

# Gary C Sieck

## List of Publications by Citations

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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	Altered diaphragm contractile properties with controlled mechanical ventilation. <i>Journal of Applied Physiology</i> , <b>2002</b> , 92, 2585-95	3.7	211
408	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> , <b>1991</b> , 143, 469-75		189
407	Effects of voluntary activity and genetic selection on aerobic capacity in house mice ( <i>Mus domesticus</i> ). <i>Journal of Applied Physiology</i> , <b>1998</b> , 84, 69-76	3.7	170
406	Diaphragm dysfunction in chronic obstructive pulmonary disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2005</b> , 172, 200-5	10.2	168
405	Mechanism of endothelial dysfunction in apolipoprotein E-deficient mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2001</b> , 21, 1017-22	9.4	143
404	Pkd2 haploinsufficiency alters intracellular calcium regulation in vascular smooth muscle cells. <i>Human Molecular Genetics</i> , <b>2003</b> , 12, 1875-80	5.6	139
403	Maximum specific force depends on myosin heavy chain content in rat diaphragm muscle fibers. <i>Journal of Applied Physiology</i> , <b>2000</b> , 89, 695-703	3.7	139
402	Quantitative histochemical determination of succinic dehydrogenase activity in skeletal muscle fibres. <i>The Histochemical Journal</i> , <b>1988</b> , 20, 230-43		119
401	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> , <b>2006</b> , 35, 243-51	5.7	116
400	Cigarette smoke-induced mitochondrial fragmentation and dysfunction in human airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2014</b> , 306, L840-54	5.8	115
399	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> , <b>1998</b> , 274, C1653-60	5.4	114
398	Caveolae targeting and regulation of large conductance Ca(2+)-activated K <sup>+</sup> channels in vascular endothelial cells. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 11656-64	5.4	111
397	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> , <b>1998</b> , 18, 8436-43	6.6	111
396	1[25-Dihydroxyvitamin D3 Regulates Mitochondrial Oxygen Consumption and Dynamics in Human Skeletal Muscle Cells. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 1514-28	5.4	105
395	Skeletal muscle force and actomyosin ATPase activity reduced by nitric oxide donor. <i>Journal of Applied Physiology</i> , <b>1997</b> , 83, 1326-32	3.7	105
394	Human diaphragm remodeling associated with chronic obstructive pulmonary disease: clinical implications. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2003</b> , 168, 706-13	10.2	105
393	Mitochondrial Dysfunction in Airway Disease. <i>Chest</i> , <b>2017</b> , 152, 618-626	5.3	104

392	Diaphragm motor unit recruitment in rats. <i>Respiratory Physiology and Neurobiology</i> , <b>2010</b> , 173, 101-6	2.8	104
391	Retrograde labeling of phrenic motoneurons by intrapleural injection. <i>Journal of Neuroscience Methods</i> , <b>2009</b> , 182, 244-9	3	98
390	Store-operated Ca <sup>2+</sup> entry in porcine airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2004</b> , 286, L909-17	5.8	91
389	Diaphragm muscle sarcopenia in aging mice. <i>Experimental Gerontology</i> , <b>2013</b> , 48, 881-7	4.5	90
388	Age-related remodeling of neuromuscular junctions on type-identified diaphragm fibers. <i>Muscle and Nerve</i> , <b>1998</b> , 21, 887-95	3.4	84
387	Metabolic and phenotypic adaptations of diaphragm muscle fibers with inactivation. <i>Journal of Applied Physiology</i> , <b>1997</b> , 82, 1145-53	3.7	83
386	[Ca <sup>2+</sup> ] <sub>i</sub> reduction increases cellular proliferation and apoptosis in vascular smooth muscle cells: relevance to the ADPKD phenotype. <i>Circulation Research</i> , <b>2005</b> , 96, 873-80	15.7	81
385	Lymphocyte function-associated antigen 1 is a receptor for Pasteurella haemolytica leukotoxin in bovine leukocytes. <i>Infection and Immunity</i> , <b>2000</b> , 68, 72-9	3.7	81
384	Motoneuron BDNF/TrkB signaling enhances functional recovery after cervical spinal cord injury. <i>Experimental Neurology</i> , <b>2013</b> , 247, 101-9	5.7	80
383	Phrenic motoneuron morphology during rapid diaphragm muscle growth. <i>Journal of Applied Physiology</i> , <b>2000</b> , 89, 563-72	3.7	79
382	Inactivity-induced remodeling of neuromuscular junctions in rat diaphragmatic muscle. <i>Muscle and Nerve</i> , <b>1999</b> , 22, 307-19	3.4	77
381	Development of sinus arrhythmia during sleeping and waking states in normal infants. <i>Sleep</i> , <b>1978</b> , 1, 33-48	1.1	77
380	PHYSIOLOGICAL EFFECTS OF DIAPHRAGM MUSCLE DENERVATION AND DISUSE. <i>Clinics in Chest Medicine</i> , <b>1994</b> , 15, 641-659	5.3	76
379	Force-calcium relationship depends on myosin heavy chain and troponin isoforms in rat diaphragm muscle fibers. <i>Journal of Applied Physiology</i> , <b>1999</b> , 87, 1894-900	3.7	75
378	Neurotrophins improve neuromuscular transmission in the adult rat diaphragm. <i>Muscle and Nerve</i> , <b>2004</b> , 29, 381-6	3.4	74
377	The role of cyclic-ADP-ribose-signaling pathway in oxytocin-induced Ca <sup>2+</sup> transients in human myometrium cells. <i>Endocrinology</i> , <b>2004</b> , 145, 881-9	4.8	70
376	Wireless Instantaneous Neurotransmitter Concentration System-based amperometric detection of dopamine, adenosine, and glutamate for intraoperative neurochemical monitoring. <i>Journal of Neurosurgery</i> , <b>2009</b> , 111, 701-11	3.2	69
375	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> , <b>2009</b> , 297, L26-34	5.8	69

374	Diaphragm Muscle: Structural and Functional Organization. <i>Clinics in Chest Medicine</i> , <b>1988</b> , 9, 195-210	5.3	69
373	Phrenic motor unit recruitment during ventilatory and non-ventilatory behaviors. <i>Respiratory Physiology and Neurobiology</i> , <b>2011</b> , 179, 57-63	2.8	68
372	Fiber type composition of muscle units in the cat diaphragm. <i>Neuroscience Letters</i> , <b>1989</b> , 97, 29-34	3.3	68
371	Congestive heart failure: differential adaptation of the diaphragm and latissimus dorsi. <i>Journal of Applied Physiology</i> , <b>1995</b> , 79, 389-97	3.7	65
370	Synaptic vesicle pools at diaphragm neuromuscular junctions vary with motoneuron soma, not axon terminal, inactivity. <i>Neuroscience</i> , <b>2007</b> , 146, 178-89	3.9	62
369	Localized delivery of brain-derived neurotrophic factor-expressing mesenchymal stem cells enhances functional recovery following cervical spinal cord injury. <i>Journal of Neurotrauma</i> , <b>2015</b> , 32, 185-93	5.4	61
368	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> , <b>1998</b> , 119, 435-50	2.3	61
367	Invited review: significance of spatial and temporal heterogeneity of calcium transients in smooth muscle. <i>Journal of Applied Physiology</i> , <b>2001</b> , 91, 488-96	3.7	61
366	F-actin stabilization increases tension cost during contraction of permeabilized airway smooth muscle in dogs. <i>Journal of Physiology</i> , <b>1999</b> , 519 Pt 2, 527-38	3.9	59
365	Changes in cardiovascular beta-adrenoceptor responses during hypothermia. <i>Cryobiology</i> , <b>2008</b> , 57, 246-59	3.9	58
364	Denervation effects on myonuclear domain size of rat diaphragm fibers. <i>Journal of Applied Physiology</i> , <b>2006</b> , 100, 1617-22	3.7	58
363	Caveolin-1 regulation of store-operated Ca(2+) influx in human airway smooth muscle. <i>European Respiratory Journal</i> , <b>2012</b> , 40, 470-8	13.6	57
362	Invited review: Mechanisms underlying motor unit plasticity in the respiratory system. <i>Journal of Applied Physiology</i> , <b>2003</b> , 94, 1230-41	3.7	57
361	Structure-activity relationships in rodent diaphragm muscle fibers vs. neuromuscular junctions. <i>Respiratory Physiology and Neurobiology</i> , <b>2012</b> , 180, 88-96	2.8	56
360	Age-related changes in diaphragm muscle contractile properties and myosin heavy chain isoforms. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>1994</b> , 150, 174-8	10.2	56
359	Recruitment of rat diaphragm motor units across motor behaviors with different levels of diaphragm activation. <i>Journal of Applied Physiology</i> , <b>2014</b> , 117, 1308-16	3.7	54
358	Mechanical properties of respiratory muscles. <i>Comprehensive Physiology</i> , <b>2013</b> , 3, 1553-67	7.7	54
357	Targeted delivery of TrkB receptor to phrenic motoneurons enhances functional recovery of rhythmic phrenic activity after cervical spinal hemisection. <i>PLoS ONE</i> , <b>2013</b> , 8, e64755	3.7	53

356	Cross-bridge kinetics in respiratory muscles. <i>European Respiratory Journal</i> , <b>1997</b> , 10, 2147-58	13.6	53
355	Spatial and temporal aspects of ACh-induced [Ca <sup>2+</sup> ] <sub>i</sub> oscillations in porcine tracheal smooth muscle. <i>Cell Calcium</i> , <b>2000</b> , 27, 153-62	4	53
354	Effect of unilateral denervation on maximum specific force in rat diaphragm muscle fibers. <i>Journal of Applied Physiology</i> , <b>2001</b> , 90, 1196-204	3.7	52
353	Pneumotaxic area neuronal discharge during sleep-waking states in the cat. <i>Experimental Neurology</i> , <b>1980</b> , 67, 79-102	5.7	52
352	Functional impact of diaphragm muscle sarcopenia in both male and female mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2015</b> , 309, L46-52	5.8	51
351	Mechanisms underlying increased force generation by rat diaphragm muscle fibers during development. <i>Journal of Applied Physiology</i> , <b>2001</b> , 90, 380-8	3.7	51
350	Prolonged C2 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> , <b>2013</b> , 114, 380-6	3.7	50
349	Non-random distribution and sensory functions of primary cilia in vascular smooth muscle cells. <i>Kidney and Blood Pressure Research</i> , <b>2008</b> , 31, 171-84	3.1	50
348	Pasteurella haemolytica leukotoxin and endotoxin induced cytokine gene expression in bovine alveolar macrophages requires NF-kappaB activation and calcium elevation. <i>Microbial Pathogenesis</i> , <b>1999</b> , 26, 263-73	3.8	50
347	Functional impact of sarcopenia in respiratory muscles. <i>Respiratory Physiology and Neurobiology</i> , <b>2016</b> , 226, 137-46	2.8	49
346	Chronic assessment of diaphragm muscle EMG activity across motor behaviors. <i>Respiratory Physiology and Neurobiology</i> , <b>2011</b> , 177, 176-82	2.8	48
345	The ventilatory muscles. Fatigue, endurance and training. <i>Chest</i> , <b>1982</b> , 82, 761-6	5.3	48
344	Quantifying passive muscle stiffness in children with and without cerebral palsy using ultrasound shear wave elastography. <i>Developmental Medicine and Child Neurology</i> , <b>2016</b> , 58, 1288-1294	3.3	47
343	Inflammation alters regional mitochondrial Ca <sup>2+</sup> in human airway smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2012</b> , 303, C244-56	5.4	47
342	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> , <b>2008</b> , 294, L378-85	5.8	47
341	Ageing and neurotrophic signalling effects on diaphragm neuromuscular function. <i>Journal of Physiology</i> , <b>2015</b> , 593, 431-40	3.9	46
340	Neuromuscular adaptations to respiratory muscle inactivity. <i>Respiratory Physiology and Neurobiology</i> , <b>2009</b> , 169, 133-40	2.8	46
339	Sleep influences on diaphragmatic motor unit discharge. <i>Experimental Neurology</i> , <b>1984</b> , 85, 316-35	5.7	46

338	Breathing: Motor Control of Diaphragm Muscle. <i>Physiology</i> , <b>2018</b> , 33, 113-126	9.8	45
337	Systems biology of skeletal muscle: fiber type as an organizing principle. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , <b>2012</b> , 4, 457-73	6.6	45
336	Phrenic motor neuron loss in aged rats. <i>Journal of Neurophysiology</i> , <b>2018</b> , 119, 1852-1862	3.2	44
335	The effect of denervation on protein synthesis and degradation in adult rat diaphragm muscle. <i>Journal of Applied Physiology</i> , <b>2009</b> , 107, 438-44	3.7	44
334	ATP consumption rate per cross bridge depends on myosin heavy chain isoform. <i>Journal of Applied Physiology</i> , <b>2003</b> , 94, 2188-96	3.7	44
333	Reserve capacity for ATP consumption during isometric contraction in human skeletal muscle fibers. <i>Journal of Applied Physiology</i> , <b>2001</b> , 90, 657-64	3.7	44
332	Quantitative determination of calcium-activated myosin adenosine triphosphatase activity in rat skeletal muscle fibres. <i>The Histochemical Journal</i> , <b>1992</b> , 24, 431-44		44
331	Synaptic vesicle distribution and release at rat diaphragm neuromuscular junctions. <i>Journal of Neurophysiology</i> , <b>2007</b> , 98, 478-87	3.2	43
330	Denervation-induced changes in myosin heavy chain expression in the rat diaphragm muscle. <i>Journal of Applied Physiology</i> , <b>2003</b> , 95, 611-9	3.7	43
329	Isotonic contractile and fatigue properties of developing rat diaphragm muscle. <i>Journal of Applied Physiology</i> , <b>1998</b> , 84, 1260-8	3.7	43
328	Key aspects of phrenic motoneuron and diaphragm muscle development during the perinatal period. <i>Journal of Applied Physiology</i> , <b>2008</b> , 104, 1818-27	3.7	42
327	Neuromuscular transmission failure during postnatal development. <i>Neuroscience Letters</i> , <b>1991</b> , 125, 34-38	3.3	42
326	A novel and selective poly (ADP-ribose) polymerase inhibitor ameliorates chemotherapy-induced painful neuropathy. <i>PLoS ONE</i> , <b>2013</b> , 8, e54161	3.7	42
325	Feasibility and reliability of quantifying passive muscle stiffness in young children by using shear wave ultrasound elastography. <i>Journal of Ultrasound in Medicine</i> , <b>2015</b> , 34, 663-70	2.9	41
324	Corticosteroid effects on isotonic contractile properties of rat diaphragm muscle. <i>Journal of Applied Physiology</i> , <b>1997</b> , 83, 1062-7	3.7	41
323	Non-stationarity and power spectral shifts in EMG activity reflect motor unit recruitment in rat diaphragm muscle. <i>Respiratory Physiology and Neurobiology</i> , <b>2013</b> , 185, 400-9	2.8	40
322	Respiratory muscle plasticity. <i>Respiratory Physiology and Neurobiology</i> , <b>2005</b> , 147, 235-51	2.8	40
321	Subcellular localization of cyclic ADP-ribosyl cyclase and cyclic ADP-ribose hydrolase activities in porcine airway smooth muscle. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2000</b> , 1498, 64-71	4.9	40

320	Analysis of muscle fiber clustering in the diaphragm muscle of sarcopenic mice. <i>Muscle and Nerve</i> , <b>2015</b> , 52, 76-82	3.4	39
319	TrkB kinase activity maintains synaptic function and structural integrity at adult neuromuscular junctions. <i>Journal of Applied Physiology</i> , <b>2014</b> , 117, 910-20	3.7	39
318	Phrenic motoneuron expression of serotonergic and glutamatergic receptors following upper cervical spinal cord injury. <i>Experimental Neurology</i> , <b>2012</b> , 234, 191-9	5.7	39
317	Characterization of primary cilia in human airway smooth muscle cells. <i>Chest</i> , <b>2009</b> , 136, 561-570	5.3	39
316	Pkd2+/- vascular smooth muscles develop exaggerated vasocontraction in response to phenylephrine stimulation. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2007</b> , 18, 485-93	12.7	39
315	Effects of hypothyroidism on maximum specific force in rat diaphragm muscle fibers. <i>Journal of Applied Physiology</i> , <b>2002</b> , 92, 1506-14	3.7	39
314	Sodium-calcium exchange in intracellular calcium handling of human airway smooth muscle. <i>PLoS ONE</i> , <b>2011</b> , 6, e23662	3.7	39
313	Role of neurotrophins in recovery of phrenic motor function following spinal cord injury. <i>Respiratory Physiology and Neurobiology</i> , <b>2009</b> , 169, 218-25	2.8	38
312	Morphological adaptations of neuromuscular junctions depend on fiber type. <i>Applied Physiology, Nutrition, and Metabolism</i> , <b>1997</b> , 22, 197-230		38
311	Impact of aging on diaphragm muscle function in male and female Fischer 344 rats. <i>Physiological Reports</i> , <b>2018</b> , 6, e13786	2.6	37
310	TrkB kinase activity is critical for recovery of respiratory function after cervical spinal cord hemisection. <i>Experimental Neurology</i> , <b>2014</b> , 261, 190-5	5.7	37
309	Cyclic nucleotide regulation of store-operated Ca <sup>2+</sup> influx in airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2006</b> , 290, L278-83	5.8	37
308	Respiratory inhibition induced by transient hypertension during sleep in unrestrained cats. <i>Experimental Neurology</i> , <b>1985</b> , 90, 173-86	5.7	37
307	Hyperoxia-induced Cellular Senescence in Fetal Airway Smooth Muscle Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2019</b> , 61, 51-60	5.7	37
306	Mechanisms underlying hypothermia-induced cardiac contractile dysfunction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2010</b> , 298, H890-7	5.2	36
305	Neuregulin-1 at synapses on phrenic motoneurons. <i>Journal of Comparative Neurology</i> , <b>2010</b> , 518, 4213-25	5.4	36
304	Nitric oxide impairs Ca <sup>2+</sup> activation and slows cross-bridge cycling kinetics in skeletal muscle. <i>Journal of Applied Physiology</i> , <b>2001</b> , 91, 2233-9	3.7	35
303	Safety factor for neuromuscular transmission at type-identified diaphragm fibers. <i>Muscle and Nerve</i> , <b>2007</b> , 35, 800-3	3.4	34



302	Mechanisms underlying myosin heavy chain expression during development of the rat diaphragm muscle. <i>Journal of Applied Physiology</i> , <b>2006</b> , 101, 1546-55	3-7	33
301	Invited Review: plasticity and energetic demands of contraction in skeletal and cardiac muscle. <i>Journal of Applied Physiology</i> , <b>2001</b> , 90, 1158-64	3-7	33
300	Interactive effects of denervation and malnutrition on diaphragm structure and function. <i>Journal of Applied Physiology</i> , <b>1996</b> , 81, 2165-72	3-7	32
299	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> , <b>1997</b> , 273, H1962-7	5-2	31
298	Discharge of neurons in the parabrachial pons related to the cardiac cycle: changes during different sleep-waking states. <i>Brain Research</i> , <b>1980</b> , 199, 385-99	3-7	31
297	Synaptic vesicle cycling at type-identified diaphragm neuromuscular junctions. <i>Muscle and Nerve</i> , <b>2004</b> , 30, 774-83	3-4	30
296	TrkB gene therapy by adeno-associated virus enhances recovery after cervical spinal cord injury. <i>Experimental Neurology</i> , <b>2016</b> , 276, 31-40	5-7	29
295	Developmental effects on myonuclear domain size of rat diaphragm fibers. <i>Journal of Applied Physiology</i> , <b>2008</b> , 104, 787-94	3-7	29
294	Neuregulin-dependent protein synthesis in C2C12 myotubes and rat diaphragm muscle. <i>American Journal of Physiology - Cell Physiology</i> , <b>2006</b> , 291, C1056-61	5-4	29
293	Denervation alters myosin heavy chain expression and contractility of developing rat diaphragm muscle. <i>Journal of Applied Physiology</i> , <b>2000</b> , 89, 1106-13	3-7	29
292	Changes in diaphragmatic EMG spectra during hyperpneic loads. <i>Respiration Physiology</i> , <b>1985</b> , 61, 137-52		29
291	Gender and relaxation to C-type natriuretic peptide in porcine coronary arteries. <i>Journal of Cardiovascular Pharmacology</i> , <b>1998</b> , 32, 5-11	3-1	29
290	The Impact of Midcervical Contusion Injury on Diaphragm Muscle Function. <i>Journal of Neurotrauma</i> , <b>2016</b> , 33, 500-9	5-4	29
289	Diaphragm muscle function following midcervical contusion injury in rats. <i>Journal of Applied Physiology</i> , <b>2019</b> , 126, 221-230	3-7	29
288	Diaphragm neuromuscular transmission failure in aged rats. <i>Journal of Neurophysiology</i> , <b>2019</b> , 122, 93-104	3-2	28
287	Evolution and Functional Differentiation of the Diaphragm Muscle of Mammals. <i>Comprehensive Physiology</i> , <b>2019</b> , 9, 715-766	7-7	28
286	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> , <b>2015</b> , 93, 97-110	2-4	28
285	Role of TrkB kinase activity in aging diaphragm neuromuscular junctions. <i>Experimental Gerontology</i> , <b>2015</b> , 72, 184-91	4-5	28



284	Caveolin-1 knockout mice exhibit airway hyperreactivity. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2012</b> , 303, L669-81	5.8	28
283	Endoplasmic Reticulum Stress and Mitochondrial Function in Airway Smooth Muscle. <i>Frontiers in Cell and Developmental Biology</i> , <b>2019</b> , 7, 374	5.7	27
282	Intracellular signaling pathways regulating net protein balance following diaphragm muscle denervation. <i>American Journal of Physiology - Cell Physiology</i> , <b>2011</b> , 300, C318-27	5.4	27
281	Trophic factor expression in phrenic motor neurons. <i>Respiratory Physiology and Neurobiology</i> , <b>2008</b> , 164, 252-62	2.8	27
280	Effect of mechanical ventilation on the diaphragm. <i>New England Journal of Medicine</i> , <b>2008</b> , 358, 1392-4	59.2	27
279	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> , <b>2008</b> , 294, L787-96	5.8	27
278	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> , <b>2006</b> , 290, E530-9	6	27
277	Store-operated Ca <sup>2+</sup> influx in airway smooth muscle: Interactions between volatile anesthetic and cyclic nucleotide effects. <i>Anesthesiology</i> , <b>2006</b> , 105, 976-83	4.3	27
276	Diaphragm electromyographic activity following unilateral midcervical contusion injury in rats. <i>Journal of Neurophysiology</i> , <b>2017</b> , 117, 545-555	3.2	26
275	Functional recovery after cervical spinal cord injury: Role of neurotrophin and glutamatergic signaling in phrenic motoneurons. <i>Respiratory Physiology and Neurobiology</i> , <b>2016</b> , 226, 128-36	2.8	26
274	Novel method for transdiaphragmatic pressure measurements in mice. <i>Respiratory Physiology and Neurobiology</i> , <b>2013</b> , 188, 56-9	2.8	26
273	Effects of volatile anesthetics on store-operated Ca(2+) influx in airway smooth muscle. <i>Anesthesiology</i> , <b>2004</b> , 101, 373-80	4.3	26
272	Impact of unilateral denervation on transdiaphragmatic pressure. <i>Respiratory Physiology and Neurobiology</i> , <b>2015</b> , 210, 14-21	2.8	25
271	Convergence of pattern generator outputs on a common mechanism of diaphragm motor unit recruitment. <i>Progress in Brain Research</i> , <b>2014</b> , 209, 309-29	2.9	25
270	Power fatigue of the rat diaphragm muscle. <i>Journal of Applied Physiology</i> , <b>2000</b> , 89, 2215-9	3.7	25
269	Volume measurements in confocal microscopy. <i>Methods in Enzymology</i> , <b>1999</b> , 307, 296-315	1.7	25
268	Effects of the inflammatory cytokines TNF- $\alpha$ 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> , <b>2013</b> , 49, 601-8	5.7	24
267	EMG-based detection of inspiration in the rat diaphragm muscle. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , 2006, 1204-7		24

266	Elevated blood pressure and cardiac hypertrophy after ablation of the gly96/IEX-1 gene. <i>Journal of Applied Physiology</i> , <b>2006</b> , 100, 707-16	3.7	24
265	Influence of corticosteroids on myonuclear domain size in the rat diaphragm muscle. <i>Journal of Applied Physiology</i> , <b>2004</b> , 97, 1715-22	3.7	24
264	Temporal aspects of excitation-contraction coupling in airway smooth muscle. <i>Journal of Applied Physiology</i> , <b>2001</b> , 91, 2266-74	3.7	24
263	Diaphragm muscle sarcopenia in Fischer 344 and Brown Norway rats. <i>Experimental Physiology</i> , <b>2016</b> , 101, 883-94	2.4	24
262	BDNF effects on functional recovery across motor behaviors after cervical spinal cord injury. <i>Journal of Neurophysiology</i> , <b>2017</b> , 117, 537-544	3.2	23
261	Impact of sarcopenia on diaphragm muscle fatigue. <i>Experimental Physiology</i> , <b>2019</b> , 104, 1090-1099	2.4	23
260	Functional Effects of Cigarette Smoke-Induced Changes in Airway Smooth Muscle Mitochondrial Morphology. <i>Journal of Cellular Physiology</i> , <b>2017</b> , 232, 1053-1068	7	23
259	Motoneuron glutamatergic receptor expression following recovery from cervical spinal hemisection. <i>Journal of Comparative Neurology</i> , <b>2017</b> , 525, 1192-1205	3.4	23
258	Spatial and temporal aspects of calcium sparks in porcine tracheal smooth muscle cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>1999</b> , 277, L1018-25	5.8	23
257	Diaphragm Motor Units and Their Response to Altered Use. <i>Seminars in Respiratory and Critical Care Medicine</i> , <b>1991</b> , 12, 258-269	3.9	23
256	Aging-related changes in respiratory system mechanics and morphometry in mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2016</b> , 311, L167-76	5.8	23
255	Compensatory effects following unilateral diaphragm paralysis. <i>Respiratory Physiology and Neurobiology</i> , <b>2017</b> , 246, 39-46	2.8	22
254	Myosin heavy chain transitions during development. Functional implications for the respiratory musculature. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , <b>1998</b> , 119, 459-70	2.3	22
253	Changes in actomyosin ATP consumption rate in rat diaphragm muscle fibers during postnatal development. <i>Journal of Applied Physiology</i> , <b>2003</b> , 94, 1896-902	3.7	22
252	Role of CD38 in myometrial Ca <sup>2+</sup> transients: modulation by progesterone. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2004</b> , 287, E1142-8	6	21
251	Alterations in diaphragm contractility after nandrolone administration: an analysis of potential mechanisms. <i>Journal of Applied Physiology</i> , <b>1999</b> , 86, 985-92	3.7	21
250	Corticosteroid effects on diaphragm neuromuscular junctions. <i>Journal of Applied Physiology</i> , <b>1999</b> , 86, 114-22	3.7	21
249	Discharge correlations between neurons in the nucleus parabrachialis medialis during sleep-waking states. <i>Brain Research</i> , <b>1980</b> , 199, 343-58	3.7	21

248	A novel approach for targeted delivery to motoneurons using cholera toxin-B modified protocells. <i>Journal of Neuroscience Methods</i> , <b>2016</b> , 273, 160-174	3	21
247	Correlation of respiratory activity of contralateral diaphragm muscles for evaluation of recovery following hemiparesis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 404-7	0.9	20
246	Exogenous testosterone treatment decreases diaphragm neuromuscular transmission failure in male rats. <i>Journal of Applied Physiology</i> , <b>2001</b> , 90, 850-6	3.7	20
245	Metabolic variability within individual fibres of the cat tibialis posterior and diaphragm muscles. <i>The Histochemical Journal</i> , <b>1991</b> , 23, 366-74		20
244	A Critical Evaluation of Current Concepts in Cerebral Palsy. <i>Physiology</i> , <b>2019</b> , 34, 216-229	9.8	19
243	cADP ribose and [Ca(2+)](i) regulation in rat cardiac myocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2000</b> , 279, H1482-9	5.2	19
242	Absence of myofibrillar creatine kinase and diaphragm isometric function during repetitive activation. <i>Journal of Applied Physiology</i> , <b>1998</b> , 84, 1166-73	3.7	19
241	Hypothyroidism alters diaphragm muscle development. <i>Journal of Applied Physiology</i> , <b>1996</b> , 81, 1965-72	3.7	19
240	Prepubertal cyclicity in feeding behavior and body weight regulation in the female rat. <i>Physiology and Behavior</i> , <b>1977</b> , 18, 299-305	3.5	19
239	Respiratory muscle plasticity. <i>Comprehensive Physiology</i> , <b>2012</b> , 2, 1441-62	7.7	18
238	Hypothermia/rewarming disrupts excitation-contraction coupling in cardiomyocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2016</b> , 310, H1533-40	5.2	18
237	Impact of diaphragm muscle fiber atrophy on neuromotor control. <i>Respiratory Physiology and Neurobiology</i> , <b>2013</b> , 189, 411-8	2.8	18
236	Endovascular treatment of experimental aneurysms by use of fibroblast-coated platinum coils: an angiographic and histopathologic study. <i>Stroke</i> , <b>2007</b> , 38, 170-6	6.7	18
235	Mechanisms underlying greater sensitivity of neonatal cardiac muscle to volatile anesthetics. <i>Anesthesiology</i> , <b>2002</b> , 96, 893-906	4.3	18
234	Differences in lumbar motor neuron pruning in an animal model of early onset spasticity. <i>Journal of Neurophysiology</i> , <b>2018</b> , 120, 601-609	3.2	18
233	TNF $\alpha$ decreases mitochondrial movement in human airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2017</b> , 313, L166-L176	5.8	17
232	Chronic TrkB agonist treatment in old age does not mitigate diaphragm neuromuscular dysfunction. <i>Physiological Reports</i> , <b>2017</b> , 5, e13103	2.6	17
231	Inflammation, caveolae and CD38-mediated calcium regulation in human airway smooth muscle. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2014</b> , 1843, 346-51	4.9	17

230	K(Ca) <sub>3.1</sub> channels facilitate K <sup>+</sup> secretion or Na <sup>+</sup> absorption depending on apical or basolateral P2Y receptor stimulation. <i>Journal of Physiology</i> , <b>2011</b> , 589, 3483-94	3.9	17
229	Impairment of diaphragm muscle force and neuromuscular transmission after normothermic cardiopulmonary bypass: effect of low-dose inhaled CO. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2010</b> , 298, R784-9	3.2	17
228	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> , <b>2018</b> , 97, 500-506	2.6	16
227	Asthma and sarcoplasmic reticulum Ca <sup>2+</sup> reuptake in airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2009</b> , 297, L794	5.8	16
226	Myosin filament polymerization and depolymerization in a model of partial length adaptation in airway smooth muscle. <i>Journal of Applied Physiology</i> , <b>2011</b> , 111, 735-42	3.7	16
225	Regional differences in serotonergic input to canine parasternal intercostal motoneurons. <i>Journal of Applied Physiology</i> , <b>2000</b> , 88, 1581-9	3.7	16
224	TNF $\alpha$ enhances force generation in airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2017</b> , 312, L994-L1002	5.8	15
223	TNF $\beta$ 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> , <b>2020</b> , 318, L483-L493	5.8	15
222	Effects of antenatal lipopolysaccharide and postnatal hyperoxia on airway reactivity and remodeling in a neonatal mouse model. <i>Pediatric Research</i> , <b>2016</b> , 79, 391-400	3.2	15
221	The physiologic responses to epinephrine during cooling and after rewarming in vivo. <i>Critical Care</i> , <b>2011</b> , 15, R225	10.8	15
220	HIGHLIGHTED TOPIC: Pulmonary Circulation and Hypoxia. <i>Journal of Applied Physiology</i> , <b>2005</b> , 98, 1-2	3.7	15
219	Postnatal changes in the distribution of succinate dehydrogenase activities among diaphragm muscle fibers. <i>Pediatric Research</i> , <b>1991</b> , 29, 586-93	3.2	15
218	Regulation of neuromuscular transmission by neurotrophins. <i>Acta Physiologica Sinica</i> , <b>2003</b> , 55, 617-24	1.3	15
217	Glutamatergic input varies with phrenic motor neuron size. <i>Journal of Neurophysiology</i> , <b>2019</b> , 122, 1518-1529	3.5	14
216	Diaphragm disuse reduces Ca <sup>2+</sup> uptake capacity of sarcoplasmic reticulum. <i>Journal of Applied Physiology</i> , <b>1997</b> , 82, 164-71	3.7	14
215	ATP hydrolysis during contraction of permeabilized airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>1999</b> , 277, L334-42	5.8	14
214	Comparison of cross-bridge cycling kinetics in neonatal vs. adult rat ventricular muscle. <i>Journal of Muscle Research and Cell Motility</i> , <b>1999</b> , 20, 717-23	3.5	14
213	Estrogen modification of feeding behavior in the female rat: influence of metabolic state. <i>Physiology and Behavior</i> , <b>1978</b> , 21, 893-7	3.5	14

212	Functional Measurement of Respiratory Muscle Motor Behaviors Using Transdiaphragmatic Pressure. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1460, 309-19	1.4	14
211	Cardiovascular effects of levosimendan during rewarming from hypothermia in rat. <i>Cryobiology</i> , <b>2014</b> , 69, 402-10	2.7	13
210	Neuromotor control in chronic obstructive pulmonary disease. <i>Journal of Applied Physiology</i> , <b>2013</b> , 114, 1246-52	3.7	13
209	Reduced ribosomal protein s6 phosphorylation after progressive resistance exercise in growing adolescent rats. <i>Journal of Strength and Conditioning Research</i> , <b>2012</b> , 26, 1657-66	3.2	13
208	Effect of denervation on ATP consumption rate of diaphragm muscle fibers. <i>Journal of Applied Physiology</i> , <b>2007</b> , 103, 858-66	3.7	13
207	Agonist-induced cyclic ADP ribose production in airway smooth muscle. <i>Archives of Biochemistry and Biophysics</i> , <b>2006</b> , 452, 102-7	4.1	13
206	Volatile anaesthetic effects on Na <sup>+</sup> -Ca <sup>2+</sup> exchange in rat cardiac myocytes. <i>Journal of Physiology</i> , <b>2001</b> , 532, 91-104	3.9	12
205	Frequency-dependent lipid raft uptake at rat diaphragm muscle axon terminals. <i>Muscle and Nerve</i> , <b>2019</b> , 59, 611-618	3.4	11
204	Semi-automated assessment of transdiaphragmatic pressure variability across motor behaviors. <i>Respiratory Physiology and Neurobiology</i> , <b>2015</b> , 215, 73-81	2.8	11
203	1[25-dihydroxyvitamin D mitigates cancer cell mediated mitochondrial dysfunction in human skeletal muscle cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2018</b> , 496, 746-752	3.4	11
202	Effects of milrinone on left ventricular cardiac function during cooling in an intact animal model. <i>Cryobiology</i> , <b>2012</b> , 65, 27-32	2.7	11
201	Absence of high-frequency oscillations in the discharge of pneumotaxic neurons in intact, unanesthetized cats. <i>Brain Research</i> , <b>1981</b> , 221, 397-401	3.7	11
200	Diaphragm muscle sarcopenia into very old age in mice. <i>Physiological Reports</i> , <b>2020</b> , 8, e14305	2.6	11
199	Aging reduces succinate dehydrogenase activity in rat type IIx/IIb diaphragm muscle fibers. <i>Journal of Applied Physiology</i> , <b>2020</b> , 128, 70-77	3.7	11
198	Extramyocellular interleukin-6 influences skeletal muscle mitochondrial physiology through canonical JAK/STAT signaling pathways. <i>FASEB Journal</i> , <b>2020</b> , 34, 14458-14472	0.9	11
197	Heterogeneous glutamatergic receptor mRNA expression across phrenic motor neurons in rats. <i>Journal of Neurochemistry</i> , <b>2020</b> , 153, 586-598	6	11
196	Phrenic motoneuron structural plasticity across models of diaphragm muscle paralysis. <i>Journal of Comparative Neurology</i> , <b>2018</b> , 526, 2973-2983	3.4	11
195	Impaired Autophagy in Motor Neurons: A Final Common Mechanism of Injury and Death. <i>Physiology</i> , <b>2018</b> , 33, 211-224	9.8	10

194	Impact of glutamatergic and serotonergic neurotransmission on diaphragm muscle activity after cervical spinal hemisection. <i>Journal of Neurophysiology</i> , <b>2017</b> , 118, 1732-1738	3.2	10
193	Isotonic force modulates force redevelopment rate of intact frog muscle fibres: evidence for cross-bridge induced thin filament activation. <i>Journal of Physiology</i> , <b>2002</b> , 543, 555-66	3.9	10
192	Organ blood flow and O transport during hypothermia (27°C) and rewarming in a pig model. <i>Experimental Physiology</i> , <b>2019</b> , 104, 50-60	2.4	10
191	Phrenic motor neuron loss in an animal model of early onset hypertonia. <i>Journal of Neurophysiology</i> , <b>2020</b> , 123, 1682-1690	3.2	10
190	Impaired neuromuscular transmission of the tibialis anterior in a rodent model of hypertonia. <i>Journal of Neurophysiology</i> , <b>2020</b> , 123, 1864-1869	3.2	10
189	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> , <b>2018</b> , 14, 661-672	6	9
188	Analysis of fluid movement in skeletal muscle using fluorescent microspheres. <i>Muscle and Nerve</i> , <b>2016</b> , 54, 444-50	3.4	9
187	Positive end-expiratory airway pressure does not aggravate ventilator-induced diaphragmatic dysfunction in rabbits. <i>Critical Care</i> , <b>2014</b> , 18, 494	10.8	9
186	Effects of early handling upon puberty: Correlations with adrenal stress responsiveness. <i>Physiology and Behavior</i> , <b>1975</b> , 15, 487-489	3.5	9
185	Recruitment and Frequency Coding of Diaphragm Motor Units During Ventilatory and Non-Ventilatory Behaviors <b>1989</b> , 441-450		9
184	Spinal cord injury and diaphragm neuromotor control. <i>Expert Review of Respiratory Medicine</i> , <b>2020</b> , 14, 453-464	3.8	8
183	Role of superoxide ion formation in hypothermia/rewarming induced contractile dysfunction in cardiomyocytes. <i>Cryobiology</i> , <b>2018</b> , 81, 57-64	2.7	8
182	Diaphragm muscle activity across respiratory motor behaviors in awake and lightly anesthetized rats. <i>Journal of Applied Physiology</i> , <b>2018</b> , 124, 915-922	3.7	8
181	Mechanisms underlying TNF-induced enhancement of force generation in airway smooth muscle. <i>Physiological Reports</i> , <b>2019</b> , 7, e14220	2.6	8
180	CrossTalk opposing view: The diaphragm muscle does not atrophy as a result of inactivity. <i>Journal of Physiology</i> , <b>2013</b> , 591, 5259-62	3.9	8
179	Effect of halothane on intracellular calcium oscillations in porcine tracheal smooth muscle cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>1999</b> , 276, L81-9	5.8	8
178	Rat diaphragm oxidative capacity, antioxidant enzymes, and fatigue: newborn versus adult. <i>Pediatric Research</i> , <b>1997</b> , 42, 60-5	3.2	8
177	Disproportionate loss of excitatory inputs to smaller phrenic motor neurons following cervical spinal hemisection. <i>Journal of Physiology</i> , <b>2020</b> , 598, 4693-4711	3.9	8



176	Diaphragm Muscle Adaptations in Health and Disease. <i>Drug Discovery Today: Disease Models</i> , <b>2019</b> , 29-30, 43-52	1.3	8
175	TNF $\alpha$ induces mitochondrial fragmentation and biogenesis in human airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2021</b> , 320, L137-L151	5.8	8
174	Why individuals with cerebral palsy are at higher risk for respiratory complications from COVID-19. <i>Journal of Pediatric Rehabilitation Medicine</i> , <b>2020</b> , 13, 317-327	1.4	7
173	Cardiac troponin-I phosphorylation underlies myocardial contractile dysfunction induced by hypothermia rewarming. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2019</b> , 317, H726-H731	5.2	7
172	Respiratory Muscles: Structure, Function, and Regulation. <i>Colloquium Series on Integrated Systems Physiology From Molecule To Function</i> , <b>2012</b> , 4, 1-96		7
171	Effect of collagen digestion on the passive elastic properties of diaphragm muscle in rat. <i>Medical Engineering and Physics</i> , <b>2010</b> , 32, 90-4	2.4	7
170	Endothelium-dependent effects of estrogen on vasomotor tone. Consequences of nongenomic actions. <i>Vascular Pharmacology</i> , <b>2002</b> , 38, 109-13	5.9	7
169	Respiratory muscle coordination in acute spinal dogs. <i>Respiration Physiology</i> , <b>1996</b> , 104, 29-37		7
168	Chronic aminophylline administration. Effect on diaphragm contractility and fatigue resistance in vitro. <i>The American Review of Respiratory Disease</i> , <b>1991</b> , 144, 121-5		7
167	Cardiac arrhythmias induced by transient hypertension during sleep-waking states. <i>Journal of the Autonomic Nervous System</i> , <b>1983</b> , 8, 179-91		7
166	Inflammation-Induced Protein Unfolding in Airway Smooth Muscle Triggers a Homeostatic Response in Mitochondria. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 22,	6.3	7
165	Diaphragm neuromuscular transmission failure in a mouse model of an early-onset neuromotor disorder. <i>Journal of Applied Physiology</i> , <b>2021</b> , 130, 708-720	3.7	7
164	Discontinued stimulation of cardiomyocytes provides protection against hypothermia-rewarming-induced disruption of excitation-contraction coupling. <i>Experimental Physiology</i> , <b>2018</b> , 103, 819-826	2.4	6
163	Distribution of major basic protein on human airway following in vitro eosinophil incubation. <i>Mediators of Inflammation</i> , <b>2010</b> , 2010, 824362	4.3	6
162	Mechano-chemical effects of Ca(2+) in cross-linked troponin-C films. <i>FEBS Letters</i> , <b>2002</b> , 524, 107-10	3.8	6
161	Inhibition of TrkB kinase activity impairs transdiaphragmatic pressure generation. <i>Journal of Applied Physiology</i> , <b>2020</b> , 128, 338-344	3.7	5
160	Mechanisms of intrinsic force in small human airways. <i>Respiratory Physiology and Neurobiology</i> , <b>2012</b> , 181, 99-108	2.8	5
159	Respiratory-related heart rate variation during sleep and waking states in cats. <i>Experimental Neurology</i> , <b>1981</b> , 72, 195-203	5.7	5



158	Regulation of feeding behavior in the prepubertal female rat. <i>Physiology and Behavior</i> , <b>1978</b> , 21, 727-33	3.5	5
157	Quantifying mitochondrial volume density in phrenic motor neurons. <i>Journal of Neuroscience Methods</i> , <b>2021</b> , 353, 109093	3	5
156	Physiology in Perspective: Aging and Underlying Pathophysiology. <i>Physiology</i> , <b>2017</b> , 32, 7-8	9.8	4
155	Physiology in perspective: the burden of obesity. <i>Physiology</i> , <b>2014</b> , 29, 86-7	9.8	4
154	Age-Related Remodeling of Neuromuscular Junctions <b>2011</b> , 37-54		4
153	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> , <b>2002</b> , 976, 530-4	6.5	4
152	Functional genomics of sleep and circadian rhythms. <i>Journal of Applied Physiology</i> , <b>2002</b> , 92, 1-2	3.7	4
151	Nocturnal feeding pattern in the prepubertal rat: influence of the ventromedial hypothalamus (VMH). <i>Physiology and Behavior</i> , <b>1979</b> , 23, 777-83	3.5	4
150	Puberty-related alterations in the organization of sleep-wakefulness states: differences between spontaneous and induced pubertal conditions. <i>Experimental Neurology</i> , <b>1978</b> , 61, 407-20	5.7	4
149	Acute intrathecal BDNF enhances functional recovery after cervical spinal cord injury in rats. <i>Journal of Neurophysiology</i> , <b>2021</b> , 125, 2158-2165	3.2	4
148	Age-related impairment of autophagy in cervical motor neurons. <i>Experimental Gerontology</i> , <b>2021</b> , 144, 111193	4.5	4
147	Growth and survival characteristics of mice. <i>Animal Models and Experimental Medicine</i> , <b>2020</b> , 3, 319-324	4.2	3
146	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> , <b>2020</b> , 11, 213	4.6	3
145	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> , <b>2014</b> , 307, L346	5.8	3
144	Neurotrophins improve synaptic transmission in the adult rodent diaphragm. <i>Neurophysiology</i> , <b>2007</b> , 39, 284-293	0.6	3
143	Oxygen sensing in health and disease. <i>Journal of Applied Physiology</i> , <b>2004</b> , 96, 375	3.7	3
142	Exercise effects on muscle insulin signaling and action. <i>Journal of Applied Physiology</i> , <b>2002</b> , 93, 1-2	3.7	3
141	Mitochondrial Excitation-Energy Coupling in Airway Smooth Muscle. <i>Respiratory Medicine</i> , <b>2014</b> , 93-116	0.2	3

140	The Role of Mitochondria in Calcium Regulation in Airway Smooth Muscle <b>2014</b> , 211-234		3
139	Initiating the Breath: The Drive to Breathe, Muscle Pump. <i>Respiratory Medicine</i> , <b>2018</b> , 151-170	0.2	3
138	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> , <b>2021</b> , 11, 18918	4.9	3
137	Mitochondrial morphology and function varies across diaphragm muscle fiber types. <i>Respiratory Physiology and Neurobiology</i> , <b>2022</b> , 295, 103780	2.8	3
136	Transforming medicine through physiology. <i>Physiology</i> , <b>2015</b> , 30, 173-4	9.8	2
135	Physiology in Perspective: Homeostasis and Survival. <i>Physiology</i> , <b>2018</b> , 33, 84-85	9.8	2
134	Functional Development of Respiratory Muscles <b>2017</b> , 692-705.e3		2
133	Plasticity in respiratory motor control. <i>Journal of Applied Physiology</i> , <b>2003</b> , 94, 1-2	3.7	2
132	Secophalloidin as a novel activator of skinned cardiac muscle. <i>Biochemical and Biophysical Research Communications</i> , <b>2003</b> , 301, 646-9	3.4	2
131	Effect of halothane on cADP-ribose-induced Ca(2+) release system in tracheal smooth muscle. <i>Anesthesiology</i> , <b>2002</b> , 97, 1022-4	4.3	2
130	Calcium-independent activation of skinned cardiac muscle by secophalloidin. <i>FEBS Letters</i> , <b>2002</b> , 519, 201-4	3.8	2
129	Skeletal Muscle Changes in Hypothyroidism <b>2009</b> , 1087-1101		2
128	Transdiaphragmatic pressure measurements reveal age-related diaphragm muscle dysfunction during non-ventilatory behaviors. <i>FASEB Journal</i> , <b>2013</b> , 27, 719.7	0.9	2
127	Cytoskeletal remodeling slows cross-bridge cycling and ATP hydrolysis rates in airway smooth muscle. <i>Physiological Reports</i> , <b>2020</b> , 8, e14561	2.6	2
126	Impact of congenital diaphragmatic hernia on diaphragm muscle function in neonatal rats. <i>Journal of Applied Physiology</i> , <b>2021</b> , 130, 801-812	3.7	2
125	Maintaining intravenous volume mitigates hypothermia-induced myocardial dysfunction and accumulation of intracellular Ca. <i>Experimental Physiology</i> , <b>2021</b> , 106, 1196-1207	2.4	2
124	Tongue muscle contractile, fatigue, and fiber type properties in rats. <i>Journal of Applied Physiology</i> , <b>2021</b> , 131, 1043-1055	3.7	2
123	Inactivity Alters Structural and Functional Properties of the Neuromuscular Junction <b>1996</b> , 59-66		2

122	Physiology in Perspective: Physiology is Everywhere. <i>Physiology</i> , <b>2019</b> , 34, 167-168	9.8	1
121	Life at the extreme: physiological adaptation. <i>Physiology</i> , <b>2015</b> , 30, 84-5	9.8	1
120	The Impact of Sugar-Sweetened Beverage Consumption on the Liver: A Proteomics-based Analysis. <i>Antioxidants</i> , <b>2020</b> , 9,	7.1	1
119	Physiology in perspective: adaptive responses: changing to survive. <i>Physiology</i> , <b>2014</b> , 29, 157-8	9.8	1
118	Physiology in perspective: cell migration and the regenerative process. <i>Physiology</i> , <b>2013</b> , 28, 368-9	9.8	1
117	Design principles for life. <i>Physiology</i> , <b>2013</b> , 28, 7-8	9.8	1
116	Living a healthier lifestyle. <i>Physiology</i> , <b>2014</b> , 29, 302-3	9.8	1
115	Electromyogram-triggered inspiratory event detection algorithm <b>2012</b> ,		1
114	Influence of sex hormones on the neuromuscular junction. <i>Advances in Molecular and Cell Biology</i> , <b>2004</b> , 34, 183-194		1
113	Periodicities in physiological activity at puberty in the female rat. <i>Experimental Neurology</i> , <b>1978</b> , 61, 421-37	3.7	1
112	Physiological Impact of Hypothermia: The Good, the Bad and the Ugly. <i>Physiology</i> , <b>2021</b> ,	9.8	1
111	The Effect of TNF- $\alpha$ on Mitochondrial Morphology in Model (NSC-34) Motor Neurons. <i>FASEB Journal</i> , <b>2019</b> , 33, 542.17	0.9	1
110	Fixed Sample Entropy to Remove Cardiac Noise for Improved Assessments of Diaphragm Muscle Electrical Activity. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	1
109	BDNF/TrkB Signaling Increases Autophagy Flux in Cervical Spinal Cord. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	1
108	Effect of short-term malnutrition on mixed muscle, myosin heavy chain, sarcoplasmic and mitochondrial protein synthesis rates in rat diaphragm muscle. <i>FASEB Journal</i> , <b>2007</b> , 21, A332	0.9	1
107	Conceptual Model of Ventilatory Muscle Recruitment and Diaphragmatic Fatigue <b>1989</b> , 113-123		1
106	Motor Unit Recruitment Order in Diaphragm Muscle Following Spinal Cord Injury. <i>FASEB Journal</i> , <b>2010</b> , 24, 1064.15	0.9	1
105	Frequency-domain analysis of diaphragm muscle EMG activity across ventilatory and non-ventilatory motor behaviors. <i>FASEB Journal</i> , <b>2011</b> , 25, 1111.24	0.9	1

104	Adeno-associated viral delivery of TrkB receptor enhances functional recovery after cervical spinal hemisection. <i>FASEB Journal</i> , <b>2012</b> , 26, lb822	0.9	1
103	Dynamic cytosolic Ca and force responses to muscarinic stimulation in airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2021</b> , 321, L91-L101	5.8	1
102	TrkB signaling contributes to transdiaphragmatic pressure generation in aged mice. <i>Journal of Neurophysiology</i> , <b>2021</b> , 125, 1157-1163	3.2	1
101	Physiology in Perspective: Stem Cells and Regenerative Physiology. <i>Physiology</i> , <b>2018</b> , 33, 14-15	9.8	1
100	Mitochondrial Fragmentation and Dysfunction in Type IIx/IIb Diaphragm Muscle Fibers in 24-Month Old Fischer 344 Rats. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 727585	4.6	1
99	Inactivity-induced remodeling of neuromuscular junctions in rat diaphragmatic muscle <b>1999</b> , 22, 307		1
98	Automated evaluation of respiratory signals to provide insight into respiratory drive.. <i>Respiratory Physiology and Neurobiology</i> , <b>2022</b> , 103872	2.8	1
97	Adapt or Perish. <i>Physiology</i> , <b>2015</b> , 30, 258-9	9.8	0
96	Physiology@ impact: discovering life. <i>Physiology</i> , <b>2013</b> , 28, 4-6	9.8	0
95	Functional Development of Respiratory Muscles <b>2011</b> , 937-952		0
94	Muscle-specific deletion of the vitamin D receptor in mice is associated with diaphragm muscle weakness. <i>Journal of Applied Physiology</i> , <b>2021</b> , 131, 95-106	3.7	0
93	Neuroprotective Role of Akt in Hypoxia Adaptation in Andeans. <i>Frontiers in Neuroscience</i> , <b>2020</b> , 14, 607731	4.1	0
92	Cardiovascular Effects of Epinephrine During Experimental Hypothermia (32°C) With Spontaneous Circulation in an Intact Porcine Model. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 718667	4.6	0
91	CD38-NADase is a new major contributor to Duchenne muscular dystrophic phenotype.. <i>EMBO Molecular Medicine</i> , <b>2022</b> , e12860	12	0
90	Cooling to Hypothermic Circulatory Arrest by Immersion vs. Cardiopulmonary Bypass (CPB): Worse Outcome After Rewarming in Immersion Cooled Pigs.. <i>Frontiers in Physiology</i> , <b>2022</b> , 13, 862729	4.6	0
89	Cervical spinal hemisection alters phrenic motor neuron glutamatergic mRNA receptor expression.. <i>Experimental Neurology</i> , <b>2022</b> , 114030	5.7	0
88	Enhanced Blood Clotting After Rewarming From Experimental Hypothermia in an Intact Porcine Model.. <i>Frontiers in Physiology</i> , <b>2022</b> , 13, 901908	4.6	0
87	Physiology in Perspective: Physiology Without Borders. <i>Physiology</i> , <b>2019</b> , 34, 300-301	9.8	

- 86 Physiology in Perspective: The Dilemma of Muscle Weakness. *Physiology*, **2019**, 34, 230-231 9.8
- 85 Physiology in Perspective: Responding to a Changing Environment. *Physiology*, **2019**, 34, 84-85 9.8
- 84 Physiology in Perspective: The Air We Breathe: Providing O<sub>2</sub> for Survival. *Physiology*, **2015**, 30, 338-9 9.8
- 83 Physiology in Perspective: Fulfilling the Promise of Tissue Engineering. *Physiology*, **2016**, 31, 5-6 9.8
- 82 Living under extreme conditions. *Physiology*, **2014**, 29, 386-7 9.8
- 81 Physiology in Perspective: Why Do We Continue to Ignore Sex Differences?. *Physiology*, **2015**, 30, 406-7 9.8
- 80 Integrative and adaptive responses. *Physiology*, **2015**, 30, 6-7 9.8
- 79 Design principles for life. *Physiology*, **2012**, 27, 330 9.8
- 78 Exploring how cells communicate. *Physiology*, **2013**, 28, 140-1 9.8
- 77 Rebuttal from Gary C. Sieck and Carlos B. Mantilla. *Journal of Physiology*, **2013**, 591, 5265 3.9
- 76 Physiology in perspective: addressing cardiovascular health and disease. *Physiology*, **2013**, 28, 214-5 9.8
- 75 Characterization of secophalloidin-induced force loss in cardiac myofibrils. *Journal of Muscle Research and Cell Motility*, **2009**, 30, 209-16 3.5
- 74 Communicating with our external and internal environments. *Physiology*, **2012**, 27, 185-6 9.8
- 73 Commentary. *Journal of Applied Physiology*, **1999**, 87, 1988-1989 3.7
- 72 Glutamatergic Neurotransmission at Rat Phrenic Motor Neurons. *FASEB Journal*, **2020**, 34, 1-1 0.9
- 71 Disruption of BDNF/TrkB Signaling Alters Glutamatergic mRNA Expression at Phrenic Motor Neurons. *FASEB Journal*, **2020**, 34, 1-1 0.9
- 70 TNF $\alpha$  Increases Mitochondrial Biogenesis in Motor Neurons. *FASEB Journal*, **2020**, 34, 1-1 0.9
- 69 Measuring Cardiac Troponin I Phosphorylation in Viable Primary Cardiomyocytes. *FASEB Journal*, **2020**, 34, 1-1 0.9

68	Diaphragm Muscle Weakness Contributes to Ventilatory Deficits in an Animal Model of Congenital Diaphragmatic Hernia. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9
67	TNF $\alpha$ Decreases Succinate Dehydrogenase Activity in Motor Neurons. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9
66	Functional Development of Respiratory Muscles <b>2004</b> , 848-863	
65	Lung growth and repair. <i>Journal of Applied Physiology</i> , <b>2004</b> , 97, 1169-1169	3.7
64	NEUROMUSCULAR TRANSMISSION SAFETY FACTOR VARIES ACROSS DIAPHRAGM MUSCLE FIBER TYPE. <i>FASEB Journal</i> , <b>2006</b> , 20, A1210	0.9
63	Left ventricular pressure-volume relationship following rewarming from experimental hypothermia in rat. <i>FASEB Journal</i> , <b>2006</b> , 20, A1197	0.9
62	DIAPHRAGM MUSCLE PROTEIN UBIQUITINATION FOLLOWING UNILATERAL DENERVATION. <i>FASEB Journal</i> , <b>2006</b> , 20, A803	0.9
61	The physiologic response to isoproterenol during hypothermia and rewarming. <i>FASEB Journal</i> , <b>2007</b> , 21, A1256	0.9
60	Vascular Smooth Muscle Cell Calcium Sensitivity Is Decreased During Lipopolysaccharide-Mediated Inflammation.. <i>FASEB Journal</i> , <b>2007</b> , 21, A848	0.9
59	Effects of epinephrine and superoxide dismutase on cardiac myocyte function during rewarming following hypothermia. <i>FASEB Journal</i> , <b>2007</b> , 21, A582	0.9
58	Recruitment order of diaphragm muscle (DIAM) motor units is maintained with the restoration of rhythmic DIAM activity following cervical C2 spinal cord hemisection. <i>FASEB Journal</i> , <b>2007</b> , 21, A559	0.9
57	Phrenic motoneuron expression of neurotrophins and their receptor TrkB following cervical C2 spinal cord hemisection. <i>FASEB Journal</i> , <b>2007</b> , 21, A560	0.9
56	Altered cardiac mitochondrial Ca <sup>2+</sup> regulation during rewarming following hypothermia. <i>FASEB Journal</i> , <b>2007</b> , 21, A582	0.9
55	Ca <sup>2+</sup> /Calmodulin-dependent protein kinase regulation of sarcoplasmic reticulum Ca <sup>2+</sup> uptake in airway smooth muscle. <i>FASEB Journal</i> , <b>2008</b> , 22, 764.17	0.9
54	Cx40 modulates agonist-mediated vasoconstriction during lipopolysaccharide induced inflammation. <i>FASEB Journal</i> , <b>2008</b> , 22, 1144.3	0.9
53	Neuregulin minimizes protein degradation induced by dexamethasone. <i>FASEB Journal</i> , <b>2008</b> , 22, 754.4	0.9
52	STIM1 regulates store operated calcium entry (SOCE) in human airway smooth muscle. <i>FASEB Journal</i> , <b>2008</b> , 22, 1213.3	0.9
51	Spinal cord hemisection disrupts descending neuregulin input to phrenic motoneurons. <i>FASEB Journal</i> , <b>2008</b> , 22, 1232.5	0.9

50	Pro-inflammatory Cytokine TNF $\alpha$ Induces Endoplasmic Reticulum Stress Through Reactive Oxygen Species Generation in Human Airway Smooth Muscle Cells. <i>FASEB Journal</i> , <b>2018</b> , 32, 626.1-626.1	0.9
49	Dynamic Assessment of Ca <sup>2+</sup> Sensitivity of Isometric Force in Intact Airway Smooth Muscle Using Phase Loop Plots. <i>FASEB Journal</i> , <b>2018</b> , 32, 770.6	0.9
48	Oxidative Stress-Induced Changes in Ca <sup>2+</sup> Sensitivity of Cardiomyocytes Do Not Recover. <i>FASEB Journal</i> , <b>2018</b> , 32, 583.1	0.9
47	Effect of TNF $\alpha$ on Mitochondrial Function and Mitochondrial Biogenesis in Human Airway Smooth Muscle. <i>FASEB Journal</i> , <b>2019</b> , 33, 734.16	0.9
46	Acute Impact of Disrupting BDNF/TrkB Signaling on Diaphragm Muscle Force Generation across Motor Behaviors. <i>FASEB Journal</i> , <b>2019</b> , 33, 844.13	0.9
45	Tunicamycin-induced ER Stress Effect on Cardiac Contractility. <i>FASEB Journal</i> , <b>2019</b> , 33, lb598	0.9
44	The Effects of TNF $\alpha$ on Mitochondria Morphology are Mediated by Endoplasmic Reticulum Stress in Human Airway Smooth Muscle Cells. <i>FASEB Journal</i> , <b>2019</b> , 33, 734.15	0.9
43	Aging effects on oxidative capacity in type-identified diaphragm muscle fibers. <i>FASEB Journal</i> , <b>2019</b> , 33, 539.3	0.9
42	Ischemia/Reperfusion-Induced Reduction of Ca <sup>2+</sup> Sensitivity in Isolated Cardiomyocytes. <i>FASEB Journal</i> , <b>2019</b> , 33, 690.1	0.9
41	The Role of TrkB Kinase Activity in Stabilization of Presynaptic Terminals Wanes in Old Age. <i>FASEB Journal</i> , <b>2019</b> , 33, 844.11	0.9
40	Age does not increase muscle fatigue resistance of the diaphragm. <i>FASEB Journal</i> , <b>2019</b> , 33, 538.4	0.9
39	Distribution of Ipsilateral and Contralateral Glutamatergic Synaptic Inputs to Phrenic Motor Neurons. <i>FASEB Journal</i> , <b>2019</b> , 33, 844.14	0.9
38	The Diaphragm Muscle <b>2019</b> , 7-20	
37	Mechanisms Underlying TNF $\alpha$ Induced Hyperreactivity in Airway Smooth Muscle. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9
36	Inhibiting Cytoskeletal Remodeling Increases Tension Cost in Airway Smooth Muscle. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9
35	TNF $\alpha$ Exposure Decreases Mitochondrial O <sub>2</sub> Consumption in Motor Neurons. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9
34	Autophagy Impairment in Aging Motor Neurons. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9
33	Age-Related Loss of Phrenic Motor Neurons: Reduced Myogenic Influence?. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9



- 32 Size-Dependence of Mitochondrial Density & Morphology in Phrenic Motor Neurons. *FASEB Journal*, **2020**, 34, 1-1 0.9
- 31 Assessment of Diaphragm EMG Activity Recovery Following Upper Cervical Spinal Cord Injury. *FASEB Journal*, **2015**, 29, 659.9 0.9
- 30 Diaphragm Muscle Sarcopenia is Present in Both Male and Female Mice. *FASEB Journal*, **2015**, 29, 660.7 0.9
- 29 A Novel Approach to Target Motoneurons Using Mesoporous Silica Nanoparticles. *FASEB Journal*, **2015**, 29, 660.9 0.9
- 28 Mesenchymal Stem Cell Survival after Intraspinal Transplantation. *FASEB Journal*, **2015**, 29, 1013.4 0.9
- 27 A Novel Method to Quantify Diaphragm Muscle Fiber Type Clustering in the Context of Sarcopenia. *FASEB Journal*, **2015**, 29, 660.8 0.9
- 26 Stress Responses Initiated in Cardiomyocytes during Hypothermia-Induced Rewarming Shock. *FASEB Journal*, **2015**, 29, 946.5 0.9
- 25 Unilateral Denervation of the Diaphragm Muscle Increases Central Drive Only During Ventilatory Behaviors. *FASEB Journal*, **2015**, 29, 1013.5 0.9
- 24 Neuregulin-1: a trophic factor for phrenic motoneurons. *FASEB Journal*, **2009**, 23, 783.4 0.9
- 23 Enhanced three-dimensional visualization of rat phrenic motoneurons.. *FASEB Journal*, **2009**, 23, 783.3 0.9
- 22 Lipopolysaccharide-induced inflammation reduces tyrosine phosphorylation of cardiac connexin 43. *FASEB Journal*, **2009**, 23, 805.14 0.9
- 21 Recruitment Order of Diaphragm Motor Units During Different Respiratory Behaviors. *FASEB Journal*, **2009**, 23, 1010.6 0.9
- 20 Differing responses to TNF in HeLa cells expressing vascular connexins. *FASEB Journal*, **2009**, 23, 594.12 0.9
- 19 Unilateral denervation changes NRG/ErbB signaling in adult rat diaphragm muscle. *FASEB Journal*, **2009**, 23, 782.8 0.9
- 18 Complexity in intracellular regulation of protein balance following unilateral diaphragm denervation. *FASEB Journal*, **2010**, 24, 1046.2 0.9
- 17 Vascular Gap Junction Cx37 Uncoupling By Tumor Necrosis Factor Is Dependent On ZO-1. *FASEB Journal*, **2010**, 24, 776.3 0.9
- 16 Neuregulin improves neuromuscular transmission in diaphragm muscle of young rats. *FASEB Journal*, **2010**, 24, 1064.12 0.9
- 15 Impact of BDNF/TrkB signaling on recovery of phrenic activity after cervical spinal cord injury in rats. *FASEB Journal*, **2010**, 24, 1064.14 0.9

14	Dynamic $[Ca^{2+}]_i$ regulation in human airway smooth muscle by STIM and Orai1 proteins. <i>FASEB Journal</i> , <b>2010</b> , 24, 1062.8	0.9
13	Dynamic changes in cardiovascular function during diving and decompression at different core temperatures. <i>FASEB Journal</i> , <b>2011</b> , 25, lb560	0.9
12	Nonlinear Time-Domain Analysis of EMG Activity Reveals the Timing of Motor Unit Recruitment in Diaphragm Muscle. <i>FASEB Journal</i> , <b>2012</b> , 26, lb828	0.9
11	Role of bone marrow-derived mesenchymal stem cells in recovery following cervical spinal hemisection. <i>FASEB Journal</i> , <b>2012</b> , 26, 1147.1	0.9
10	Reduced ventilatory function and sarcopenia of the diaphragm muscle in a mouse model of advanced aging. <i>FASEB Journal</i> , <b>2012</b> , 26, lb779	0.9
9	Impact of TrkB signaling on recovery of phrenic activity after cervical spinal cord injury in rats. <i>FASEB Journal</i> , <b>2012</b> , 26, 1147.2	0.9
8	TrkB kinase activity is necessary for spontaneous recovery of ipsilateral rhythmic phrenic activity following cervical spinal cord hemisection. <i>FASEB Journal</i> , <b>2013</b> , 27, 719.5	0.9
7	Orderly Recruitment of Diaphragm Motor Units Across Ventilatory and Non-Ventilatory Motor Behaviors. <i>FASEB Journal</i> , <b>2013</b> , 27, 719.8	0.9
6	Glutamatergic neurotransmission plays a role in BDNF/TrkB.FL-induced enhancement of functional recovery after cervical spinal hemisection. <i>FASEB Journal</i> , <b>2013</b> , 27, 719.6	0.9
5	Improving gas exchange and exercise tolerance in mild COPD patients. <i>Journal of Physiology</i> , <b>2021</b> , 599, 1943-1944	3.9
4	Effects of TNF $\alpha$ on Dynamic Cytosolic Ca and Force Responses to Muscarinic Stimulation in Airway Smooth Muscle. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 730333	4.6
3	Physiology in Perspective: Pursuing the Enchanted Loom of Motor Control. <i>Physiology</i> , <b>2016</b> , 31, 81-2	9.8
2	Physiology in Perspective: Of Mice and Men. <i>Physiology</i> , <b>2019</b> , 34, 3-4	9.8
1	Rewarming With Closed Thoracic Lavage Following 3-h CPR at 27°C Failed to Reestablish a Perfusing Rhythm. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 741241	4.6