dependent lipid raft uptake at rat diaphragm muscle axon terminals. <i>Muscle and Nerve</i> , 2019, 59, 611-618.	1.0	15
218	Age-related impairment of autophagy in cervical motor neurons. <i>Experimental Gerontology</i> , 2021, 144, 111193.	1.2	15
219	Mitochondrial morphology and function varies across diaphragm muscle fiber types. <i>Respiratory Physiology and Neurobiology</i> , 2022, 295, 103780.	0.7	15
220	Regulation of neuromuscular transmission by neurotrophins. <i>Acta Physiologica Sinica</i> , 2003, 55, 617-24.	0.5	15
221	Diaphragm disuse reduces Ca <sup>2+</sup> uptake capacity of sarcoplasmic reticulum. <i>Journal of Applied Physiology</i> , 1997, 82, 164-171.	1.2	14
222	Positive end-expiratory airway pressure does not aggravate ventilator-induced diaphragmatic dysfunction in rabbits. <i>Critical Care</i> , 2014, 18, 494.	2.5	14
223	Analysis of fluid movement in skeletal muscle using fluorescent microspheres. <i>Muscle and Nerve</i> , 2016, 54, 444-450.	1.0	14
224	Diaphragm muscle sarcopenia into very old age in mice. <i>Physiological Reports</i> , 2020, 8, e14305.	0.7	14
225	Inflammation-Induced Protein Unfolding in Airway Smooth Muscle Triggers a Homeostatic Response in Mitochondria. <i>International Journal of Molecular Sciences</i> , 2021, 22, 363.	1.8	14
226	Effects of early handling upon puberty: Correlations with adrenal stress responsiveness. <i>Physiology and Behavior</i> , 1975, 15, 487-489.	1.0	13
227	Molecular biology of thermoregulation. <i>Journal of Applied Physiology</i> , 2002, 92, 1365-1366.	1.2	13
228	Agonist-induced cyclic ADP ribose production in airway smooth muscle. <i>Archives of Biochemistry and Biophysics</i> , 2006, 452, 102-107.	1.4	13
229	Effect of denervation on ATP consumption rate of diaphragm muscle fibers. <i>Journal of Applied Physiology</i> , 2007, 103, 858-866.	1.2	13
230	Effects of milrinone on left ventricular cardiac function during cooling in an intact animal model. <i>Cryobiology</i> , 2012, 65, 27-32.	0.3	13
231	Semi-automated assessment of transdiaphragmatic pressure variability across motor behaviors. <i>Respiratory Physiology and Neurobiology</i> , 2015, 215, 73-81.	0.7	13
232	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
233	Organ blood flow and O <sub>2</sub> transport during hypothermia (27°C) and rewarming in a pig model. <i>Experimental Physiology</i> , 2019, 104, 50-60.	0.9	13
234	Impaired neuromuscular transmission of the tibialis anterior in a rodent model of hypertonia. <i>Journal of Neurophysiology</i> , 2020, 123, 1864-1869.	0.9	13

#	ARTICLE	IF	CITATIONS
235	Physiological Impact of Hypothermia: The Good, the Bad, and the Ugly. <i>Physiology</i> , 2022, 37, 69-87.	1.6	13
236	CD38â€NADase is a new major contributor to Duchenne muscular dystrophic phenotype. <i>EMBO Molecular Medicine</i> , 2022, 14, e12860.	3.3	13
237	Absence of high-frequency oscillations in the discharge of pneumotaxic neurons in intact, unanesthetized cats. <i>Brain Research</i> , 1981, 221, 397-401.	1.1	12
238	Effect of halothane on intracellular calcium oscillations in porcine tracheal smooth muscle cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1999, 276, L81-L89.	1.3	12
239	Muscle dysfunction in COPD. <i>Journal of Applied Physiology</i> , 2013, 114, 1220-1221.	1.2	12
240	Cardiac troponin-I phosphorylation underlies myocardial contractile dysfunction induced by hypothermia rewarming. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 317, H726-H731.	1.5	12
241	Diaphragm muscle adaptations in health and disease. <i>Drug Discovery Today: Disease Models</i> , 2019, 29-30, 43-52.	1.2	12
242	Diaphragm neuromuscular transmission failure in a mouse model of an early-onset neuromotor disorder. <i>Journal of Applied Physiology</i> , 2021, 130, 708-720.	1.2	12
243	Quantifying mitochondrial volume density in phrenic motor neurons. <i>Journal of Neuroscience Methods</i> , 2021, 353, 109093.	1.3	12
244	Tongue muscle contractile, fatigue, and fiber type properties in rats. <i>Journal of Applied Physiology</i> , 2021, 131, 1043-1055.	1.2	12
245	Isotonic force modulates force redevelopment rate of intact frog muscle fibres: evidence for crossâ€bridge induced thin filament activation. <i>Journal of Physiology</i> , 2002, 543, 555-566.	1.3	11
246	Respiratory-related heart rate variation during sleep and waking states in cats. <i>Experimental Neurology</i> , 1981, 72, 195-203.	2.0	10
247	Effect of collagen digestion on the passive elastic properties of diaphragm muscle in rat. <i>Medical Engineering and Physics</i> , 2010, 32, 90-94.	0.8	10
248	Role of superoxide ion formation in hypothermia/rewarming induced contractile dysfunction in cardiomyocytes. <i>Cryobiology</i> , 2018, 81, 57-64.	0.3	10
249	Mitochondrial Fragmentation and Dysfunction in Type IIx/IIb Diaphragm Muscle Fibers in 24-Month Old Fischer 344 Rats. <i>Frontiers in Physiology</i> , 2021, 12, 727585.	1.3	10
250	Chronic Aminophylline Administration: Effect on Diaphragm Contractility and Fatigue Resistance In Vitro. <i>The American Review of Respiratory Disease</i> , 1991, 144, 121-125.	2.9	9
251	Respiratory muscle coordination in acute spinal dogs. <i>Respiration Physiology</i> , 1996, 104, 29-37.	2.8	9
252	Oxygen sensing in health and disease. <i>Journal of Applied Physiology</i> , 2004, 96, 1-2.	1.2	9

#	ARTICLE	IF	CITATIONS
253	Respiratory Muscles: Structure, Function, and Regulation. Colloquium Series on Integrated Systems Physiology From Molecule To Function, 2012, 4, 1-96.	0.3	9
254	Diaphragm muscle activity across respiratory motor behaviors in awake and lightly anesthetized rats. Journal of Applied Physiology, 2018, 124, 915-922.	1.2	9
255	Inhibition of TrkB kinase activity impairs transdiaphragmatic pressure generation. Journal of Applied Physiology, 2020, 128, 338-344.	1.2	9
256	Recruitment and Frequency Coding of Diaphragm Motor Units During Ventilatory and Non-Ventilatory Behaviors. , 1989, , 441-450.		9
257	Rat Diaphragm Oxidative Capacity, Antioxidant Enzymes, and Fatigue: Newborn versus Adult. Pediatric Research, 1997, 42, 60-65.	1.1	9
258	CrossTalk opposing view: The diaphragm muscle does not atrophy as a result of inactivity. Journal of Physiology, 2013, 591, 5259-5262.	1.3	8
259	Mitochondrial adaptations to inactivity in diaphragm muscle fibers. Journal of Applied Physiology, 2022, 133, 191-204.	1.2	8
260	Cardiac arrhythmias induced by transient hypertension during sleep-waking states. Journal of the Autonomic Nervous System, 1983, 8, 179-191.	1.9	7
261	Endothelium-dependent effects of estrogen on vasomotor tone. Vascular Pharmacology, 2002, 38, 109-113.	1.0	7
262	Novel method for physiological recruitment of diaphragm motor units after upper cervical spinal cord injury. Journal of Applied Physiology, 2009, 107, 641-642.	1.2	7
263	Cervical spinal hemisection alters phrenic motor neuron glutamatergic mRNA receptor expression. Experimental Neurology, 2022, 353, 114030.	2.0	7
264	Nocturnal feeding pattern in the prepubertal rat: Influence of the ventromedial hypothalamus (VMH). Physiology and Behavior, 1979, 23, 777-783.	1.0	6
265	Mechano-chemical effects of Ca <sup>2+</sup> in cross-linked troponin-C films. FEBS Letters, 2002, 524, 107-110.	1.3	6
266	Functional genomics of sleep and circadian rhythms. Journal of Applied Physiology, 2002, 92, 1-2.	1.2	6
267	Distribution of Major Basic Protein on Human Airway following In Vitro Eosinophil Incubation. Mediators of Inflammation, 2010, 2010, 1-13.	1.4	6
268	Electromyogram-triggered inspiratory event detection algorithm. , 2012, , .		6
269	Mechanisms of intrinsic force in small human airways. Respiratory Physiology and Neurobiology, 2012, 181, 99-108.	0.7	6
270	Physiology's Impact: Stop Ignoring the Obvious—“SEX MATTERS!”. Physiology, 2014, 29, 4-5.	1.6	6



#	ARTICLE	IF	CITATIONS
271	Physiology in Perspective: Aging and Underlying Pathophysiology. <i>Physiology</i> , 2017, 32, 7-8.	1.6	6
272	Discontinued stimulation of cardiomyocytes provides protection against hypothermiaâ€“rearmingâ€“induced disruption of excitationâ€“contraction coupling. <i>Experimental Physiology</i> , 2018, 103, 819-826.	0.9	6
273	Automated evaluation of respiratory signals to provide insight into respiratory drive. <i>Respiratory Physiology and Neurobiology</i> , 2022, 300, 103872.	0.7	6
274	Primary cilia in satellite cells are the mechanical sensors for muscle hypertrophy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	6
275	Regulation of feeding behavior in the prepubertal female rat. <i>Physiology and Behavior</i> , 1978, 21, 727-733.	1.0	5
276	Volatile Anesthetics and Regulation of Cardiac Na <sup>+</sup> /Ca <sup>2+</sup> Exchange in Neonates versus Adults. <i>Annals of the New York Academy of Sciences</i> , 2002, 976, 530-534.	1.8	5
277	Physiology in Perspective: The Burden of Obesity. <i>Physiology</i> , 2014, 29, 86-87.	1.6	5
278	Paradoxical Use of Tumor Necrosis Factor in Treating Pulmonary Edema. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014, 190, 595-596.	2.5	5
279	Physiology in Perspective: The Importance of Integrative Physiology. <i>Physiology</i> , 2017, 32, 180-181.	1.6	5
280	Study of the Effects of 3 h of Continuous Cardiopulmonary Resuscitation at 27Â°C on Global Oxygen Transport and Organ Blood Flow. <i>Frontiers in Physiology</i> , 2020, 11, 213.	1.3	5
281	Muscle specific deletion of the vitamin-D receptor in mice is associated with diaphragm muscle weakness. <i>Journal of Applied Physiology</i> , 2021, 131, 95-106.	1.2	5
282	Diaphragm muscle function in a mouse model of early-onset spasticity. <i>Journal of Applied Physiology</i> , 2022, 133, 60-68.	1.2	5
283	Puberty-related alterations in the organization of sleep-wakefulness states: Differences between spontaneous and induced pubertal conditions. <i>Experimental Neurology</i> , 1978, 61, 407-420.	2.0	4
284	Exercise effects on muscle insulin signaling and action. <i>Journal of Applied Physiology</i> , 2002, 93, 1-2.	1.2	4
285	Airway hyperresponsiveness: from molecules to bedside. <i>Journal of Applied Physiology</i> , 2003, 95, 1-2.	1.2	4
286	Neurotrophins improve synaptic transmission in the adult rodent diaphragm. <i>Neurophysiology</i> , 2007, 39, 284-293.	0.2	4
287	Age-Related Remodeling of Neuromuscular Junctions. , 2011, , 37-54.		4
288	Muscle Weakness in Critical Illness. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015, 191, 1094-1096.	2.5	4

#	ARTICLE	IF	CITATIONS
289	Cytoskeletal remodeling slows cross-bridge cycling and ATP hydrolysis rates in airway smooth muscle. <i>Physiological Reports</i> , 2020, 8, e14561.	0.7	4
290	Growth and survival characteristics of <i>knx2-1</i> mice. <i>Animal Models and Experimental Medicine</i> , 2020, 3, 319-324.	1.3	4
291	The Impact of Sugar-Sweetened Beverage Consumption on the Liver: A Proteomics-Based Analysis. <i>Antioxidants</i> , 2020, 9, 569.	2.2	4
292	Neuroprotective Role of Akt in Hypoxia Adaptation in Andeans. <i>Frontiers in Neuroscience</i> , 2020, 14, 607711.	1.4	4
293	Impact of congenital diaphragmatic hernia on diaphragm muscle function in neonatal rats. <i>Journal of Applied Physiology</i> , 2021, 130, 801-812.	1.2	4
294	Effects of rewarming with extracorporeal membrane oxygenation to restore oxygen transport and organ blood flow after hypothermic cardiac arrest in a porcine model. <i>Scientific Reports</i> , 2021, 11, 18918.	1.6	4
295	Plasticity in respiratory motor control. <i>Journal of Applied Physiology</i> , 2003, 94, 1-2.	1.2	3
296	Genetic models in applied physiology. <i>Journal of Applied Physiology</i> , 2003, 94, 1295-1296.	1.2	3
297	Commentary. <i>Journal of Applied Physiology</i> , 2004, 96, 375-375.	1.2	3
298	Physiology's Impact: Discovering Life. <i>Physiology</i> , 2013, 28, 4-6.	1.6	3
299	Response to letter by Dr. Marc Hershenson (exposure of airway smooth muscle cells to cigarette) <i>Tj ETQq1 1 0.784314 rgBT /Overload</i> L346-L346.	1.3	3
300	Physiology in Perspective: Homeostasis and Evolution. <i>Physiology</i> , 2017, 32, 98-99.	1.6	3
301	Functional Development of Respiratory Muscles. , 2017, , 692-705.e3.		3
302	Initiating the Breath: The Drive to Breathe, Muscle Pump. <i>Respiratory Medicine</i> , 2018, , 151-170.	0.1	3
303	Physiology in Perspective: A Key Role of Physiology in Understanding COVID-19. <i>Physiology</i> , 2020, 35, 286-287.	1.6	3
304	Maintaining intravenous volume mitigates hypothermia-induced myocardial dysfunction and accumulation of intracellular Ca <sup>2+</sup> . <i>Experimental Physiology</i> , 2021, 106, 1196-1207.	0.9	3
305	TrkB signaling contributes to transdiaphragmatic pressure generation in aged mice. <i>Journal of Neurophysiology</i> , 2021, 125, 1157-1163.	0.9	3
306	Mitochondrial Excitation-Energy Coupling in Airway Smooth Muscle. <i>Respiratory Medicine</i> , 2014, , 93-116.	0.1	3

#	ARTICLE	IF	CITATIONS
307	The Role of Mitochondria in Calcium Regulation in Airway Smooth Muscle. , 2014, , 211-234.		3
308	Frequencyâ€domain analysis of diaphragm muscle EMG activity across ventilatory and nonâ€ventilatory motor behaviors. FASEB Journal, 2011, 25, 1111.24.	0.2	3
309	Effect of Halothane on cADP-Ribose-induced Ca <sup>2+</sup> Release System in Tracheal Smooth Muscle. Anesthesiology, 2002, 97, 1022-1024.	1.3	2
310	Calcium-independent activation of skinned cardiac muscle by secophalloidin. FEBS Letters, 2002, 519, 201-204.	1.3	2
311	Secophalloidin as a novel activator of skinned cardiac muscle. Biochemical and Biophysical Research Communications, 2003, 301, 646-649.	1.0	2
312	Foreword to Special Issue: Spinal cord injuryâ€Neuroplasticity and recovery of respiratory function. Respiratory Physiology and Neurobiology, 2009, 169, 83-84.	0.7	2
313	Transforming Medicine Through Physiology. Physiology, 2015, 30, 173-174.	1.6	2
314	Physiology in Perspective: Homeostasis and Survival. Physiology, 2018, 33, 84-85.	1.6	2
315	Physiology in Perspective: Physiology is Everywhere. Physiology, 2019, 34, 167-168.	1.6	2
316	Physiology in Perspective: Physiological Systems Respond to Time. Physiology, 2020, 35, 84-85.	1.6	2
317	Cardiovascular Effects of Epinephrine During Experimental Hypothermia (32Â°C) With Spontaneous Circulation in an Intact Porcine Model. Frontiers in Physiology, 2021, 12, 718667.	1.3	2
318	Inactivity Alters Structural and Functional Properties of the Neuromuscular Junction. , 1996, , 59-66.		2
319	Skeletal Muscle Changes in Hypothyroidism. , 2009, , 1087-1101.		2
320	BDNF/TrkB Signaling Increases Autophagy Flux in Cervical Spinal Cord. FASEB Journal, 2020, 34, 1-1.	0.2	2
321	Biomechanics and Mechanotransduction in Cells and Tissues. Journal of Applied Physiology, 2005, 98, 1153-1153.	1.2	2
322	Adenoâ€associated viral delivery of TrkB receptor enhances functional recovery after cervical spinal hemisection. FASEB Journal, 2012, 26, lb822.	0.2	2
323	Transdiaphragmatic pressure measurements reveal ageâ€related diaphragm muscle dysfunction during nonâ€ventilatory behaviors. FASEB Journal, 2013, 27, 719.7.	0.2	2
324	Cooling to Hypothermic Circulatory Arrest by Immersion vs. Cardiopulmonary Bypass (CPB): Worse Outcome After Rewarming in Immersion Cooled Pigs. Frontiers in Physiology, 2022, 13, 862729.	1.3	2

#	ARTICLE	IF	CITATIONS
325	Periodicities in physiological activity at puberty in the female rat. <i>Experimental Neurology</i> , 1978, 61, 421-431.	2.0	1
326	Lung edema clearance: 20 years of progress. <i>Journal of Applied Physiology</i> , 2002, 93, 1183-1184.	1.2	1
327	Influence of sex hormones on the neuromuscular junction. <i>Advances in Molecular and Cell Biology</i> , 2004, 34, 183-194.	0.1	1
328	Mitochondrial Kinetics In Human Airway Smooth Muscle. , 2011, , .		1
329	Physiology in Perspective: Cell Migration and the Regenerative Process. <i>Physiology</i> , 2013, 28, 368-369.	1.6	1
330	Design Principles for Life. <i>Physiology</i> , 2013, 28, 7-8.	1.6	1
331	<i>Physiology's</i> Impact: Discovering Life. <i>Physiology</i> , 2013, 28, 62-63.	1.6	1
332	<i>Physiology's</i> Impact: Exploring the Mysteries of Life. <i>Physiology</i> , 2013, 28, 272-273.	1.6	1
333	Living a Healthier Lifestyle. <i>Physiology</i> , 2014, 29, 302-303.	1.6	1
334	Physiology in Perspective: The Life We Take for Granted. <i>Physiology</i> , 2014, 29, 6-7.	1.6	1
335	Physiology in Perspective: Adaptive Responses: Changing to Survive. <i>Physiology</i> , 2014, 29, 157-158.	1.6	1
336	Life at the Extreme: Physiological Adaptation. <i>Physiology</i> , 2015, 30, 84-85.	1.6	1
337	Adapt or Perish. <i>Physiology</i> , 2015, 30, 258-259.	1.6	1
338	Physiology in Perspective: Stem Cells and Regenerative Physiology. <i>Physiology</i> , 2018, 33, 14-15.	1.6	1
339	Physiology in Perspective: Understanding the Aging Process. <i>Physiology</i> , 2018, 33, 372-373.	1.6	1
340	Physiology in Perspective: Of Mice and Men. <i>Physiology</i> , 2019, 34, 3-4.	1.6	1
341	Physiology in Perspective: The New Normal—Life in a Pandemic. <i>Physiology</i> , 2020, 35, 220-221.	1.6	1
342	Dynamic Cytosolic Ca <sup>2+</sup> and Force Responses to Muscarinic Stimulation in Airway Smooth Muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021, 321, L91-L101.	1.3	1

#	ARTICLE	IF	CITATIONS
343	Physiology in Perspective: Eat, Sleep, Surviveâ€”Natural Cycle of Life. <i>Physiology</i> , 2021, 36, 201-202.	1.6	1
344	Inactivity-induced remodeling of neuromuscular junctions in rat diaphragmatic muscle. , 1999, 22, 307.		1
345	Fixed Sample Entropy to Remove Cardiac Noise for Improved Assessments of Diaphragm Muscle Electrical Activity. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	1
346	Effect of shortâ€”term malnutrition on mixed muscle, myosin heavy chain, sarcoplasmic and mitochondrial protein synthesis rates in rat diaphragm muscle. <i>FASEB Journal</i> , 2007, 21, A332.	0.2	1
347	Motor Unit Recruitment Order in Diaphragm Muscle Following Spinal Cord Injury. <i>FASEB Journal</i> , 2010, 24, 1064.15.	0.2	1
348	Functional Development of Respiratory Muscles. , 2011, , 937-952.		1
349	TrkB kinase activity is necessary for spontaneous recovery of ipsilateral rhythmic phrenic activity following cervical spinal cord hemisection. <i>FASEB Journal</i> , 2013, 27, 719.5.	0.2	1
350	Conceptual Model of Ventilatory Muscle Recruitment and Diaphragmatic Fatigue. , 1989, , 113-123.		1
351	The Effect of TNFâ€” $\alpha$ on Mitochondrial Morphology in Model (NSCâ€”34) Motor Neurons. <i>FASEB Journal</i> , 2019, 33, 542.17.	0.2	1
352	Enhanced Blood Clotting After Rewarming From Experimental Hypothermia in an Intact Porcine Model. <i>Frontiers in Physiology</i> , 2022, 13, 901908.	1.3	1
353	Autoregulation of Cerebral Blood Flow During 3-h Continuous Cardiopulmonary Resuscitation at 27Â°C. <i>Frontiers in Physiology</i> , 0, 13, .	1.3	1
354	Commentary. <i>Journal of Applied Physiology</i> , 1999, 87, 1988-1989.	1.2	0
355	Characterization of secophalloidin-induced force loss in cardiac myofibrils. <i>Journal of Muscle Research and Cell Motility</i> , 2009, 30, 209-216.	0.9	0
356	Promoting a Central Role for Physiology in Research and Education Worldwide. <i>Physiology</i> , 2010, 25, 332-333.	1.6	0
357	Communicating with Our External and Internal Environments. <i>Physiology</i> , 2012, 27, 185-186.	1.6	0
358	Design Principles for Life. <i>Physiology</i> , 2012, 27, 330-330.	1.6	0
359	Exploring How Cells Communicate. <i>Physiology</i> , 2013, 28, 140-141.	1.6	0
360	Rebuttal from Gary C. Sieck and Carlos B. Mantilla. <i>Journal of Physiology</i> , 2013, 591, 5265-5265.	1.3	0

#	ARTICLE	IF	CITATIONS
361	Physiology's Impact: Discovering Life. <i>Physiology</i> , 2013, 28, 138-139.	1.6	0
362	Physiology in Perspective: Addressing Cardiovascular Health and Disease. <i>Physiology</i> , 2013, 28, 214-215.	1.6	0
363	Physiology: A World Perspective. <i>Physiology</i> , 2013, 28, 210-211.	1.6	0
364	<i>Physiology's</i> Impact: Applying Mathematics and Advanced Technologies. <i>Physiology</i> , 2013, 28, 363-365.	1.6	0
365	<i>Physiology's</i> Impact: Discovering Life. <i>Physiology</i> , 2013, 28, 212-213.	1.6	0
366	Living Under Extreme Conditions. <i>Physiology</i> , 2014, 29, 386-387.	1.6	0
367	Physiology in Perspective: Why Do We Continue to Ignore Sex Differences?. <i>Physiology</i> , 2015, 30, 406-407.	1.6	0
368	Integrative and Adaptive Responses. <i>Physiology</i> , 2015, 30, 6-7.	1.6	0
369	Physiology in Perspective: The Air We Breathe: Providing O <sub>2</sub> for Survival. <i>Physiology</i> , 2015, 30, 338-339.	1.6	0
370	Physiology in Perspective: The Body's Tubes Sustain Life but Underlie Disease. <i>Physiology</i> , 2016, 31, 314-315.	1.6	0
371	Physiology in Perspective: We Learn From Evolutionary/Comparative Physiology. <i>Physiology</i> , 2016, 31, 390-391.	1.6	0
372	Physiology in Perspective: Pursuing the Enchanted Loom of Motor Control. <i>Physiology</i> , 2016, 31, 81-82.	1.6	0
373	Physiology in Perspective: Sensing Our Environment Triggers Physiological and Evolutionary Adaptation. <i>Physiology</i> , 2016, 31, 168-169.	1.6	0
374	Physiology in Perspective: Physiological Transitions During Our Lifespan. <i>Physiology</i> , 2016, 31, 248-249.	1.6	0
375	Physiology in Perspective: Fulfilling the Promise of Tissue Engineering. <i>Physiology</i> , 2016, 31, 5-6.	1.6	0
376	Physiology in Perspective: Physiology Provides Insight into Health. <i>Physiology</i> , 2017, 32, 408-409.	1.6	0
377	Physiology in Perspective: The Value of Integrative Physiology. <i>Physiology</i> , 2017, 32, 344-345.	1.6	0
378	Physiology in Perspective: The Breath of Life. <i>Physiology</i> , 2018, 33, 300-301.	1.6	0

#	ARTICLE	IF	CITATIONS
379	Physiology in Perspective: Physiology Without Borders. <i>Physiology</i> , 2019, 34, 300-301.	1.6	0
380	Physiology in Perspective: Anatomy and Physiology—Structure and Function in Biology. <i>Physiology</i> , 2019, 34, 379-380.	1.6	0
381	Physiology in Perspective: The Dilemma of Muscle Weakness. <i>Physiology</i> , 2019, 34, 230-231.	1.6	0
382	Physiology in Perspective: Responding to a Changing Environment. <i>Physiology</i> , 2019, 34, 84-85.	1.6	0
383	Physiology in Perspective: Complexity and Emergence of Function. <i>Physiology</i> , 2020, 35, 2-3.	1.6	0
384	Physiology in Perspective: A Challenging Time. <i>Physiology</i> , 2020, 35, 361-362.	1.6	0
385	Physiology in Perspective: In a World of Social Distancing. <i>Physiology</i> , 2020, 35, 158-159.	1.6	0
386	Physiology in Perspective: The Rhythm of Life—Circadian Patterns in Physiology. <i>Physiology</i> , 2021, 36, 5-6.	1.6	0
387	Physiology in Perspective: Harnessing Homeostasis. <i>Physiology</i> , 2021, 36, 71-72.	1.6	0
388	Improving gas exchange and exercise tolerance in mild COPD patients. <i>Journal of Physiology</i> , 2021, 599, 1943-1944.	1.3	0
389	Aging and TrkB Signaling Effects on Autophagy Flux in Cervical Spinal Cord. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
390	Congenital Disruption of Glycinergic Signaling Results in Fewer Phrenic Motor Neurons and Impaired Diaphragm Neuromotor Control. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
391	Physiology in Perspective: Insulin—100 Years of Physiological Discovery. <i>Physiology</i> , 2021, 36, 132-133.	1.6	0
392	Effects of TNF $\alpha$ on Dynamic Cytosolic Ca <sup>2+</sup> and Force Responses to Muscarinic Stimulation in Airway Smooth Muscle. <i>Frontiers in Physiology</i> , 2021, 12, 730333.	1.3	0
393	Reflections of an Outgoing Editor-in-Chief. <i>Physiology</i> , 2021, 36, 196-196.	1.6	0
394	A Century of Insulin: Outstanding Physiological Breakthroughs. <i>Physiology</i> , 2021, 36, 197-200.	1.6	0
395	Rewarming With Closed Thoracic Lavage Following 3-h CPR at 27°C Failed to Reestablish a Perfusing Rhythm. <i>Frontiers in Physiology</i> , 2021, 12, 741241.	1.3	0
396	Functional Development of Respiratory Muscles. , 2004, , 848-863.		0

#	ARTICLE	IF	CITATIONS
397	Lung growth and repair. Journal of Applied Physiology, 2004, 97, 1169-1169.	1.2	0
398	NEUROMUSCULAR TRANSMISSION SAFETY FACTOR VARIES ACROSS DIAPHRAGM MUSCLE FIBER TYPE. FASEB Journal, 2006, 20, A1210.	0.2	0
399	Left ventricular pressure-volume relationship following rewarming from experimental hypothermia in rat. FASEB Journal, 2006, 20, A1197.	0.2	0
400	DIAPHRAGM MUSCLE PROTEIN UBIQUITINATION FOLLOWING UNILATERAL DENERVATION. FASEB Journal, 2006, 20, A803.	0.2	0
401	The physiologic response to isoproterenol during hypothermia and rewarming. FASEB Journal, 2007, 21, A1256.	0.2	0
402	Vascular Smooth Muscle Cell Calcium Sensitivity Is Decreased During Lipopolysaccharide-Mediated Inflammation.. FASEB Journal, 2007, 21, A848.	0.2	0
403	Effects of epinephrine and superoxide dismutase on cardiac myocyte function during rewarming following hypothermia. FASEB Journal, 2007, 21, A582.	0.2	0
404	Recruitment order of diaphragm muscle (DIAM) motor units is maintained with the restoration of rhythmic DIAM activity following cervical C2 spinal cord hemisection. FASEB Journal, 2007, 21, A559.	0.2	0
405	Phrenic motoneuron expression of neurotrophins and their receptor TrkB following cervical C2 spinal cord hemisection. FASEB Journal, 2007, 21, A560.	0.2	0
406	Altered cardiac mitochondrial Ca <sup>2+</sup> regulation during rewarming following hypothermia. FASEB Journal, 2007, 21, A582.	0.2	0
407	Ca <sup>2+</sup> /Calmodulin-dependent protein kinase regulation of sarcoplasmic reticulum Ca <sup>2+</sup> uptake in airway smooth muscle. FASEB Journal, 2008, 22, 764.17.	0.2	0
408	Cx40 modulates agonist-mediated vasoconstriction during lipopolysaccharide induced inflammation. FASEB Journal, 2008, 22, 1144.3.	0.2	0
409	Neuregulin minimizes protein degradation induced by dexamethasone. FASEB Journal, 2008, 22, 754.4.	0.2	0
410	STIM1 regulates store operated calcium entry (SOCE) in human airway smooth muscle. FASEB Journal, 2008, 22, 1213.3.	0.2	0
411	Spinal cord hemisection disrupts descending neuregulin input to phrenic motoneurons. FASEB Journal, 2008, 22, 1232.5.	0.2	0
412	Neuregulin-1: a trophic factor for phrenic motoneurons. FASEB Journal, 2009, 23, 783.4.	0.2	0
413	Enhanced three-dimensional visualization of rat phrenic motoneurons.. FASEB Journal, 2009, 23, 783.3.	0.2	0
414	Lipopolysaccharide-induced inflammation reduces tyrosine phosphorylation of cardiac connexin 43. FASEB Journal, 2009, 23, 805.14.	0.2	0



#	ARTICLE	IF	CITATIONS
415	Recruitment Order of Diaphragm Motor Units During Different Respiratory Behaviors. FASEB Journal, 2009, 23, 1010.6.	0.2	0
416	Differing responses to TNF in HeLa cells expressing vascular connexins. FASEB Journal, 2009, 23, 594.12.	0.2	0
417	Unilateral denervation changes NRG/ErbB signaling in adult rat diaphragm muscle. FASEB Journal, 2009, 23, 782.8.	0.2	0
418	Complexity in intracellular regulation of protein balance following unilateral diaphragm denervation. FASEB Journal, 2010, 24, 1046.2.	0.2	0
419	Vascular Gap Junction Cx37 Uncoupling By Tumor Necrosis Factor Is Dependent On ZO1. FASEB Journal, 2010, 24, 776.3.	0.2	0
420	Neuregulin improves neuromuscular transmission in diaphragm muscle of young rats. FASEB Journal, 2010, 24, 1064.12.	0.2	0
421	Neuregulin reduces protein degradation in skeletal muscle in a PI3 kinase/Akt and MAP kinase dependent manner. FASEB Journal, 2010, 24, .	0.2	0
422	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
423	Dynamic [Ca <sup>2+</sup> ] <sub>i</sub> regulation in human airway smooth muscle by STIM and Orai1 proteins. FASEB Journal, 2010, 24, 1062.8.	0.2	0
424	Dynamic changes in cardiovascular function during diving and decompression at different core temperatures. FASEB Journal, 2011, 25, 1b560.	0.2	0
425	Nonlinear Time-Domain Analysis of EMG Activity Reveals the Timing of Motor Unit Recruitment in Diaphragm Muscle. FASEB Journal, 2012, 26, 1b828.	0.2	0
426	Role of bone marrow-derived mesenchymal stem cells in recovery following cervical spinal hemisection. FASEB Journal, 2012, 26, 1147.1.	0.2	0
427	Reduced ventilatory function and sarcopenia of the diaphragm muscle in a mouse model of advanced aging. FASEB Journal, 2012, 26, 1b779.	0.2	0
428	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
429	A Reflection from New Editor-in-Chief. Physiology, 2012, 27, 180-180.	1.6	0
430	Orderly Recruitment of Diaphragm Motor Units Across Ventilatory and Non-Ventilatory Motor Behaviors. FASEB Journal, 2013, 27, 719.8.	0.2	0
431	Glutamatergic neurotransmission plays a role in BDNF/TrkB-induced enhancement of functional recovery after cervical spinal hemisection. FASEB Journal, 2013, 27, 719.6.	0.2	0
432	Fluorescent Microspheres Injected into Skeletal Muscle to Observe Fluid Movement in Interstitial Space. FASEB Journal, 2015, 29, .	0.2	0

#	ARTICLE	IF	CITATIONS
433	Assessment of Diaphragm EMG Activity Recovery Following Upper Cervical Spinal Cord Injury. FASEB Journal, 2015, 29, 659.9.	0.2	0
434	Diaphragm Muscle Sarcopenia is Present in Both Male and Female Mice. FASEB Journal, 2015, 29, 660.7.	0.2	0
435	A Novel Approach to Target Motoneurons Using Mesoporous Silica Nanoparticles. FASEB Journal, 2015, 29, 660.9.	0.2	0
436	Mesenchymal Stem Cell Survival after Intraspinal Transplantation. FASEB Journal, 2015, 29, 1013.4.	0.2	0
437	A Novel Method to Quantify Diaphragm Muscle Fiber Type Clustering in the Context of Sarcopenia. FASEB Journal, 2015, 29, 660.8.	0.2	0
438	Stress Responses Initiated in Cardiomyocytes during Hypothermia-Induced Rewarming Shock. FASEB Journal, 2015, 29, 946.5.	0.2	0
439	Unilateral Denervation of the Diaphragm Muscle Increases Central Drive Only During Ventilatory Behaviors. FASEB Journal, 2015, 29, 1013.5.	0.2	0
440	Pro-inflammatory Cytokine TNF $\alpha$ Induces Endoplasmic Reticulum Stress Through Reactive Oxygen Species Generation in Human Airway Smooth Muscle Cells. FASEB Journal, 2018, 32, .	0.2	0
441	Dynamic Assessment of Ca <sup>2+</sup> Sensitivity of Isometric Force in Intact Airway Smooth Muscle Using Phase Loop Plots. FASEB Journal, 2018, 32, 770.6.	0.2	0
442	Oxidative Stress-Induced Changes in Ca <sup>2+</sup> Sensitivity of Cardiomyocytes Do Not Recover. FASEB Journal, 2018, 32, 583.1.	0.2	0
443	Abstract 5232: 1,25-Dihydroxyvitamin D <sub>3</sub> mitigates lung cancer cell mediated mitochondrial dysfunction in human skeletal muscle. , 2018, , .		0
444	Effect of TNF $\alpha$ on Mitochondrial Function and Mitochondrial Biogenesis in Human Airway Smooth Muscle. FASEB Journal, 2019, 33, 734.16.	0.2	0
445	Acute Impact of Disrupting BDNF/TrkB Signaling on Diaphragm Muscle Force Generation across Motor Behaviors. FASEB Journal, 2019, 33, 844.13.	0.2	0
446	Tunicamycin-Induced ER Stress Effect on Cardiac Contractility. FASEB Journal, 2019, 33, lb598.	0.2	0
447	The Effects of TNF $\alpha$ on Mitochondria Morphology are Mediated by Endoplasmic Reticulum Stress in Human Airway Smooth Muscle Cells. FASEB Journal, 2019, 33, 734.15.	0.2	0
448	Aging effects on oxidative capacity in type-identified diaphragm muscle fibers. FASEB Journal, 2019, 33, 539.3.	0.2	0
449	Ischemia/Reperfusion-Induced Reduction of Ca <sup>2+</sup> Sensitivity in Isolated Cardiomyocytes. FASEB Journal, 2019, 33, 690.1.	0.2	0
450	The Role of TrkB Kinase Activity in Stabilization of Presynaptic Terminals Wanes in Old Age. FASEB Journal, 2019, 33, 844.11.	0.2	0

#	ARTICLE	IF	CITATIONS
451	Age does not increase muscle fatigue resistance of the diaphragm. FASEB Journal, 2019, 33, 538.4.	0.2	0
452	Distribution of Ipsilateral and Contralateral Glutamatergic Synaptic Inputs to Phrenic Motor Neurons. FASEB Journal, 2019, 33, 844.14.	0.2	0
453	The Diaphragm Muscle. , 2019, , 7-20.		0
454	Mechanisms Underlying TNF $\alpha$ -Induced Hyperreactivity in Airway Smooth Muscle. FASEB Journal, 2020, 34, 1-1.	0.2	0
455	Inhibiting Cytoskeletal Remodeling Increases Tension Cost in Airway Smooth Muscle. FASEB Journal, 2020, 34, 1-1.	0.2	0
456	TNF $\alpha$ Exposure Decreases Mitochondrial O <sub>2</sub> Consumption in Motor Neurons. FASEB Journal, 2020, 34, 1-1.	0.2	0
457	Autophagy Impairment in Aging Motor Neurons. FASEB Journal, 2020, 34, 1-1.	0.2	0
458	Age-Related Loss of Phrenic Motor Neurons: Reduced Myogenic Influence?. FASEB Journal, 2020, 34, 1-1.	0.2	0
459	Size-Dependence of Mitochondrial Density & Morphology in Phrenic Motor Neurons. FASEB Journal, 2020, 34, 1-1.	0.2	0
460	Glutamatergic Neurotransmission at Rat Phrenic Motor Neurons. FASEB Journal, 2020, 34, 1-1.	0.2	0
461	Disruption of BDNF/TrkB Signaling Alters Glutamatergic mRNA Expression at Phrenic Motor Neurons. FASEB Journal, 2020, 34, 1-1.	0.2	0
462	TNF $\alpha$ Increases Mitochondrial Biogenesis in Motor Neurons. FASEB Journal, 2020, 34, 1-1.	0.2	0
463	Measuring Cardiac Troponin I Phosphorylation in Viable Primary Cardiomyocytes. FASEB Journal, 2020, 34, 1-1.	0.2	0
464	Diaphragm Muscle Weakness Contributes to Ventilatory Deficits in an Animal Model of Congenital Diaphragmatic Hernia. FASEB Journal, 2020, 34, 1-1.	0.2	0
465	TNF $\alpha$ Decreases Succinate Dehydrogenase Activity in Motor Neurons. FASEB Journal, 2020, 34, 1-1.	0.2	0
466	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
467	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
468	Mitochondria Adapt to Diaphragm Muscle Inactivity Imposed by Cervical Spinal Cord Injury. FASEB Journal, 2022, 36, .	0.2	0

#	ARTICLE	IF	CITATIONS
469	Automated Evaluation of Respiratory Signals to Provide Insight Into Respiratory Drive. FASEB Journal, 2022, 36, .	0.2	0
470	Aging Selectively Reduces Mitochondrial Volume Density and Respiratory Capacity in Type IIX/IIb Diaphragm Muscle Fibers. FASEB Journal, 2022, 36, .	0.2	0
471	Single Cell Assessment of Mitochondrial Function. FASEB Journal, 2022, 36, .	0.2	0
472	Impact of Aging on Fiber Cross-sectional Areas and Contractile and Fatigue properties of Intrinsic and Extrinsic Tongue Muscles. FASEB Journal, 2022, 36, .	0.2	0
473	Age-related Autophagy Impairment in Cervical and Lumbar Motor Neurons. FASEB Journal, 2022, 36, .	0.2	0
474	Postnatal Phrenic Motor Neuron and Diaphragm Maturation in the Mouse. FASEB Journal, 2022, 36, .	0.2	0
475	Induction of Autophagy in Motor Neurons with Lanthionine Ketamine Analogs. FASEB Journal, 2022, 36, .	0.2	0
476	Autophagy Impairment and Sarcopenia in Type I Identified Muscle Fibers of Aging Extensor Digitorum Longus Muscle. FASEB Journal, 2022, 36, .	0.2	0
477	Changes in Cardiac and Vascular Contractile Protein in a Rat Model of Heart Failure with Preserved Ejection Fraction. FASEB Journal, 2022, 36, .	0.2	0
478	Force and Shortening Velocity are Reduced in 24-month Fischer 344 Rats. FASEB Journal, 2022, 36, .	0.2	0
479	TNF $\alpha$ Reduces the Maximum Respiratory Capacity of Mitochondria in Human Airway Smooth Muscle Cells. FASEB Journal, 2022, 36, .	0.2	0
480	TNF $\alpha$ Mediated Endoplasmic Reticulum Stress Promotes Differential Phosphorylation of DRP1 and Mitochondrial Fragmentation in Human Airway Smooth Muscle Cells. FASEB Journal, 2022, 36, .	0.2	0