

Gary C Sieck

List of Publications by Year in Descending Order

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Version: 2024-04-09

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

409 papers	9,928 citations	53 h-index	77 g-index
503 ext. papers	10,869 ext. citations	4.3 avg, IF	6.41 L-index

#	Paper	IF	Citations
409	Mitochondrial morphology and function varies across diaphragm muscle fiber types. <i>Respiratory Physiology and Neurobiology</i> , 2022 , 295, 103780	2.8	3
408	CD38-NADase is a new major contributor to Duchenne muscular dystrophic phenotype.. <i>EMBO Molecular Medicine</i> , 2022 , e12860	12	0
407	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	4.6	0
406	Automated evaluation of respiratory signals to provide insight into respiratory drive.. <i>Respiratory Physiology and Neurobiology</i> , 2022 , 103872	2.8	1
405	Cervical spinal hemisection alters phrenic motor neuron glutamatergic mRNA receptor expression.. <i>Experimental Neurology</i> , 2022 , 114030	5.7	0
404	Enhanced Blood Clotting After Rewarming From Experimental Hypothermia in an Intact Porcine Model.. <i>Frontiers in Physiology</i> , 2022 , 13, 901908	4.6	0
403	Physiological Impact of Hypothermia: The Good, the Bad and the Ugly. <i>Physiology</i> , 2021 ,	9.8	1
402	Impact of congenital diaphragmatic hernia on diaphragm muscle function in neonatal rats. <i>Journal of Applied Physiology</i> , 2021 , 130, 801-812	3.7	2
401	Improving gas exchange and exercise tolerance in mild COPD patients. <i>Journal of Physiology</i> , 2021 , 599, 1943-1944	3.9	
400	Maintaining intravenous volume mitigates hypothermia-induced myocardial dysfunction and accumulation of intracellular Ca. <i>Experimental Physiology</i> , 2021 , 106, 1196-1207	2.4	2
399	Dynamic cytosolic Ca 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	5.8	1
398	TrkB signaling contributes to transdiaphragmatic pressure generation in aged mice. <i>Journal of Neurophysiology</i> , 2021 , 125, 1157-1163	3.2	1
397	Quantifying mitochondrial volume density in phrenic motor neurons. <i>Journal of Neuroscience Methods</i> , 2021 , 353, 109093	3	5
396	Acute intrathecal BDNF enhances functional recovery after cervical spinal cord injury in rats. <i>Journal of Neurophysiology</i> , 2021 , 125, 2158-2165	3.2	4
395	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	3.7	0
394	Effects of TNF α on Dynamic Cytosolic Ca and Force Responses to Muscarinic Stimulation in Airway Smooth Muscle. <i>Frontiers in Physiology</i> , 2021 , 12, 730333	4.6	
393	TNF α induces mitochondrial fragmentation and biogenesis in human airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021 , 320, L137-L151	5.8	8

392	Age-related impairment of autophagy in cervical motor neurons. <i>Experimental Gerontology</i> , 2021 , 144, 111193	4.5	4
391	Diaphragm neuromuscular transmission failure in a mouse model of an early-onset neuromotor disorder. <i>Journal of Applied Physiology</i> , 2021 , 130, 708-720	3.7	7
390	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	4.6	1
389	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	4.9	3
388	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	4.6	
387	Cardiovascular Effects of Epinephrine During Experimental Hypothermia (32°C) With Spontaneous Circulation in an Intact Porcine Model. <i>Frontiers in Physiology</i> , 2021 , 12, 718667	4.6	0
386	Tongue muscle contractile, fatigue, and fiber type properties in rats. <i>Journal of Applied Physiology</i> , 2021 , 131, 1043-1055	3.7	2
385	Growth and survival characteristics of mice. <i>Animal Models and Experimental Medicine</i> , 2020 , 3, 319-324	4.2	3
384	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	1.4	7
383	The Impact of Sugar-Sweetened Beverage Consumption on the Liver: A Proteomics-based Analysis. <i>Antioxidants</i> , 2020 , 9,	7.1	1
382	Spinal cord injury and diaphragm neuromotor control. <i>Expert Review of Respiratory Medicine</i> , 2020 , 14, 453-464	3.8	8
381	TNF α selectively activates the IRE1 α /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	5.8	15
380	Inhibition of TrkB kinase activity impairs transdiaphragmatic pressure generation. <i>Journal of Applied Physiology</i> , 2020 , 128, 338-344	3.7	5
379	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	4.6	3
378	Glutamatergic Neurotransmission at Rat Phrenic Motor Neurons. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
377	Disruption of BDNF/TrkB Signaling Alters Glutamatergic mRNA Expression at Phrenic Motor Neurons. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
376	TNF α Increases Mitochondrial Biogenesis in Motor Neurons. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
375	Measuring Cardiac Troponin I Phosphorylation in Viable Primary Cardiomyocytes. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	

374	Diaphragm Muscle Weakness Contributes to Ventilatory Deficits in an Animal Model of Congenital Diaphragmatic Hernia. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
373	TNF α Decreases Succinate Dehydrogenase Activity in Motor Neurons. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
372	Mechanisms Underlying TNF α Induced Hyperreactivity in Airway Smooth Muscle. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
371	Inhibiting Cytoskeletal Remodeling Increases Tension Cost in Airway Smooth Muscle. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
370	TNF α Exposure Decreases Mitochondrial O ₂ Consumption in Motor Neurons. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
369	Autophagy Impairment in Aging Motor Neurons. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
368	Age-Related Loss of Phrenic Motor Neurons: Reduced Myogenic Influence?. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
367	Size-Dependence of Mitochondrial Density & Morphology in Phrenic Motor Neurons. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
366	Inflammation-Induced Protein Unfolding in Airway Smooth Muscle Triggers a Homeostatic Response in Mitochondria. <i>International Journal of Molecular Sciences</i> , 2020 , 22,	6.3	7
365	Fixed Sample Entropy to Remove Cardiac Noise for Improved Assessments of Diaphragm Muscle Electrical Activity. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	1
364	BDNF/TrkB Signaling Increases Autophagy Flux in Cervical Spinal Cord. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	1
363	Diaphragm muscle sarcopenia into very old age in mice. <i>Physiological Reports</i> , 2020 , 8, e14305	2.6	11
362	Aging reduces succinate dehydrogenase activity in rat type IIx/IIb diaphragm muscle fibers. <i>Journal of Applied Physiology</i> , 2020 , 128, 70-77	3.7	11
361	Disproportionate loss of excitatory inputs to smaller phrenic motor neurons following cervical spinal hemisection. <i>Journal of Physiology</i> , 2020 , 598, 4693-4711	3.9	8
360	Cytoskeletal remodeling slows cross-bridge cycling and ATP hydrolysis rates in airway smooth muscle. <i>Physiological Reports</i> , 2020 , 8, e14561	2.6	2
359	Extramyocellular interleukin-6 influences skeletal muscle mitochondrial physiology through canonical JAK/STAT signaling pathways. <i>FASEB Journal</i> , 2020 , 34, 14458-14472	0.9	11
358	Heterogeneous glutamatergic receptor mRNA expression across phrenic motor neurons in rats. <i>Journal of Neurochemistry</i> , 2020 , 153, 586-598	6	11
357	Phrenic motor neuron loss in an animal model of early onset hypertonia. <i>Journal of Neurophysiology</i> , 2020 , 123, 1682-1690	3.2	10

356	Impaired neuromuscular transmission of the tibialis anterior in a rodent model of hypertonia. <i>Journal of Neurophysiology</i> , 2020 , 123, 1864-1869	3.2	10
355	Neuroprotective Role of Akt in Hypoxia Adaptation in Andeans. <i>Frontiers in Neuroscience</i> , 2020 , 14, 607741	3.1	0
354	Physiology in Perspective: Physiology Without Borders. <i>Physiology</i> , 2019 , 34, 300-301	9.8	
353	Frequency-dependent lipid raft uptake at rat diaphragm muscle axon terminals. <i>Muscle and Nerve</i> , 2019 , 59, 611-618	3.4	11
352	Physiology in Perspective: The Dilemma of Muscle Weakness. <i>Physiology</i> , 2019 , 34, 230-231	9.8	
351	A Critical Evaluation of Current Concepts in Cerebral Palsy. <i>Physiology</i> , 2019 , 34, 216-229	9.8	19
350	Diaphragm neuromuscular transmission failure in aged rats. <i>Journal of Neurophysiology</i> , 2019 , 122, 93-104	3.2	28
349	Physiology in Perspective: Responding to a Changing Environment. <i>Physiology</i> , 2019 , 34, 84-85	9.8	
348	Evolution and Functional Differentiation of the Diaphragm Muscle of Mammals. <i>Comprehensive Physiology</i> , 2019 , 9, 715-766	7.7	28
347	Physiology in Perspective: Physiology is Everywhere. <i>Physiology</i> , 2019 , 34, 167-168	9.8	1
346	Impact of sarcopenia on diaphragm muscle fatigue. <i>Experimental Physiology</i> , 2019 , 104, 1090-1099	2.4	23
345	Endoplasmic Reticulum Stress and Mitochondrial Function in Airway Smooth Muscle. <i>Frontiers in Cell and Developmental Biology</i> , 2019 , 7, 374	5.7	27
344	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	5.2	7
343	Glutamatergic input varies with phrenic motor neuron size. <i>Journal of Neurophysiology</i> , 2019 , 122, 1518-1529	3.2	14
342	Mechanisms underlying TNF α -induced enhancement of force generation in airway smooth muscle. <i>Physiological Reports</i> , 2019 , 7, e14220	2.6	8
341	Effect of TNF α on Mitochondrial Function and Mitochondrial Biogenesis in Human Airway Smooth Muscle. <i>FASEB Journal</i> , 2019 , 33, 734.16	0.9	
340	Acute Impact of Disrupting BDNF/TrkB Signaling on Diaphragm Muscle Force Generation across Motor Behaviors. <i>FASEB Journal</i> , 2019 , 33, 844.13	0.9	
339	Tunicamycin-induced ER Stress Effect on Cardiac Contractility. <i>FASEB Journal</i> , 2019 , 33, lb598	0.9	

338	The Effects of TNF- α on Mitochondria Morphology are Mediated by Endoplasmic Reticulum Stress in Human Airway Smooth Muscle Cells. <i>FASEB Journal</i> , 2019 , 33, 734.15	0.9	
337	Aging effects on oxidative capacity in type-identified diaphragm muscle fibers. <i>FASEB Journal</i> , 2019 , 33, 539.3	0.9	
336	Ischemia/Reperfusion-Induced Reduction of Ca ²⁺ Sensitivity in Isolated Cardiomyocytes. <i>FASEB Journal</i> , 2019 , 33, 690.1	0.9	
335	The Role of TrkB Kinase Activity in Stabilization of Presynaptic Terminals Wanes in Old Age. <i>FASEB Journal</i> , 2019 , 33, 844.11	0.9	
334	Age does not increase muscle fatigue resistance of the diaphragm. <i>FASEB Journal</i> , 2019 , 33, 538.4	0.9	
333	The Effect of TNF- α on Mitochondrial Morphology in Model (NSC-34) Motor Neurons. <i>FASEB Journal</i> , 2019 , 33, 542.17	0.9	1
332	Distribution of Ipsilateral and Contralateral Glutamatergic Synaptic Inputs to Phrenic Motor Neurons. <i>FASEB Journal</i> , 2019 , 33, 844.14	0.9	
331	The Diaphragm Muscle 2019 , 7-20		
330	Diaphragm Muscle Adaptations in Health and Disease. <i>Drug Discovery Today: Disease Models</i> , 2019 , 29-30, 43-52	1.3	8
329	Physiology in Perspective: Of Mice and Men. <i>Physiology</i> , 2019 , 34, 3-4	9.8	
328	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	2.4	10
327	Hyperoxia-induced Cellular Senescence in Fetal Airway Smooth Muscle Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019 , 61, 51-60	5.7	37
326	Diaphragm muscle function following midcervical contusion injury in rats. <i>Journal of Applied Physiology</i> , 2019 , 126, 221-230	3.7	29
325	Role of superoxide ion formation in hypothermia/rewarming induced contractile dysfunction in cardiomyocytes. <i>Cryobiology</i> , 2018 , 81, 57-64	2.7	8
324	Discontinued stimulation of cardiomyocytes provides protection against hypothermia-rewarming-induced disruption of excitation-contraction coupling. <i>Experimental Physiology</i> , 2018 , 103, 819-826	2.4	6
323	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	2.6	16
322	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	6	9
321	Diaphragm muscle activity across respiratory motor behaviors in awake and lightly anesthetized rats. <i>Journal of Applied Physiology</i> , 2018 , 124, 915-922	3.7	8

320	Impact of aging on diaphragm muscle function in male and female Fischer 344 rats. <i>Physiological Reports</i> , 2018 , 6, e13786	2.6	37
319	Breathing: Motor Control of Diaphragm Muscle. <i>Physiology</i> , 2018 , 33, 113-126	9.8	45
318	Physiology in Perspective: Homeostasis and Survival. <i>Physiology</i> , 2018 , 33, 84-85	9.8	2
317	Phrenic motor neuron loss in aged rats. <i>Journal of Neurophysiology</i> , 2018 , 119, 1852-1862	3.2	44
316	Impaired Autophagy in Motor Neurons: A Final Common Mechanism of Injury and Death. <i>Physiology</i> , 2018 , 33, 211-224	9.8	10
315	1,25-dihydroxyvitamin D mitigates cancer cell mediated mitochondrial dysfunction in human skeletal muscle cells. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 496, 746-752	3.4	11
314	Pro-inflammatory Cytokine TNF α Induces Endoplasmic Reticulum Stress Through Reactive Oxygen Species Generation in Human Airway Smooth Muscle Cells. <i>FASEB Journal</i> , 2018 , 32, 626.1-626.1	0.9	
313	Dynamic Assessment of Ca ²⁺ Sensitivity of Isometric Force in Intact Airway Smooth Muscle Using Phase Loop Plots. <i>FASEB Journal</i> , 2018 , 32, 770.6	0.9	
312	Oxidative Stress-Induced Changes in Ca ²⁺ Sensitivity of Cardiomyocytes Do Not Recover. <i>FASEB Journal</i> , 2018 , 32, 583.1	0.9	
311	Physiology in Perspective: Stem Cells and Regenerative Physiology. <i>Physiology</i> , 2018 , 33, 14-15	9.8	1
310	Phrenic motoneuron structural plasticity across models of diaphragm muscle paralysis. <i>Journal of Comparative Neurology</i> , 2018 , 526, 2973-2983	3.4	11
309	Differences in lumbar motor neuron pruning in an animal model of early onset spasticity. <i>Journal of Neurophysiology</i> , 2018 , 120, 601-609	3.2	18
308	Initiating the Breath: The Drive to Breathe, Muscle Pump. <i>Respiratory Medicine</i> , 2018 , 151-170	0.2	3
307	BDNF effects on functional recovery across motor behaviors after cervical spinal cord injury. <i>Journal of Neurophysiology</i> , 2017 , 117, 537-544	3.2	23
306	Diaphragm electromyographic activity following unilateral midcervical contusion injury in rats. <i>Journal of Neurophysiology</i> , 2017 , 117, 545-555	3.2	26
305	TNF α enhances force generation in airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017 , 312, L994-L1002	5.8	15
304	TNF α decreases mitochondrial movement in human airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017 , 313, L166-L176	5.8	17
303	Physiology in Perspective: Aging and Underlying Pathophysiology. <i>Physiology</i> , 2017 , 32, 7-8	9.8	4

302	Mitochondrial Dysfunction in Airway Disease. <i>Chest</i> , 2017 , 152, 618-626	5.3	104
301	Chronic TrkB agonist treatment in old age does not mitigate diaphragm neuromuscular dysfunction. <i>Physiological Reports</i> , 2017 , 5, e13103	2.6	17
300	Compensatory effects following unilateral diaphragm paralysis. <i>Respiratory Physiology and Neurobiology</i> , 2017 , 246, 39-46	2.8	22
299	Impact of glutamatergic and serotonergic neurotransmission on diaphragm muscle activity after cervical spinal hemisection. <i>Journal of Neurophysiology</i> , 2017 , 118, 1732-1738	3.2	10
298	Functional Effects of Cigarette Smoke-Induced Changes in Airway Smooth Muscle Mitochondrial Morphology. <i>Journal of Cellular Physiology</i> , 2017 , 232, 1053-1068	7	23
297	Motoneuron glutamatergic receptor expression following recovery from cervical spinal hemisection. <i>Journal of Comparative Neurology</i> , 2017 , 525, 1192-1205	3.4	23
296	Functional Development of Respiratory Muscles 2017 , 692-705.e3		2
295	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	3.3	47
294	Analysis of fluid movement in skeletal muscle using fluorescent microspheres. <i>Muscle and Nerve</i> , 2016 , 54, 444-50	3.4	9
293	Hypothermia/rewarming disrupts excitation-contraction coupling in cardiomyocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 310, H1533-40	5.2	18
292	TrkB gene therapy by adeno-associated virus enhances recovery after cervical spinal cord injury. <i>Experimental Neurology</i> , 2016 , 276, 31-40	5.7	29
291	Effects of antenatal lipopolysaccharide and postnatal hyperoxia on airway reactivity and remodeling in a neonatal mouse model. <i>Pediatric Research</i> , 2016 , 79, 391-400	3.2	15
290	Physiology in Perspective: Fulfilling the Promise of Tissue Engineering. <i>Physiology</i> , 2016 , 31, 5-6	9.8	
289	1 α ,25-Dihydroxyvitamin D3 Regulates Mitochondrial Oxygen Consumption and Dynamics in Human Skeletal Muscle Cells. <i>Journal of Biological Chemistry</i> , 2016 , 291, 1514-28	5.4	105
288	Functional recovery after cervical spinal cord injury: Role of neurotrophin and glutamatergic signaling in phrenic motoneurons. <i>Respiratory Physiology and Neurobiology</i> , 2016 , 226, 128-36	2.8	26
287	Functional impact of sarcopenia in respiratory muscles. <i>Respiratory Physiology and Neurobiology</i> , 2016 , 226, 137-46	2.8	49
286	The Impact of Midcervical Contusion Injury on Diaphragm Muscle Function. <i>Journal of Neurotrauma</i> , 2016 , 33, 500-9	5.4	29
285	Diaphragm muscle sarcopenia in Fischer 344 and Brown Norway rats. <i>Experimental Physiology</i> , 2016 , 101, 883-94	2.4	24

284	Physiology in Perspective: Pursuing the Enchanted Loom of Motor Control. <i>Physiology</i> , 2016 , 31, 81-2	9.8	
283	Aging-related changes in respiratory system mechanics and morphometry in mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016 , 311, L167-76	5.8	23
282	A novel approach for targeted delivery to motoneurons using cholera toxin-B modified protocells. <i>Journal of Neuroscience Methods</i> , 2016 , 273, 160-174	3	21
281	Functional Measurement of Respiratory Muscle Motor Behaviors Using Transdiaphragmatic Pressure. <i>Methods in Molecular Biology</i> , 2016 , 1460, 309-19	1.4	14
280	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	2.4	28
279	Semi-automated assessment of transdiaphragmatic pressure variability across motor behaviors. <i>Respiratory Physiology and Neurobiology</i> , 2015 , 215, 73-81	2.8	11
278	Transforming medicine through physiology. <i>Physiology</i> , 2015 , 30, 173-4	9.8	2
277	Analysis of muscle fiber clustering in the diaphragm muscle of sarcopenic mice. <i>Muscle and Nerve</i> , 2015 , 52, 76-82	3.4	39
276	Life at the extreme: physiological adaptation. <i>Physiology</i> , 2015 , 30, 84-5	9.8	1
275	Adapt or Perish. <i>Physiology</i> , 2015 , 30, 258-9	9.8	0
274	Physiology in Perspective: The Air We Breathe: Providing O2 for Survival. <i>Physiology</i> , 2015 , 30, 338-9	9.8	
273	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, 185-93	5.4	61
272	Ageing and neurotrophic signalling effects on diaphragm neuromuscular function. <i>Journal of Physiology</i> , 2015 , 593, 431-40	3.9	46
271	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, L46-52	5.8	51
270	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, 663-70	2.9	41
269	Physiology in Perspective: Why Do We Continue to Ignore Sex Differences?. <i>Physiology</i> , 2015 , 30, 406-7	9.8	
268	Role of TrkB kinase activity in aging diaphragm neuromuscular junctions. <i>Experimental Gerontology</i> , 2015 , 72, 184-91	4.5	28
267	Impact of unilateral denervation on transdiaphragmatic pressure. <i>Respiratory Physiology and Neurobiology</i> , 2015 , 210, 14-21	2.8	25

266	Integrative and adaptive responses. <i>Physiology</i> , 2015 , 30, 6-7	9.8	
265	Assessment of Diaphragm EMG Activity Recovery Following Upper Cervical Spinal Cord Injury. <i>FASEB Journal</i> , 2015 , 29, 659.9	0.9	
264	Diaphragm Muscle Sarcopenia is Present in Both Male and Female Mice. <i>FASEB Journal</i> , 2015 , 29, 660.7	0.9	
263	A Novel Approach to Target Motoneurons Using Mesoporous Silica Nanoparticles. <i>FASEB Journal</i> , 2015 , 29, 660.9	0.9	
262	Mesenchymal Stem Cell Survival after Intraspinal Transplantation. <i>FASEB Journal</i> , 2015 , 29, 1013.4	0.9	
261	A Novel Method to Quantify Diaphragm Muscle Fiber Type Clustering in the Context of Sarcopenia. <i>FASEB Journal</i> , 2015 , 29, 660.8	0.9	
260	Stress Responses Initiated in Cardiomyocytes during Hypothermia-Induced Rewarming Shock. <i>FASEB Journal</i> , 2015 , 29, 946.5	0.9	
259	Unilateral Denervation of the Diaphragm Muscle Increases Central Drive Only During Ventilatory Behaviors. <i>FASEB Journal</i> , 2015 , 29, 1013.5	0.9	
258	Inflammation, caveolae and CD38-mediated calcium regulation in human airway smooth muscle. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014 , 1843, 346-51	4.9	17
257	Cardiovascular effects of levosimendan during rewarming from hypothermia in rat. <i>Cryobiology</i> , 2014 , 69, 402-10	2.7	13
256	Living under extreme conditions. <i>Physiology</i> , 2014 , 29, 386-7	9.8	
255	Physiology in perspective: adaptive responses: changing to survive. <i>Physiology</i> , 2014 , 29, 157-8	9.8	1
254	TrkB kinase activity maintains synaptic function and structural integrity at adult neuromuscular junctions. <i>Journal of Applied Physiology</i> , 2014 , 117, 910-20	3.7	39
253	TrkB kinase activity is critical for recovery of respiratory function after cervical spinal cord hemisection. <i>Experimental Neurology</i> , 2014 , 261, 190-5	5.7	37
252	Recruitment of rat diaphragm motor units across motor behaviors with different levels of diaphragm activation. <i>Journal of Applied Physiology</i> , 2014 , 117, 1308-16	3.7	54
251	Positive end-expiratory airway pressure does not aggravate ventilator-induced diaphragmatic dysfunction in rabbits. <i>Critical Care</i> , 2014 , 18, 494	10.8	9
250	Living a healthier lifestyle. <i>Physiology</i> , 2014 , 29, 302-3	9.8	1
249	Response to letter by Dr. Marc Hershenson (exposure of airway smooth muscle cells to cigarette smoke extract). <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014 , 307, L346	5.8	3

248	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, L840-54	5.8	115
247	Physiology in perspective: the burden of obesity. <i>Physiology</i> , 2014 , 29, 86-7	9.8	4
246	Convergence of pattern generator outputs on a common mechanism of diaphragm motor unit recruitment. <i>Progress in Brain Research</i> , 2014 , 209, 309-29	2.9	25
245	Mitochondrial Excitation-Energy Coupling in Airway Smooth Muscle. <i>Respiratory Medicine</i> , 2014 , 93-116	0.2	3
244	The Role of Mitochondria in Calcium Regulation in Airway Smooth Muscle 2014 , 211-234		3
243	Physiology in perspective: cell migration and the regenerative process. <i>Physiology</i> , 2013 , 28, 368-9	9.8	1
242	Impact of diaphragm muscle fiber atrophy on neuromotor control. <i>Respiratory Physiology and Neurobiology</i> , 2013 , 189, 411-8	2.8	18
241	Motoneuron BDNF/TrkB signaling enhances functional recovery after cervical spinal cord injury. <i>Experimental Neurology</i> , 2013 , 247, 101-9	5.7	80
240	CrossTalk opposing view: The diaphragm muscle does not atrophy as a result of inactivity. <i>Journal of Physiology</i> , 2013 , 591, 5259-62	3.9	8
239	Diaphragm muscle sarcopenia in aging mice. <i>Experimental Gerontology</i> , 2013 , 48, 881-7	4.5	90
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