

Gary C Sieck

List of Publications by Year in descending order

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480
papers

11,862
citations

26630

56
h-index

56724

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.	2.5	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.	5.6	196
4	Effects of voluntary activity and genetic selection on aerobic capacity in house mice (<i>Mus musculus</i>). <i>Journal of Applied Physiology</i> , 2002, 92, 50-62.	2.5	191
5	Mitochondrial Dysfunction in Airway Disease. <i>Chest</i> , 2017, 152, 618-626.	0.8	168
6	1,25-Dihydroxyvitamin D ₃ Regulates Mitochondrial Oxygen Consumption and Dynamics in Human Skeletal Muscle Cells. <i>Journal of Biological Chemistry</i> , 2016, 291, 1514-1528.	3.4	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.	2.5	159
8	Pkd2 haploinsufficiency alters intracellular calcium regulation in vascular smooth muscle cells. <i>Human Molecular Genetics</i> , 2003, 12, 1875-1880.	2.9	156
9	Mechanism of Endothelial Dysfunction in Apolipoprotein E-deficient Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2001, 21, 1017-1022.	2.4	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.	2.9	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 ²⁺] _i in porcine tracheal smooth muscle. <i>American Journal of Physiology - Cell Physiology</i> , 1998, 274, C1653-C1660.	4.6	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.	5.6	123
14	Caveolae Targeting and Regulation of Large Conductance Ca ²⁺ -activated K ⁺ Channels in Vascular Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 11656-11664.	3.4	121
15	Role of Transient Receptor Potential C3 in TNF- α -Enhanced Calcium Influx in Human Airway Myocytes. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2006, 35, 243-251.	2.9	121
16	Diaphragm motor unit recruitment in rats. <i>Respiratory Physiology and Neurobiology</i> , 2010, 173, 101-106.	1.6	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.	3.6	114
18	Skeletal muscle force and actomyosin ATPase activity reduced by nitric oxide donor. <i>Journal of Applied Physiology</i> , 1997, 83, 1326-1332.	2.5	108

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19	Retrograde labeling of phrenic motoneurons by intrapleural injection. <i>Journal of Neuroscience Methods</i> , 2009, 182, 244-249.	2.5	107
20	Diaphragm muscle sarcopenia in aging mice. <i>Experimental Gerontology</i> , 2013, 48, 881-887.	2.8	107
21	Age-related remodeling of neuromuscular junctions on type-identified diaphragm fibers. , 1998, 21, 887-895.		102
22	Store-operated Ca ²⁺ entry in porcine airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004, 286, L909-L917.	2.9	98
23	Motoneuron BDNF/TrkB signaling enhances functional recovery after cervical spinal cord injury. <i>Experimental Neurology</i> , 2013, 247, 101-109.	4.1	92
24	[Ca ²⁺] _i Reduction Increases Cellular Proliferation and Apoptosis in Vascular Smooth Muscle Cells. <i>Circulation Research</i> , 2005, 96, 873-880.	4.5	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.	2.2	88
26	Metabolic and phenotypic adaptations of diaphragm muscle fibers with inactivation. <i>Journal of Applied Physiology</i> , 1997, 82, 1145-1153.	2.5	87
27	Development of Sinus Arrhythmia During Sleeping and Waking States in Normal Infants. <i>Sleep</i> , 1978, 1, 33-48.	1.1	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.	2.5	85
30	PHYSIOLOGICAL EFFECTS OF DIAPHRAGM MUSCLE DENERVATION AND DISUSE. <i>Clinics in Chest Medicine</i> , 1994, 15, 641-659.	2.1	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.	2.1	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.	2.5	81
33	Neurotrophins improve neuromuscular transmission in the adult rat diaphragm. <i>Muscle and Nerve</i> , 2004, 29, 381-386.	2.2	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.	2.5	80
35	Effect of proinflammatory cytokines on regulation of sarcoplasmic reticulum Ca ²⁺ reuptake in human airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2009, 297, L26-L34.	2.9	79
36	The Role of Cyclic-ADP-Ribose-Signaling Pathway in Oxytocin-Induced Ca ²⁺ Transients in Human Myometrium Cells. <i>Endocrinology</i> , 2004, 145, 881-889.	2.8	78

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37	Wireless Instantaneous Neurotransmitter Concentration System [®] -based amperometric detection of dopamine, adenosine, and glutamate for intraoperative neurochemical monitoring. <i>Journal of Neurosurgery</i> , 2009, 111, 701-711.	1.6	78
38	Phrenic motor unit recruitment during ventilatory and non-ventilatory behaviors. <i>Respiratory Physiology and Neurobiology</i> , 2011, 179, 57-63.	1.6	75
39	Functional impact of sarcopenia in respiratory muscles. <i>Respiratory Physiology and Neurobiology</i> , 2016, 226, 137-146.	1.6	75
40	Diaphragm Muscle: Structural and Functional Organization. <i>Clinics in Chest Medicine</i> , 1988, 9, 195-210.	2.1	74
41	Fiber type composition of muscle units in the cat diaphragm. <i>Neuroscience Letters</i> , 1989, 97, 29-34.	2.1	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.	3.4	72
43	Breathing: Motor Control of Diaphragm Muscle. <i>Physiology</i> , 2018, 33, 113-126.	3.1	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.	2.5	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.	1.6	68
47	Caveolin-1 regulation of store-operated Ca ²⁺ influx in human airway smooth muscle. <i>European Respiratory Journal</i> , 2012, 40, 470-478.	6.7	68
48	Synaptic vesicle pools at diaphragm neuromuscular junctions vary with motoneuron soma, not axon terminal, inactivity. <i>Neuroscience</i> , 2007, 146, 178-189.	2.3	67
49	Denervation effects on myonuclear domain size of rat diaphragm fibers. <i>Journal of Applied Physiology</i> , 2006, 100, 1617-1622.	2.5	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.	2.9	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.	2.5	64
52	Invited Review: Mechanisms underlying motor unit plasticity in the respiratory system. <i>Journal of Applied Physiology</i> , 2003, 94, 1230-1241.	2.5	64
53	Structure [®] -activity relationships in rodent diaphragm muscle fibers vs. neuromuscular junctions. <i>Respiratory Physiology and Neurobiology</i> , 2012, 180, 88-96.	1.6	63
54	Changes in cardiovascular β^2 -adrenoceptor responses during hypothermia. <i>Cryobiology</i> , 2008, 57, 246-250.	0.7	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.	4.1	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.	5.6	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.	2.0	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.	2.5	59
60	The Ventilatory Muscles. <i>Chest</i> , 1982, 82, 761-766.	0.8	58
61	Cross-bridge kinetics in respiratory muscles. <i>European Respiratory Journal</i> , 1997, 10, 2147-2158.	6.7	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.	2.5	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.	2.9	58
64	<i>Pasteurella haemolytica</i> leukotoxin and endotoxin induced cytokine gene expression in bovine alveolar macrophages requires NF- κ B activation and calcium elevation. <i>Microbial Pathogenesis</i> , 1999, 26, 263-273.	2.9	57
65	Phrenic motor neuron loss in aged rats. <i>Journal of Neurophysiology</i> , 2018, 119, 1852-1862.	1.8	57
66	Sleep influences on diaphragmatic motor unit discharge. <i>Experimental Neurology</i> , 1984, 85, 316-335.	4.1	56
67	Ageing and neurotrophic signalling effects on diaphragm neuromuscular function. <i>Journal of Physiology</i> , 2015, 593, 431-440.	2.9	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.	2.9	56
69	Spatial and temporal aspects of ACh-induced [Ca ²⁺] _i oscillations in porcine tracheal smooth muscle. <i>Cell Calcium</i> , 2000, 27, 153-162.	2.4	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.	2.5	55
71	Prolonged C ₂ 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.	2.5	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.	2.5	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.	1.6	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.	1.7	54
75	Inflammation alters regional mitochondrial Ca ²⁺ in human airway smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 303, C244-C256.	4.6	53
76	Pkd2+ ⁺ 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.	6.1	51
77	Regulation of store-operated Ca ²⁺ entry by CD38 in human airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008, 294, L378-L385.	2.9	51
78	Neuromuscular adaptations to respiratory muscle inactivity. <i>Respiratory Physiology and Neurobiology</i> , 2009, 169, 133-140.	1.6	51
79	ATP consumption rate per cross bridge depends on myosin heavy chain isoform. <i>Journal of Applied Physiology</i> , 2003, 94, 2188-2196.	2.5	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.	2.5	50
81	Impact of aging on diaphragm muscle function in male and female Fischer 344 rats. <i>Physiological Reports</i> , 2018, 6, e13786.	1.7	50
82	A Novel and Selective Poly (ADP-Ribose) Polymerase Inhibitor Ameliorates Chemotherapy-Induced Painful Neuropathy. <i>PLoS ONE</i> , 2013, 8, e54161.	2.5	50
83	Characterization of Primary Cilia in Human Airway Smooth Muscle Cells. <i>Chest</i> , 2009, 136, 561-570.	0.8	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.	2.5	48
85	Phrenic motoneuron expression of serotonergic and glutamatergic receptors following upper cervical spinal cord injury. <i>Experimental Neurology</i> , 2012, 234, 191-199.	4.1	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.	1.6	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.	2.5	47
89	Synaptic Vesicle Distribution and Release at Rat Diaphragm Neuromuscular Junctions. <i>Journal of Neurophysiology</i> , 2007, 98, 478-487.	1.8	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.	2.5	47

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91	Sodium-Calcium Exchange in Intracellular Calcium Handling of Human Airway Smooth Muscle. PLoS ONE, 2011, 6, e23662.	2.5	47
92	Neuromuscular transmission failure during postnatal development. Neuroscience Letters, 1991, 125, 34-36.	2.1	46
93	Isotonic contractile and fatigue properties of developing rat diaphragm muscle. Journal of Applied Physiology, 1998, 84, 1260-1268.	2.5	46
94	Key aspects of phrenic motoneuron and diaphragm muscle development during the perinatal period. Journal of Applied Physiology, 2008, 104, 1818-1827.	2.5	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.	4.1	44
97	Analysis of muscle fiber clustering in the diaphragm muscle of sarcopenic mice. Muscle and Nerve, 2015, 52, 76-82.	2.2	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.	2.5	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.	4.1	43
101	Cyclic nucleotide regulation of store-operated Ca ²⁺ influx in airway smooth muscle. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2006, 290, L278-L283.	2.9	43
102	Role of neurotrophins in recovery of phrenic motor function following spinal cord injury. Respiratory Physiology and Neurobiology, 2009, 169, 218-225.	1.6	43
103	Mechanisms underlying hypothermia-induced cardiac contractile dysfunction. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H890-H897.	3.2	43
104	Respiratory inhibition induced by transient hypertension during sleep in unrestrained cats. Experimental Neurology, 1985, 90, 173-186.	4.1	42
105	Diaphragm neuromuscular transmission failure in aged rats. Journal of Neurophysiology, 2019, 122, 93-104.	1.8	42
106	Respiratory muscle plasticity. Respiratory Physiology and Neurobiology, 2005, 147, 235-251.	1.6	41
107	Effects of hypothyroidism on maximum specific force in rat diaphragm muscle fibers. Journal of Applied Physiology, 2002, 92, 1506-1514.	2.5	40
108	Diaphragm muscle function following midcervical contusion injury in rats. Journal of Applied Physiology, 2019, 126, 221-230.	2.5	40

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109	Neuregulin-1 at synapses on phrenic motoneurons. <i>Journal of Comparative Neurology</i> , 2010, 518, 4213-4225.	1.6	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.	2.2	38
111	Nitric oxide impairs Ca^{2+} activation and slows cross-bridge cycling kinetics in skeletal muscle. <i>Journal of Applied Physiology</i> , 2001, 91, 2233-2239.	2.5	38
112	Endoplasmic Reticulum Stress and Mitochondrial Function in Airway Smooth Muscle. <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 374.	3.7	38
113	Diaphragm electromyographic activity following unilateral midcervical contusion injury in rats. <i>Journal of Neurophysiology</i> , 2017, 117, 545-555.	1.8	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.	4.1	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.	3.2	36
116	Safety factor for neuromuscular transmission at type-identified diaphragm fibers. <i>Muscle and Nerve</i> , 2007, 35, 800-803.	2.2	36
117	Interaction between endoplasmic/sarcoplasmic reticulum stress (ER/SR stress), mitochondrial signaling and Ca^{2+} regulation in airway smooth muscle (ASM). <i>Canadian Journal of Physiology and Pharmacology</i> , 2015, 93, 97-110.	1.4	36
118	Changes in diaphragmatic EMG spectra during hyperpneic loads. <i>Respiration Physiology</i> , 1985, 61, 137-152.	2.7	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.	2.5	35
120	Interactive effects of denervation and malnutrition on diaphragm structure and function. <i>Journal of Applied Physiology</i> , 1996, 81, 2165-2172.	2.5	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.	2.5	34
122	Developmental effects on myonuclear domain size of rat diaphragm fibers. <i>Journal of Applied Physiology</i> , 2008, 104, 787-794.	2.5	34
123	The Impact of Midcervical Contusion Injury on Diaphragm Muscle Function. <i>Journal of Neurotrauma</i> , 2016, 33, 500-509.	3.4	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.	2.9	34
125	TrkB gene therapy by adeno-associated virus enhances recovery after cervical spinal cord injury. <i>Experimental Neurology</i> , 2016, 276, 31-40.	4.1	34
126	Impact of sarcopenia on diaphragm muscle fatigue. <i>Experimental Physiology</i> , 2019, 104, 1090-1099.	2.0	34

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127	Effects of Volatile Anesthetics on Store-operated Ca ²⁺ Influx in Airway Smooth Muscle. <i>Anesthesiology</i> , 2004, 101, 373-380.	2.5	33
128	BDNF effects on functional recovery across motor behaviors after cervical spinal cord injury. <i>Journal of Neurophysiology</i> , 2017, 117, 537-544.	1.8	33
129	A Critical Evaluation of Current Concepts in Cerebral Palsy. <i>Physiology</i> , 2019, 34, 216-229.	3.1	33
130	Gender and Relaxation to C-Type Natriuretic Peptide in Porcine Coronary Arteries. <i>Journal of Cardiovascular Pharmacology</i> , 1998, 32, 5-11.	1.9	33
131	Caveolin-1 knockout mice exhibit airway hyperreactivity. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2012, 303, L669-L681.	2.9	32
132	Role of TrkB kinase activity in aging diaphragm neuromuscular junctions. <i>Experimental Gerontology</i> , 2015, 72, 184-191.	2.8	32
133	Synaptic vesicle cycling at type-identified diaphragm neuromuscular junctions. <i>Muscle and Nerve</i> , 2004, 30, 774-783.	2.2	31
134	Store-operated Ca ²⁺ Influx in Airway Smooth Muscle. <i>Anesthesiology</i> , 2006, 105, 976-983.	2.5	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.	4.6	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.	2.5	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.	4.6	30
138	Effect of Mechanical Ventilation on the Diaphragm. <i>New England Journal of Medicine</i> , 2008, 358, 1392-1394.	27.0	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.	1.6	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.	1.4	30
141	Extramyocellular interleukin-6 influences skeletal muscle mitochondrial physiology through canonical JAK/STAT signaling pathways. <i>FASEB Journal</i> , 2020, 34, 14458-14472.	0.5	30
142	[17] Volume measurements in confocal microscopy. <i>Methods in Enzymology</i> , 1999, 307, 296-315.	1.0	29
143	Power fatigue of the rat diaphragm muscle. <i>Journal of Applied Physiology</i> , 2000, 89, 2215-2219.	2.5	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.	3.5	29

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145	Impact of unilateral denervation on transdiaphragmatic pressure. <i>Respiratory Physiology and Neurobiology</i> , 2015, 210, 14-21.	1.6	29
146	Diaphragm muscle sarcopenia in Fischer 344 and Brown Norway rats. <i>Experimental Physiology</i> , 2016, 101, 883-894.	2.0	29
147	Trophic factor expression in phrenic motor neurons. <i>Respiratory Physiology and Neurobiology</i> , 2008, 164, 252-262.	1.6	28
148	Regulation of sarcoplasmic reticulum Ca ²⁺ reuptake in porcine airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008, 294, L787-L796.	2.9	28
149	Novel method for transdiaphragmatic pressure measurements in mice. <i>Respiratory Physiology and Neurobiology</i> , 2013, 188, 56-59.	1.6	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.	1.4	28
151	Motoneuron glutamatergic receptor expression following recovery from cervical spinal hemisection. <i>Journal of Comparative Neurology</i> , 2017, 525, 1192-1205.	1.6	28
152	Temporal aspects of excitation-contraction coupling in airway smooth muscle. <i>Journal of Applied Physiology</i> , 2001, 91, 2266-2274.	2.5	27
153	EMG-Based Detection of Inspiration in the Rat Diaphragm Muscle. , 2006, 2006, 1204-7.		27
154	Effects of the Inflammatory Cytokines TNF- α and IL-13 on Stromal Interaction Molecule-1 Aggregation in Human Airway Smooth Muscle Intracellular Ca ²⁺ Regulation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013, 49, 601-608.	2.9	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.	1.8	27
156	Mechanisms Underlying Greater Sensitivity of Neonatal Cardiac Muscle to Volatile Anesthetics. <i>Anesthesiology</i> , 2002, 96, 893-906.	2.5	26
157	Influence of corticosteroids on myonuclear domain size in the rat diaphragm muscle. <i>Journal of Applied Physiology</i> , 2004, 97, 1715-1722.	2.5	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.	2.5	26
160	TNF- α enhances force generation in airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 312, L994-L1002.	2.9	26
161	Compensatory effects following unilateral diaphragm paralysis. <i>Respiratory Physiology and Neurobiology</i> , 2017, 246, 39-46.	1.6	26
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