

# Thomas L Clanton

## List of Publications by Citations

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96  
papers

2,705  
citations

29  
h-index

50  
g-index

106  
ext. papers

3,038  
ext. citations

2.8  
avg, IF

5.24  
L-index

#	Paper	IF	Citations
96	Hypoxia-induced reactive oxygen species formation in skeletal muscle. <i>Journal of Applied Physiology</i> , <b>2007</b> , 102, 2379-88	3.7	260
95	Increased susceptibility to pulmonary emphysema among HIV-seropositive smokers. <i>Annals of Internal Medicine</i> , <b>2000</b> , 132, 369-72	8	226
94	Intra- and extracellular measurement of reactive oxygen species produced during heat stress in diaphragm muscle. <i>American Journal of Physiology - Cell Physiology</i> , <b>2000</b> , 279, C1058-66	5.4	138
93	Antioxidants protect rat diaphragmatic muscle function under hypoxic conditions. <i>Journal of Applied Physiology</i> , <b>1998</b> , 84, 1960-6	3.7	97
92	Unique in vivo applications of spin traps. <i>Free Radical Biology and Medicine</i> , <b>2001</b> , 30, 489-99	7.8	95
91	Oxidants and skeletal muscle function: physiologic and pathophysiologic implications. <i>Proceedings of the Society for Experimental Biology and Medicine</i> , <b>1999</b> , 222, 253-62		91
90	Lipoxygenase-dependent superoxide release in skeletal muscle. <i>Journal of Applied Physiology</i> , <b>2004</b> , 97, 661-8	3.7	88
89	Reactive oxygen species formation in the transition to hypoxia in skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , <b>2005</b> , 289, C207-16	5.4	83
88	Respiratory symptoms among HIV-seropositive individuals. <i>Chest</i> , <b>2003</b> , 123, 1977-82	5.3	76
87	Redox modulation of global phosphatase activity and protein phosphorylation in intact skeletal muscle. <i>Journal of Physiology</i> , <b>2009</b> , 587, 5767-81	3.9	66
86	Invited review: Adaptive responses of skeletal muscle to intermittent hypoxia: the known and the unknown. <i>Journal of Applied Physiology</i> , <b>2001</b> , 90, 2476-87	3.7	65
85	High- vs low-intensity inspiratory muscle interval training in patients with COPD. <i>Chest</i> , <b>1994</b> , 106, 110-7	5.3	64
84	Clinical assessment of the respiratory muscles. <i>Physical Therapy</i> , <b>1995</b> , 75, 983-95	3.3	64
83	The regulation of interleukin-6 implicates skeletal muscle as an integrative stress sensor and endocrine organ. <i>Experimental Physiology</i> , <b>2013</b> , 98, 359-71	2.4	62
82	Improved pulmonary function and exercise tolerance with inspiratory muscle conditioning in children with cystic fibrosis. <i>Chest</i> , <b>1993</b> , 104, 1490-7	5.3	60
81	Macrophage-colony-stimulating factor-induced activation of extracellular-regulated kinase involves phosphatidylinositol 3-kinase and reactive oxygen species in human monocytes. <i>Journal of Immunology</i> , <b>2002</b> , 169, 6427-34	5.3	59
80	Inspiratory muscle conditioning using a threshold loading device. <i>Chest</i> , <b>1985</b> , 87, 62-6	5.3	59

79	Hyperthermia increases interleukin-6 in mouse skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , <b>2012</b> , 303, C455-66	5.4	57
78	NMR spin trapping: detection of free radical reactions using a phosphorus-containing nitron spin trap. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 42, 228-34	4.4	50
77	Regulation of cellular gas exchange, oxygen sensing, and metabolic control. <i>Comprehensive Physiology</i> , <b>2013</b> , 3, 1135-90	7.7	49
76	Heat stroke activates a stress-induced cytokine response in skeletal muscle. <i>Journal of Applied Physiology</i> , <b>2013</b> , 115, 1126-37	3.7	46
75	Detection of reactive oxygen and nitrogen species in tissues using redox-sensitive fluorescent probes. <i>Methods in Enzymology</i> , <b>2002</b> , 352, 307-25	1.7	45
74	COPD elicits remodeling of the diaphragm and vastus lateralis muscles in humans. <i>Journal of Applied Physiology</i> , <b>2013</b> , 114, 1235-45	3.7	43
73	Respiratory muscle fiber remodeling in chronic hyperinflation: dysfunction or adaptation?. <i>Journal of Applied Physiology</i> , <b>2009</b> , 107, 324-35	3.7	42
72	Protection of intestinal injury during heat stroke in mice by interleukin-6 pretreatment. <i>Journal of Physiology</i> , <b>2015</b> , 593, 739-52; discussion 753	3.9	37
71	Reversible Reactions of Thiols and Thiol Radicals with Nitron Spin Traps. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 9315-9324	3.4	33
70	Tumor necrosis factor and endotoxin do not directly affect in vitro diaphragm function. <i>The American Review of Respiratory Disease</i> , <b>1993</b> , 148, 281-7		33
69	Skeletal muscle interleukin-6 regulation in hyperthermia. <i>American Journal of Physiology - Cell Physiology</i> , <b>2013</b> , 305, C406-13	5.4	31
68	Unique cytokine and chemokine responses to exertional heat stroke in mice. <i>Journal of Applied Physiology</i> , <b>2017</b> , 122, 296-306	3.7	30
67	Biomarkers of multiorgan injury in a preclinical model of exertional heat stroke. <i>Journal of Applied Physiology</i> , <b>2015</b> , 118, 1207-20	3.7	29
66	Sources for superoxide release: lessons from blockade of electron transport, NADPH oxidase, and anion channels in diaphragm. <i>Antioxidants and Redox Signaling</i> , <b>2003</b> , 5, 667-75	8.4	28
65	Hyperthermia, dehydration, and osmotic stress: unconventional sources of exercise-induced reactive oxygen species. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2016</b> , 310, R105-14	3.2	26
64	NMR spin trapping: detection of free radical reactions with a new fluorinated DMPO analog. <i>Free Radical Biology and Medicine</i> , <b>2001</b> , 30, 1099-107	7.8	26
63	O <sub>2</sub> delivery and redox state are determinants of compartment-specific reactive O <sub>2</sub> species in myocardial reperfusion. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2007</b> , 292, H109-16	5.2	25
62	Reactive oxygen species generated during myocardial ischemia enable energetic recovery during reperfusion. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2002</b> , 283, H1656-61	5.2	24

61	Regional susceptibility to stress-induced intestinal injury in the mouse. <i>American Journal of Physiology - Renal Physiology</i> , <b>2013</b> , 305, G418-26	5.1	23
60	Redox-sensitive mechanism of NO scavenging by nitronyl nitroxides. <i>Free Radical Biology and Medicine</i> , <b>2004</b> , 36, 248-58	7.8	22
59	HIV infection increases susceptibility to smoking-induced emphysema. <i>Chest</i> , <b>2000</b> , 117, 285S	5.3	22
58	Biological reactions of peroxynitrite: evidence for an alternative pathway of salicylate hydroxylation. <i>Free Radical Research</i> , <b>1997</b> , 27, 63-72	4	21
57	Dithiothreitol improves recovery from in vitro diaphragm fatigue. <i>Medicine and Science in Sports and Exercise</i> , <b>1998</b> , 30, 421-6	1.2	20
56	Low flow after global ischemia to improve postischemic myocardial function and bioenergetics. <i>Critical Care Medicine</i> , <b>2002</b> , 30, 2542-7	1.4	17
55	Nonradical mechanism of (bi)sulfite reaction with DEPMPO: cautionary note for SO <sub>3</sub> <sup>•-</sup> radical spin trapping. <i>Free Radical Biology and Medicine</i> , <b>2003</b> , 34, 196-206	7.8	16
54	Regional differences in emphysema scores and BAL glutathione levels in HIV-infected individuals. <i>Chest</i> , <b>2004</b> , 126, 1439-42	5.3	16
53	Managing the power grid: how myoglobin can regulate PO and energy distribution in skeletal muscle. <i>Journal of Applied Physiology</i> , <b>2019</b> , 126, 787-790	3.7	16
52	Sex-dependent responses to exertional heat stroke in mice. <i>Journal of Applied Physiology</i> , <b>2018</b> , 125, 841-849	3.7	15
51	Myocardial contractile function during postischemic low-flow reperfusion: critical thresholds of NADH and O <sub>2</sub> delivery. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2004</b> , 286, H375-80	5.3	15
50	NMR and EPR studies of the reaction of nucleophilic addition of (bi)sulfite to the nitronyl spin trap DMPO. <i>Magnetic Resonance in Chemistry</i> , <b>2003</b> , 41, 603-608	2.1	15
49	Detection of free radicals in blood by electron spin resonance in a model of respiratory failure in the rat. <i>Free Radical Biology and Medicine</i> , <b>1994</b> , 17, 467-72	7.8	14
48	The Impact of Hyperthermia on Receptor-Mediated Interleukin-6 Regulation in Mouse Skeletal Muscle. <i>PLoS ONE</i> , <b>2016</b> , 11, e0148927	3.7	14
47	Delayed metabolic dysfunction in myocardium following exertional heat stroke in mice. <i>Journal of Physiology</i> , <b>2020</b> , 598, 967-985	3.9	13
46	Selected Contribution: Improved anoxic tolerance in rat diaphragm following intermittent hypoxia. <i>Journal of Applied Physiology</i> , <b>2001</b> , 90, 2508-13	3.7	13
45	Xiphoid Surface Temperature Predicts Mortality in a Murine Model of Septic Shock. <i>Shock</i> , <b>2018</b> , 50, 226-232	3.4	12
44	Thermal tolerance of contractile function in oxidative skeletal muscle: no protection by antioxidants and reduced tolerance with eicosanoid enzyme inhibition. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2008</b> , 295, R1695-705	3.2	10

43	Tension-time index, fatigue, and energetics in isolated rat diaphragm: a new experimental model. <i>Journal of Applied Physiology</i> , <b>2004</b> , 96, 89-95	3.7	9
42	Quantitative determination of SH groups using <sup>19</sup> F NMR spectroscopy and disulfide of 2,3,5,6-tetrafluoro-4-mercaptobenzoic acid. <i>Magnetic Resonance in Chemistry</i> , <b>2005</b> , 43, 902-9	2.1	9
41	Skeletal Muscle Interleukin-6 Contributes to the Innate Immune Response in Septic Mice. <i>Shock</i> , <b>2021</b> , 55, 676-685	3.4	9
40	Exertional heat stroke leads to concurrent long-term epigenetic memory, immunosuppression and altered heat shock response in female mice. <i>Journal of Physiology</i> , <b>2021</b> , 599, 119-141	3.9	9
39	Epinephrine stimulates CXCL1 IL-1, IL-6 secretion in isolated mouse limb muscle. <i>Physiological Reports</i> , <b>2017</b> , 5, e13519	2.6	8
38	Marked pulmonary function abnormalities in a case of HIV-associated pulmonary hypertension. <i>Chest</i> , <b>1993</b> , 104, 313-5	5.3	6
37	Acute phase response to exertional heat stroke in mice. <i>Experimental Physiology</i> , <b>2021</b> , 106, 222-232	2.4	6
36	Lung CD4 lymphocytes predict survival in asymptomatic HIV infection. <i>Chest</i> , <b>2005</b> , 128, 2262-7	5.3	4
35	Surfactant treatment impairs gas exchange in a canine model of acute lung injury. <i>Critical Care Medicine</i> , <b>2000</b> , 28, 2887-92	1.4	4
34	Skeletal muscle fibers play a functional role in host defense during sepsis in mice. <i>Scientific Reports</i> , <b>2021</b> , 11, 7316	4.9	4
33	NMR Spin Trapping: Insight into the Hidden Life of Free Radical Adducts. <i>Applied Magnetic Resonance</i> , <b>2011</b> , 41, 305-323	0.8	3
32	High-dose furosemide alters gas exchange in a model of acute lung injury. <i>Journal of Critical Care</i> , <b>1996</b> , 11, 129-37	4	3
31	Effects of Ibuprofen during Exertional Heat Stroke in Mice. <i>Medicine and Science in Sports and Exercise</i> , <b>2020</b> , 52, 1870-1878	1.2	3
30	Pathophysiology and Treatment Strategies of Acute Myopathy and Muscle Wasting after Sepsis. <i>Journal of Clinical Medicine</i> , <b>2021</b> , 10,	5.1	3
29	Osmolality Selectively Offsets the Impact of Hyperthermia on Mouse Skeletal Muscle. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1496	4.6	2
28	The impact of hindlimb disuse on sepsis-induced myopathy in mice. <i>Physiological Reports</i> , <b>2021</b> , 9, e14972.6	2.6	1
27	A Preclinical Model of Exertional Heat Stroke in Mice. <i>Journal of Visualized Experiments</i> , <b>2021</b> ,	1.6	1
26	Epigenetic responses to exertional heat stroke in mice: a potential link to long term Ca <sup>2+</sup> dysregulation in skeletal muscle. <i>FASEB Journal</i> , <b>2018</b> , 32, 590.14	0.9	0

25	Epigenetic Memory and Phenotype Change Observed in Mouse Skeletal Muscle 30 Days after Exertional Heat Stroke. <i>FASEB Journal</i> , <b>2019</b> , 33, 842.5	0.9	0
24	Last Word on Viewpoint: Managing the power grid: how myoglobin can regulate Po and energy distribution in skeletal muscle. <i>Journal of Applied Physiology</i> , <b>2019</b> , 126, 795	3.7	
23	Effects of oxidants on global phosphatase activity in isolated diaphragm. <i>FASEB Journal</i> , <b>2008</b> , 22, 757.35.9		
22	Origins Of Slow And Fast Calcium Transients In Intact Skeletal Muscle. <i>Medicine and Science in Sports and Exercise</i> , <b>2008</b> , 40, S240-S241	1.2	
21	Heart Metabolic Responses to Exertional Heat Stroke Are Dependent Upon Sex. <i>FASEB Journal</i> , <b>2018</b> , 32, 590.10	0.9	
20	Ibuprofen increases resistance to exertional heat stroke in female mice. <i>FASEB Journal</i> , <b>2018</b> , 32, 590.130.9		
19	Senescent Skeletal Muscle Produces a Distinct Cytokine Secretory Profile in Response to Endotoxin Exposure in Vitro. <i>FASEB Journal</i> , <b>2018</b> , 32, 907.12	0.9	
18	Skeletal Muscle Produces Acute Phase Proteins in Response to Polymicrobial Sepsis. <i>FASEB Journal</i> , <b>2018</b> , 32, 819.14	0.9	
17	A Hydrogen Sulfide Donor NSAID Influences Inflammatory Cell Responses Following Exertional Heat Stroke. <i>FASEB Journal</i> , <b>2019</b> , 33, 764.4	0.9	
16	Deficits in Motor Function After Repeated Exertional Heat Stroke Exposure in Female Mice. <i>FASEB Journal</i> , <b>2019</b> , 33, 1b444	0.9	
15	Ibuprofen effects on the response to exertional heat stroke in male and female mice. <i>FASEB Journal</i> , <b>2019</b> , 33, 842.6	0.9	
14	Intestinal permeability during hyperthermia in the mouse: no protection of superoxide scavenging. <i>FASEB Journal</i> , <b>2009</b> , 23, 778.6	0.9	
13	Fast and slow Ca <sup>2+</sup> transients in intact fast-twitch skeletal muscle: tissue photometry and 2D confocal detection.. <i>FASEB Journal</i> , <b>2009</b> , 23, 600.25	0.9	
12	Paracrine responses to hyperthermia: do cells warn their neighbors about environmental stress?. <i>FASEB Journal</i> , <b>2010</b> , 24, 816.11	0.9	
11	Protection of the intestinal barrier in hyperthermia: defining the role of 12/15-lipoxygenase.. <i>FASEB Journal</i> , <b>2010</b> , 24, 1004.8	0.9	
10	Up regulation of skeletal muscle IL-6 mRNA in response to hyperthermia. <i>FASEB Journal</i> , <b>2010</b> , 24, 1046.11.9		
9	Tissue damage causes hyperthermia-induced loss of intestinal barrier function via an oxidative stress pathway. <i>FASEB Journal</i> , <b>2010</b> , 24, 1004.5	0.9	
8	Regional susceptibility of the small intestine to hyperthermia. <i>FASEB Journal</i> , <b>2010</b> , 24, 1004.7	0.9	

- 7 Intracellular Ca<sup>2+</sup> transients during fatigue in intact skeletal muscle: role of Ca<sup>2+</sup> in low frequency fatigue. *FASEB Journal*, **2010**, 24, 1048.11 0.9
- 6 Histological evidence for regional injury to the mouse intestine in heatstroke. *FASEB Journal*, **2011**, 25, 1052.1 0.9
- 5 IL-6 supplementation increases thermotolerance and reduces intestinal permeability in anesthetized mice. *FASEB Journal*, **2011**, 25, 1052.2 0.9
- 4 Hyperthermia potentiates the IL-6 mRNA response to LPS in C2C12 muscle cells. *FASEB Journal*, **2012**, 26, 1083.4 0.9
- 3 The impact of IL-6 supplementation on murine intestinal permeability and systemic cytokine levels following heat stroke. *FASEB Journal*, **2012**, 26, 1079.5 0.9
- 2 Heat shock factor-1 regulates IL-6 promoter activity in C2C12 muscle myotubes. *FASEB Journal*, **2013**, 27, 1200.2 0.9
- 1 Sustained Metabolic Switch to Lipid Oxidation In Murine Cardiac Muscle After Exertional Heat Stroke. *Medicine and Science in Sports and Exercise*, **2018**, 50, 120 1.2