

# Gary C Sieck

## List of Publications by Year in descending order

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Version: 2024-02-01

480  
papers

11,862  
citations

26567

56  
h-index

56606

83  
g-index

503  
all docs

503  
docs citations

503  
times ranked

7997  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial morphology and function varies across diaphragm muscle fiber types. <i>Respiratory Physiology and Neurobiology</i> , 2022, 295, 103780.	0.7	15
2	Physiological Impact of Hypothermia: The Good, the Bad, and the Ugly. <i>Physiology</i> , 2022, 37, 69-87.	1.6	13
3	CD38â€NADase is a new major contributor to Duchenne muscular dystrophic phenotype. <i>EMBO Molecular Medicine</i> , 2022, 14, e12860.	3.3	13
4	Cooling to Hypothermic Circulatory Arrest by Immersion vs. Cardiopulmonary Bypass (CPB): Worse Outcome After Rewarming in Immersion Cooled Pigs. <i>Frontiers in Physiology</i> , 2022, 13, 862729.	1.3	2
5	Automated evaluation of respiratory signals to provide insight into respiratory drive. <i>Respiratory Physiology and Neurobiology</i> , 2022, 300, 103872.	0.7	6
6	Cervical spinal hemisection alters phrenic motor neuron glutamatergic mRNA receptor expression. <i>Experimental Neurology</i> , 2022, 353, 114030.	2.0	7
7	Enhanced Blood Clotting After Rewarming From Experimental Hypothermia in an Intact Porcine Model. <i>Frontiers in Physiology</i> , 2022, 13, 901908.	1.3	1
8	Fiber Type Differences in SDH <sup>max</sup> and Mitochondrial Volume Density between Diaphragm and Tibialis Anterior Muscles. <i>FASEB Journal</i> , 2022, 36, .	0.2	0
9	Mitochondria Adapt to Diaphragm Muscle Inactivity Imposed by Cervical Spinal Cord Injury. <i>FASEB Journal</i> , 2022, 36, .	0.2	0
10	Automated Evaluation of Respiratory Signals to Provide Insight Into Respiratory Drive. <i>FASEB Journal</i> , 2022, 36, .	0.2	0
11	Aging Selectively Reduces Mitochondrial Volume Density and Respiratory Capacity in Type IIx/IIb Diaphragm Muscle Fibers. <i>FASEB Journal</i> , 2022, 36, .	0.2	0
12	Single Cell Assessment of Mitochondrial Function. <i>FASEB Journal</i> , 2022, 36, .	0.2	0
13	Impact of Aging on Fiber Crossâ€Sectional Areas and Contractile and Fatigue properties of Intrinsic and Extrinsic Tongue Muscles. <i>FASEB Journal</i> , 2022, 36, .	0.2	0
14	Ageâ€Related Autophagy Impairment in Cervical and Lumbar Motor Neurons. <i>FASEB Journal</i> , 2022, 36, .	0.2	0
15	Postnatal Phrenic Motor Neuron and Diaphragm Maturation in the Mouse. <i>FASEB Journal</i> , 2022, 36, .	0.2	0
16	Induction of Autophagy in Motor Neurons with Lanthionine Ketamine Analogs. <i>FASEB Journal</i> , 2022, 36, .	0.2	0
17	Autophagy Impairment and Sarcopenia in Typeâ€Identified Muscle Fibers of Aging Extensor Digitorum Longus Muscle. <i>FASEB Journal</i> , 2022, 36, .	0.2	0
18	Changes in Cardiac and Vascular Contractile Protein in a Rat Model of Heart Failure with Preserved Ejection Fraction. <i>FASEB Journal</i> , 2022, 36, .	0.2	0

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19	Force and Shortening Velocity are Reduced in 24-month Fischer 344 Rats. FASEB Journal, 2022, 36, .	0.2	0
20	TNF $\alpha$ Reduces the Maximum Respiratory Capacity of Mitochondria in Human Airway Smooth Muscle Cells. FASEB Journal, 2022, 36, .	0.2	0
21	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
22	Diaphragm muscle function in a mouse model of early-onset spasticity. Journal of Applied Physiology, 2022, 133, 60-68.	1.2	5
23	Primary cilia in satellite cells are the mechanical sensors for muscle hypertrophy. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	6
24	Mitochondrial adaptations to inactivity in diaphragm muscle fibers. Journal of Applied Physiology, 2022, 133, 191-204.	1.2	8
25	TNF $\alpha$ 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
26	Age-related impairment of autophagy in cervical motor neurons. Experimental Gerontology, 2021, 144, 111193.	1.2	15
27	Physiology in Perspective: The Rhythm of Life—Circadian Patterns in Physiology. Physiology, 2021, 36, 5-6.	1.6	0
28	Diaphragm neuromuscular transmission failure in a mouse model of an early-onset neuromotor disorder. Journal of Applied Physiology, 2021, 130, 708-720.	1.2	12
29	Impact of congenital diaphragmatic hernia on diaphragm muscle function in neonatal rats. Journal of Applied Physiology, 2021, 130, 801-812.	1.2	4
30	Physiology in Perspective: Harnessing Homeostasis. Physiology, 2021, 36, 71-72.	1.6	0
31	Improving gas exchange and exercise tolerance in mild COPD patients. Journal of Physiology, 2021, 599, 1943-1944.	1.3	0
32	Maintaining intravenous volume mitigates hypothermia-induced myocardial dysfunction and accumulation of intracellular Ca <sup>2+</sup> . Experimental Physiology, 2021, 106, 1196-1207.	0.9	3
33	Dynamic Cytosolic Ca <sup>2+</sup> and Force Responses to Muscarinic Stimulation in Airway Smooth Muscle. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2021, 321, L91-L101.	1.3	1
34	TrkB signaling contributes to transdiaphragmatic pressure generation in aged mice. Journal of Neurophysiology, 2021, 125, 1157-1163.	0.9	3
35	Quantifying mitochondrial volume density in phrenic motor neurons. Journal of Neuroscience Methods, 2021, 353, 109093.	1.3	12
36	Acute intrathecal BDNF enhances functional recovery after cervical spinal cord injury in rats. Journal of Neurophysiology, 2021, 125, 2158-2165.	0.9	17

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37	Aging and TrkB Signaling Effects on Autophagy Flux in Cervical Spinal Cord. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
38	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
39	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
40	Physiology in Perspective: Insulinâ€™100 Years of Physiological Discovery. <i>Physiology</i> , 2021, 36, 132-133.	1.6	0
41	Effects of TNFÎ± 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
42	Physiology in Perspective: Eat, Sleep, Surviveâ€™Natural Cycle of Life. <i>Physiology</i> , 2021, 36, 201-202.	1.6	1
43	Reflections of an Outgoing Editor-in-Chief. <i>Physiology</i> , 2021, 36, 196-196.	1.6	0
44	A Century of Insulin: Outstanding Physiological Breakthroughs. <i>Physiology</i> , 2021, 36, 197-200.	1.6	0
45	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
46	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
47	Rewarming With Closed Thoracic Lavage Following 3-h CPR at 27Â°C Failed to Reestablish a Perfusing Rhythm. <i>Frontiers in Physiology</i> , 2021, 12, 741241.	1.3	0
48	Cardiovascular Effects of Epinephrine During Experimental Hypothermia (32Â°C) With Spontaneous Circulation in an Intact Porcine Model. <i>Frontiers in Physiology</i> , 2021, 12, 718667.	1.3	2
49	Tongue muscle contractile, fatigue, and fiber type properties in rats. <i>Journal of Applied Physiology</i> , 2021, 131, 1043-1055.	1.2	12
50	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
51	Heterogeneous glutamatergic receptor mRNA expression across phrenic motor neurons in rats. <i>Journal of Neurochemistry</i> , 2020, 153, 586-598.	2.1	20
52	Diaphragm muscle sarcopenia into very old age in mice. <i>Physiological Reports</i> , 2020, 8, e14305.	0.7	14
53	Aging reduces succinate dehydrogenase activity in rat type IIx/IIb diaphragm muscle fibers. <i>Journal of Applied Physiology</i> , 2020, 128, 70-77.	1.2	24
54	Physiology in Perspective: Complexity and Emergence of Function. <i>Physiology</i> , 2020, 35, 2-3.	1.6	0

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55	Physiology in Perspective: A Challenging Time. <i>Physiology</i> , 2020, 35, 361-362.	1.6	0
56	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
57	Cytoskeletal remodeling slows cross-bridge cycling and ATP hydrolysis rates in airway smooth muscle. <i>Physiological Reports</i> , 2020, 8, e14561.	0.7	4
58	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
59	Physiology in Perspective: A Key Role of Physiology in Understanding COVID-19. <i>Physiology</i> , 2020, 35, 286-287.	1.6	3
60	Growth and survival characteristics of <i>spa</i> mice. <i>Animal Models and Experimental Medicine</i> , 2020, 3, 319-324.	1.3	4
61	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
62	Physiology in Perspective: In a World of Social Distancing. <i>Physiology</i> , 2020, 35, 158-159.	1.6	0
63	Physiology in Perspective: The New Normal—Life in a Pandemic. <i>Physiology</i> , 2020, 35, 220-221.	1.6	1
64	Physiology in Perspective: Physiological Systems Respond to Time. <i>Physiology</i> , 2020, 35, 84-85.	1.6	2
65	The Impact of Sugar-Sweetened Beverage Consumption on the Liver: A Proteomics-Based Analysis. <i>Antioxidants</i> , 2020, 9, 569.	2.2	4
66	Spinal cord injury and diaphragm neuromotor control. <i>Expert Review of Respiratory Medicine</i> , 2020, 14, 453-464.	1.0	16
67	TNF $\alpha$ selectively activates the IRE1 $\alpha$ /XBP1 endoplasmic reticulum stress pathway in human airway smooth muscle cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 318, L483-L493.	1.3	24
68	Inhibition of TrkB kinase activity impairs transdiaphragmatic pressure generation. <i>Journal of Applied Physiology</i> , 2020, 128, 338-344.	1.2	9
69	Study of the Effects of 3 h of Continuous Cardiopulmonary Resuscitation at 27°C on Global Oxygen Transport and Organ Blood Flow. <i>Frontiers in Physiology</i> , 2020, 11, 213.	1.3	5
70	Phrenic motor neuron loss in an animal model of early onset hypertonia. <i>Journal of Neurophysiology</i> , 2020, 123, 1682-1690.	0.9	20
71	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
72	Neuroprotective Role of Akt in Hypoxia Adaptation in Andeans. <i>Frontiers in Neuroscience</i> , 2020, 14, 607711.	1.4	4

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73	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
74	BDNF/TrkB Signaling Increases Autophagy Flux in Cervical Spinal Cord. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	2
75	Mechanisms Underlying TNF $\alpha$ -Induced Hyperreactivity in Airway Smooth Muscle. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
76	Inhibiting Cytoskeletal Remodeling Increases Tension Cost in Airway Smooth Muscle. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
77	TNF $\alpha$ Exposure Decreases Mitochondrial O <sub>2</sub> Consumption in Motor Neurons. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
78	Autophagy Impairment in Aging Motor Neurons. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
79	Age-Related Loss of Phrenic Motor Neurons: Reduced Myogenic Influence?. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
80	Size-Dependence of Mitochondrial Density & Morphology in Phrenic Motor Neurons. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
81	Glutamatergic Neurotransmission at Rat Phrenic Motor Neurons. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
82	Disruption of BDNF/TrkB Signaling Alters Glutamatergic mRNA Expression at Phrenic Motor Neurons. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
83	TNF $\alpha$ Increases Mitochondrial Biogenesis in Motor Neurons. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
84	Measuring Cardiac Troponin I Phosphorylation in Viable Primary Cardiomyocytes. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
85	Diaphragm Muscle Weakness Contributes to Ventilatory Deficits in an Animal Model of Congenital Diaphragmatic Hernia. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
86	TNF $\alpha$ Decreases Succinate Dehydrogenase Activity in Motor Neurons. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
87	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
88	Glutamatergic input varies with phrenic motor neuron size. <i>Journal of Neurophysiology</i> , 2019, 122, 1518-1529.	0.9	19
89	Mechanisms underlying TNF $\alpha$ -induced enhancement of force generation in airway smooth muscle. <i>Physiological Reports</i> , 2019, 7, e14220.	0.7	17
90	Physiology in Perspective: Physiology Without Borders. <i>Physiology</i> , 2019, 34, 300-301.	1.6	0

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91	Physiology in Perspective: Anatomy and Physiology—Structure and Function in Biology. <i>Physiology</i> , 2019, 34, 379-380.	1.6	0
92	Frequency-dependent lipid raft uptake at rat diaphragm muscle axon terminals. <i>Muscle and Nerve</i> , 2019, 59, 611-618.	1.0	15
93	Physiology in Perspective: The Dilemma of Muscle Weakness. <i>Physiology</i> , 2019, 34, 230-231.	1.6	0
94	A Critical Evaluation of Current Concepts in Cerebral Palsy. <i>Physiology</i> , 2019, 34, 216-229.	1.6	33
95	Diaphragm neuromuscular transmission failure in aged rats. <i>Journal of Neurophysiology</i> , 2019, 122, 93-104.	0.9	42
96	Physiology in Perspective: Responding to a Changing Environment. <i>Physiology</i> , 2019, 34, 84-85.	1.6	0
97	Evolution and Functional Differentiation of the Diaphragm Muscle of Mammals. , 2019, 9, 715-766.		48
98	Physiology in Perspective: Physiology is Everywhere. <i>Physiology</i> , 2019, 34, 167-168.	1.6	2
99	Impact of sarcopenia on diaphragm muscle fatigue. <i>Experimental Physiology</i> , 2019, 104, 1090-1099.	0.9	34
100	Diaphragm muscle adaptations in health and disease. <i>Drug Discovery Today: Disease Models</i> , 2019, 29-30, 43-52.	1.2	12
101	Physiology in Perspective: Of Mice and Men. <i>Physiology</i> , 2019, 34, 3-4.	1.6	1
102	Organ blood flow and $O_2$ transport during hypothermia (27°C) and rewarming in a pig model. <i>Experimental Physiology</i> , 2019, 104, 50-60.	0.9	13
103	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
104	Diaphragm muscle function following midcervical contusion injury in rats. <i>Journal of Applied Physiology</i> , 2019, 126, 221-230.	1.2	40
105	Endoplasmic Reticulum Stress and Mitochondrial Function in Airway Smooth Muscle. <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 374.	1.8	38
106	Effect of TNF± on Mitochondrial Function and Mitochondrial Biogenesis in Human Airway Smooth Muscle. <i>FASEB Journal</i> , 2019, 33, 734.16.	0.2	0
107	Acute Impact of Disrupting BDNF/TrkB Signaling on Diaphragm Muscle Force Generation across Motor Behaviors. <i>FASEB Journal</i> , 2019, 33, 844.13.	0.2	0
108	Tunicamycin-induced ER Stress Effect on Cardiac Contractility. <i>FASEB Journal</i> , 2019, 33, lb598.	0.2	0

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109	The Effects of TNF $\alpha$ on Mitochondria Morphology are Mediated by Endoplasmic Reticulum Stress in Human Airway Smooth Muscle Cells. <i>FASEB Journal</i> , 2019, 33, 734.15.	0.2	0
110	Ageing effects on oxidative capacity in type I identified diaphragm muscle fibers. <i>FASEB Journal</i> , 2019, 33, 539.3.	0.2	0
111	Ischemia/Reperfusion Induced Reduction of Ca <sup>2+</sup> Sensitivity in Isolated Cardiomyocytes. <i>FASEB Journal</i> , 2019, 33, 690.1.	0.2	0
112	The Role of TrkB Kinase Activity in Stabilization of Presynaptic Terminals Wanes in Old Age. <i>FASEB Journal</i> , 2019, 33, 844.11.	0.2	0
113	Age does not increase muscle fatigue resistance of the diaphragm. <i>FASEB Journal</i> , 2019, 33, 538.4.	0.2	0
114	The Effect of TNF $\alpha$ on Mitochondrial Morphology in Model (NSC34) Motor Neurons. <i>FASEB Journal</i> , 2019, 33, 542.17.	0.2	1
115	Distribution of Ipsilateral and Contralateral Glutamatergic Synaptic Inputs to Phrenic Motor Neurons. <i>FASEB Journal</i> , 2019, 33, 844.14.	0.2	0
116	The Diaphragm Muscle. , 2019, , 7-20.		0
117	Role of superoxide ion formation in hypothermia/rewarming induced contractile dysfunction in cardiomyocytes. <i>Cryobiology</i> , 2018, 81, 57-64.	0.3	10
118	Discontinued stimulation of cardiomyocytes provides protection against hypothermia-rewarming induced disruption of excitation-contraction coupling. <i>Experimental Physiology</i> , 2018, 103, 819-826.	0.9	6
119	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
120	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
121	Physiology in Perspective: Stem Cells and Regenerative Physiology. <i>Physiology</i> , 2018, 33, 14-15.	1.6	1
122	Phrenic motoneuron structural plasticity across models of diaphragm muscle paralysis. <i>Journal of Comparative Neurology</i> , 2018, 526, 2973-2983.	0.9	16
123	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
124	Initiating the Breath: The Drive to Breathe, Muscle Pump. <i>Respiratory Medicine</i> , 2018, , 151-170.	0.1	3
125	Physiology in Perspective: Understanding the Aging Process. <i>Physiology</i> , 2018, 33, 372-373.	1.6	1
126	Diaphragm muscle activity across respiratory motor behaviors in awake and lightly anesthetized rats. <i>Journal of Applied Physiology</i> , 2018, 124, 915-922.	1.2	9



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127	Impact of aging on diaphragm muscle function in male and female Fischer 344 rats. <i>Physiological Reports</i> , 2018, 6, e13786.	0.7	50
128	Breathing: Motor Control of Diaphragm Muscle. <i>Physiology</i> , 2018, 33, 113-126.	1.6	71
129	Physiology in Perspective: Homeostasis and Survival. <i>Physiology</i> , 2018, 33, 84-85.	1.6	2
130	Phrenic motor neuron loss in aged rats. <i>Journal of Neurophysiology</i> , 2018, 119, 1852-1862.	0.9	57
131	Physiology in Perspective: The Breath of Life. <i>Physiology</i> , 2018, 33, 300-301.	1.6	0
132	Impaired Autophagy in Motor Neurons: A Final Common Mechanism of Injury and Death. <i>Physiology</i> , 2018, 33, 211-224.	1.6	20
133	1,25-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
134	Pro-inflammatory Cytokine TNF $\alpha$ Induces Endoplasmic Reticulum Stress Through Reactive Oxygen Species Generation in Human Airway Smooth Muscle Cells. <i>FASEB Journal</i> , 2018, 32, .	0.2	0
135	Dynamic Assessment of Ca <sup>2+</sup> Sensitivity of Isometric Force in Intact Airway Smooth Muscle Using Phase Loop Plots. <i>FASEB Journal</i> , 2018, 32, 770.6.	0.2	0
136	Oxidative Stress-Induced Changes in Ca <sup>2+</sup> Sensitivity of Cardiomyocytes Do Not Recover. <i>FASEB Journal</i> , 2018, 32, 583.1.	0.2	0
137	Abstract 5232: 1,25-Dihydroxyvitamin D3 mitigates lung cancer cell mediated mitochondrial dysfunction in human skeletal muscle. , 2018, , .		0
138	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
139	Diaphragm electromyographic activity following unilateral midcervical contusion injury in rats. <i>Journal of Neurophysiology</i> , 2017, 117, 545-555.	0.9	37
140	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
141	Physiology in Perspective: The Importance of Integrative Physiology. <i>Physiology</i> , 2017, 32, 180-181.	1.6	5
142	TNF $\alpha$ decreases mitochondrial movement in human airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 313, L166-L176.	1.3	25
143	Physiology in Perspective: Aging and Underlying Pathophysiology. <i>Physiology</i> , 2017, 32, 7-8.	1.6	6
144	Mitochondrial Dysfunction in Airway Disease. <i>Chest</i> , 2017, 152, 618-626.	0.4	168

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145	Physiology in Perspective: Homeostasis and Evolution. <i>Physiology</i> , 2017, 32, 98-99.	1.6	3
146	Chronic TrkB agonist treatment in old age does not mitigate diaphragm neuromuscular dysfunction. <i>Physiological Reports</i> , 2017, 5, e13103.	0.7	21
147	Physiology in Perspective: Physiology Provides Insight into Health. <i>Physiology</i> , 2017, 32, 408-409.	1.6	0
148	Compensatory effects following unilateral diaphragm paralysis. <i>Respiratory Physiology and Neurobiology</i> , 2017, 246, 39-46.	0.7	26
149	Physiology in Perspective: The Value of Integrative Physiology. <i>Physiology</i> , 2017, 32, 344-345.	1.6	0
150	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
151	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
152	Motoneuron glutamatergic receptor expression following recovery from cervical spinal hemisection. <i>Journal of Comparative Neurology</i> , 2017, 525, 1192-1205.	0.9	28
153	Functional Development of Respiratory Muscles. , 2017, , 692-705.e3.		3
154	Physiology in Perspective: The Body's Tubes Sustain Life but Underlie Disease. <i>Physiology</i> , 2016, 31, 314-315.	1.6	0
155	The Impact of Midcervical Contusion Injury on Diaphragm Muscle Function. <i>Journal of Neurotrauma</i> , 2016, 33, 500-509.	1.7	34
156	Diaphragm muscle sarcopenia in Fischer 344 and Brown Norway rats. <i>Experimental Physiology</i> , 2016, 101, 883-894.	0.9	29
157	Physiology in Perspective: We Learn From Evolutionary/Comparative Physiology. <i>Physiology</i> , 2016, 31, 390-391.	1.6	0
158	Physiology in Perspective: Pursuing the Enchanted Loom of Motor Control. <i>Physiology</i> , 2016, 31, 81-82.	1.6	0
159	Physiology in Perspective: Sensing Our Environment Triggers Physiological and Evolutionary Adaptation. <i>Physiology</i> , 2016, 31, 168-169.	1.6	0
160	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
161	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
162	Functional Measurement of Respiratory Muscle Motor Behaviors Using Transdiaphragmatic Pressure. <i>Methods in Molecular Biology</i> , 2016, 1460, 309-319.	0.4	18

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163	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
164	Analysis of fluid movement in skeletal muscle using fluorescent microspheres. <i>Muscle and Nerve</i> , 2016, 54, 444-450.	1.0	14
165	Physiology in Perspective: Physiological Transitions During Our Lifespan. <i>Physiology</i> , 2016, 31, 248-249.	1.6	0
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