

# Leonardo F Ferreira

## 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.

83

papers

2,319

citations

28

h-index

47

g-index

93

ext. papers

2,610

ext. citations

3.4

avg, IF

4.97

L-index

#	Paper	IF	Citations
83	Muscle-derived ROS and thiol regulation in muscle fatigue. <i>Journal of Applied Physiology</i> , <b>2008</b> , 104, 853-60	3.7	157
82	Muscle capillary blood flow kinetics estimated from pulmonary O <sub>2</sub> uptake and near-infrared spectroscopy. <i>Journal of Applied Physiology</i> , <b>2005</b> , 98, 1820-8	3.7	133
81	Heliox improves oxygen delivery and utilization during dynamic exercise in patients with chronic obstructive pulmonary disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2009</b> , 179, 1004-10	10.2	106
80	Dynamics of noninvasively estimated microvascular O <sub>2</sub> extraction during ramp exercise. <i>Journal of Applied Physiology</i> , <b>2007</b> , 103, 1999-2004	3.7	90
79	Kinetics of muscle deoxygenation are accelerated at the onset of heavy-intensity exercise in patients with COPD: relationship to central cardiovascular dynamics. <i>Journal of Applied Physiology</i> , <b>2008</b> , 104, 1341-50	3.7	86
78	HDAC1 activates FoxO and is both sufficient and required for skeletal muscle atrophy. <i>Journal of Cell Science</i> , <b>2014</b> , 127, 1441-53	5.3	79
77	Loss of the inducible Hsp70 delays the inflammatory response to skeletal muscle injury and severely impairs muscle regeneration. <i>PLoS ONE</i> , <b>2013</b> , 8, e62687	3.7	76
76	Doxorubicin acts through tumor necrosis factor receptor subtype 1 to cause dysfunction of murine skeletal muscle. <i>Journal of Applied Physiology</i> , <b>2009</b> , 107, 1935-42	3.7	75
75	Blood flow and O <sub>2</sub> extraction as a function of O <sub>2</sub> uptake in muscles composed of different fiber types. <i>Respiratory Physiology and Neurobiology</i> , <b>2006</b> , 153, 237-49	2.8	73
74	Human femoral artery and estimated muscle capillary blood flow kinetics following the onset of exercise. <i>Experimental Physiology</i> , <b>2006</b> , 91, 661-71	2.4	71
73	Diaphragm and ventilatory dysfunction during cancer cachexia. <i>FASEB Journal</i> , <b>2013</b> , 27, 2600-10	0.9	70
72	Regulation of NADPH oxidases in skeletal muscle. <i>Free Radical Biology and Medicine</i> , <b>2016</b> , 98, 18-28	7.8	69
71	Effects of assuming constant optical scattering on measurements of muscle oxygenation by near-infrared spectroscopy during exercise. <i>Journal of Applied Physiology</i> , <b>2007</b> , 102, 358-67	3.7	66
70	Genome-wide identification of FoxO-dependent gene networks in skeletal muscle during C26 cancer cachexia. <i>BMC Cancer</i> , <b>2014</b> , 14, 997	4.8	64
69	Muscle blood flow-O <sub>2</sub> uptake interaction and their relation to on-exercise dynamics of O <sub>2</sub> exchange. <i>Respiratory Physiology and Neurobiology</i> , <b>2005</b> , 147, 91-103	2.8	55
68	Mechanical properties of respiratory muscles. <i>Comprehensive Physiology</i> , <b>2013</b> , 3, 1553-67	7.7	54
67	Kinetics of muscle deoxygenation and microvascular PO <sub>2</sub> during contractions in rat: comparison of optical spectroscopy and phosphorescence-quenching techniques. <i>Journal of Applied Physiology</i> , <b>2012</b> , 112, 26-32	3.7	51

66	Diaphragm abnormalities in heart failure and aging: mechanisms and integration of cardiovascular and respiratory pathophysiology. <i>Heart Failure Reviews</i> , <b>2017</b> , 22, 191-207	5	50
65	Bronchodilators accelerate the dynamics of muscle O2 delivery and utilisation during exercise in COPD. <i>Thorax</i> , <b>2010</b> , 65, 588-93	7.3	46
64	Effects of pedal frequency on estimated muscle microvascular O2 extraction. <i>European Journal of Applied Physiology</i> , <b>2006</b> , 96, 558-63	3.4	43
63	The final frontier: oxygen flux into muscle at exercise onset. <i>Exercise and Sport Sciences Reviews</i> , <b>2007</b> , 35, 166-73	6.7	42
62	Sphingomyelinase stimulates oxidant signaling to weaken skeletal muscle and promote fatigue. <i>American Journal of Physiology - Cell Physiology</i> , <b>2010</b> , 299, C552-60	5.4	40
61	The effects of aging on capillary hemodynamics in contracting rat spinotrapezius muscle. <i>Microvascular Research</i> , <b>2009</b> , 77, 113-9	3.7	38
60	Kinetics of estimated human muscle capillary blood flow during recovery from exercise. <i>Experimental Physiology</i> , <b>2005</b> , 90, 715-26	2.4	36
59	Phrenic nerve stimulation increases human diaphragm fiber force after cardiothoracic surgery. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2014</b> , 190, 837-9	10.2	32
58	Uremic metabolites impair skeletal muscle mitochondrial energetics through disruption of the electron transport system and matrix dehydrogenase activity. <i>American Journal of Physiology - Cell Physiology</i> , <b>2019</b> , 317, C701-C713	5.4	31
57	Diaphragm dysfunction in heart failure is accompanied by increases in neutral sphingomyelinase activity and ceramide content. <i>European Journal of Heart Failure</i> , <b>2014</b> , 16, 519-25	12.3	30
56	N-acetylcysteine in handgrip exercise: plasma thiols and adverse reactions. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , <b>2011</b> , 21, 146-54	4.4	30
55	Temporal profile of rat skeletal muscle capillary haemodynamics during recovery from contractions. <i>Journal of Physiology</i> , <b>2006</b> , 573, 787-97	3.9	28
54	Dynamics of skeletal muscle oxygenation during sequential bouts of moderate exercise. <i>Experimental Physiology</i> , <b>2005</b> , 90, 393-401	2.4	28
53	Reply to Quaresima and Ferrari. <i>Journal of Applied Physiology</i> , <b>2009</b> , 107, 372-373	3.7	27
52	Oxygen exchange in muscle of young and old rats: muscle-vascular-pulmonary coupling. <i>Experimental Physiology</i> , <b>2007</b> , 92, 341-6	2.4	27
51	Pharmacological targeting of mitochondrial reactive oxygen species counteracts diaphragm weakness in chronic heart failure. <i>Journal of Applied Physiology</i> , <b>2016</b> , 120, 733-42	3.7	26
50	NAD(P)H oxidase subunit p47phox is elevated, and p47phox knockout prevents diaphragm contractile dysfunction in heart failure. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2015</b> , 309, L497-505	5.8	25
49	Sphingomyelinase depresses force and calcium sensitivity of the contractile apparatus in mouse diaphragm muscle fibers. <i>Journal of Applied Physiology</i> , <b>2012</b> , 112, 1538-45	3.7	24

48	Effects of arterial hypotension on microvascular oxygen exchange in contracting skeletal muscle. <i>Journal of Applied Physiology</i> , <b>2006</b> , 100, 1019-26	3.7	24
47	L-2-Oxothiazolidine-4-carboxylate reverses glutathione oxidation and delays fatigue of skeletal muscle in vitro. <i>Journal of Applied Physiology</i> , <b>2009</b> , 107, 211-6	3.7	21
46	Muscle microvascular hemoglobin concentration and oxygenation within the contraction-relaxation cycle. <i>Respiratory Physiology and Neurobiology</i> , <b>2008</b> , 160, 131-8	2.8	21
45	An injectable capillary-like microstructured alginate hydrogel improves left ventricular function after myocardial infarction in rats. <i>International Journal of Cardiology</i> , <b>2016</b> , 220, 149-54	3.2	21
44	Aging impacts microvascular oxygen pressures during recovery from contractions in rat skeletal muscle. <i>Respiratory Physiology and Neurobiology</i> , <b>2009</b> , 169, 315-22	2.8	20
43	The effects of antioxidants on microvascular oxygenation and blood flow in skeletal muscle of young rats. <i>Experimental Physiology</i> , <b>2009</b> , 94, 961-71	2.4	20
42	Effects of antioxidants on contracting spinotrapezius muscle microvascular oxygenation and blood flow in aged rats. <i>Journal of Applied Physiology</i> , <b>2008</b> , 105, 1889-96	3.7	20
41	Diaphragm atrophy and contractile dysfunction in a murine model of pulmonary hypertension. <i>PLoS ONE</i> , <b>2013</b> , 8, e62702	3.7	20
40	Diaphragm dysfunction caused by sphingomyelinase requires the p47(phox) subunit of NADPH oxidase. <i>Respiratory Physiology and Neurobiology</i> , <b>2015</b> , 205, 47-52	2.8	14
39	Advanced aging causes diaphragm functional abnormalities, global proteome remodeling, and loss of mitochondrial cysteine redox flexibility in mice. <i>Experimental Gerontology</i> , <b>2018</b> , 103, 69-79	4.5	14
38	Frequency-domain characteristics and filtering of blood flow following the onset of exercise: implications for kinetics analysis. <i>Journal of Applied Physiology</i> , <b>2006</b> , 100, 817-25	3.7	13
37	Recovery dynamics of skeletal muscle oxygen uptake during the exercise off-transient. <i>Respiratory Physiology and Neurobiology</i> , <b>2009</b> , 168, 254-60	2.8	12
36	Effectiveness of sulfur-containing antioxidants in delaying skeletal muscle fatigue. <i>Medicine and Science in Sports and Exercise</i> , <b>2011</b> , 43, 1025-31	1.2	12
35	A toast to health and performance! Beetroot juice lowers blood pressure and the O <sub>2</sub> cost of exercise. <i>Journal of Applied Physiology</i> , <b>2011</b> , 110, 585-6	3.7	11
34	Kinetics analysis of muscle arterial-venous O <sub>2</sub> difference profile during exercise. <i>Respiratory Physiology and Neurobiology</i> , <b>2010</b> , 173, 51-7	2.8	11
33	Matching of blood flow to metabolic rate during recovery from moderate exercise in humans. <i>Experimental Physiology</i> , <b>2008</b> , 93, 1118-25	2.4	11
32	Impaired muscle mitochondrial energetics is associated with uremic metabolite accumulation in chronic kidney disease. <i>JCI Insight</i> , <b>2020</b> , 6,	9.9	11
31	Chronic heart failure alters orexin and melanin concentrating hormone but not corticotrophin releasing hormone-related gene expression in the brain of male Lewis rats. <i>Neuropeptides</i> , <b>2015</b> , 52, 67-72	3.3	9

30	Chronic kidney disease exacerbates ischemic limb myopathy in mice via altered mitochondrial energetics. <i>Scientific Reports</i> , <b>2019</b> , 9, 15547	4.9	9
29	A degradable, bioactive, gelatinized alginate hydrogel to improve stem cell/growth factor delivery and facilitate healing after myocardial infarction. <i>Medical Hypotheses</i> , <b>2012</b> , 79, 673-7	3.8	9
28	Small-hairpin RNA and pharmacological targeting of neutral sphingomyelinase prevent diaphragm weakness in rats with heart failure and reduced ejection fraction. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2019</b> , 316, L679-L690	5.8	8
27	Janus kinase inhibition prevents cancer- and myocardial infarction-mediated diaphragm muscle weakness in mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2016</b> , 310, R707-10	3.2	5
26	Diaphragm Abnormalities in Patients with End-Stage Heart Failure: NADPH Oxidase Upregulation and Protein Oxidation. <i>Frontiers in Physiology</i> , <b>2016</b> , 7, 686	4.6	5
25	Diaphragm weakness and proteomics (global and redox) modifications in heart failure with reduced ejection fraction in rats. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2020</b> , 139, 238-249	5.8	3
24	Meeting Synopsis: Advances in Skeletal Muscle Biology in Health and Disease (Gainesville, Florida, February 22nd to 24th 2012) - Day 1: "Cell Signaling Mechanisms Mediating Muscle Atrophy and Hypertrophy" and "muscle Force, Calcium Handling, and Stress Response". <i>Frontiers in Physiology</i> , <b>2012</b> , 3, 200	4.6	3
23	Sphingomyelinase and ceramide increase reactive species and depress maximal skeletal muscle force in vitro. <i>FASEB Journal</i> , <b>2010</b> , 24, 801.16	0.9	3
22	Mitochondrial basis for sex-differences in metabolism and exercise performance. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2018</b> , 314, R848-R849	3.2	2
21	Mitochondrial respiration and HO emission in saponin-permeabilized murine diaphragm fibers: optimization of fiber separation and comparison to limb muscle. <i>American Journal of Physiology - Cell Physiology</i> , <b>2019</b> , 317, C665-C673	5.4	2
20	Dietary nitrate supplementation increases diaphragm peak power in old mice. <i>Journal of Physiology</i> , <b>2020</b> , 598, 4357-4369	3.9	2
19	Osmolality Selectively Offsets the Impact of Hyperthermia on Mouse Skeletal Muscle. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1496	4.6	2
18	Sphingomyelinase promotes atrophy in C2C12 myotubes. <i>FASEB Journal</i> , <b>2011</b> , 25, lb602	0.9	1
17	The impact of hindlimb disuse on sepsis-induced myopathy in mice. <i>Physiological Reports</i> , <b>2021</b> , 9, e14972.6	2.6	1
16	RNA-sequencing reveals transcriptional signature of pathological remodeling in the diaphragm of rats after myocardial infarction. <i>Gene</i> , <b>2021</b> , 770, 145356	3.8	1
15	Nox4 Knockout Does Not Prevent Diaphragm Atrophy, Contractile Dysfunction, or Mitochondrial Maladaptation in the Early Phase Post-Myocardial Infarction in Mice. <i>Cellular Physiology and Biochemistry</i> , <b>2021</b> , 55, 489-504	3.9	0
14	Nitric oxide and skeletal muscle contractile function.. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2022</b> , 122-123, 54-54	5	0
13	Meeting synopsis: advances in skeletal muscle biology in health and disease (gainesville, Florida, february 22nd to 24th 2012) - day 2: "muscle diseases and regeneration" and "clinical/translational research". <i>Frontiers in Physiology</i> , <b>2012</b> , 3, 201	4.6	0

12	Kinetics of restoration of arteriolar tone after exercise. <i>Journal of Applied Physiology</i> , <b>2005</b> , 99, 775	3.7
11	The Effects of Aging on Microcirculatory Oxygen Delivery (QO <sub>2</sub> ) in Contracting Rat Spinotrapezius Muscle. <i>FASEB Journal</i> , <b>2008</b> , 22, 1141.2	0.9
10	Integrative Pathophysiology of a Novel Rodent Model of Postmenopausal Heart Failure with Preserved Ejection Fraction. <i>FASEB Journal</i> , <b>2019</b> , 33, 532.6	0.9
9	Mitochondrial Respiration and H <sub>2</sub> O <sub>2</sub> Emission in Saponin-permeabilized Murine Diaphragm Fibers: Optimization of Fiber Separation and Comparison to Limb Muscle. <i>FASEB Journal</i> , <b>2019</b> , 33, 543.7	0.9
8	Nitrate increases in skeletal muscle peak power do not involve changes in sarcomeric protein phosphorylation and require whole-body physiological pathways. <i>FASEB Journal</i> , <b>2019</b> , 33, lb651	0.9
7	Sphingomyelinase depresses force and calcium sensitivity of skeletal muscle contractile apparatus. <i>FASEB Journal</i> , <b>2011</b> , 25, 1059.19	0.9
6	Cachexia and loss of skeletal muscle mass in a murine model of pulmonary hypertension. <i>FASEB Journal</i> , <b>2012</b> , 26, 1144.5	0.9
5	Deficiency of p47 <sup>phox</sup> subunit of NADPH oxidase protects skeletal muscle from depression of force stimulated by sphingomyelinase. <i>FASEB Journal</i> , <b>2012</b> , 26, 1075.10	0.9
4	Heart failure increases neutral sphingomyelinase activity and ceramide content in rat diaphragm. <i>FASEB Journal</i> , <b>2012</b> , 26, 1075.13	0.9
3	Mechanical ventilation impairs sarcomeric protein function in rat diaphragm single fibers. <i>FASEB Journal</i> , <b>2013</b> , 27, 939.3	0.9
2	Effect of chronic heart failure on mitochondrial function and apoptotic susceptibility in rat skeletal muscle. <i>FASEB Journal</i> , <b>2013</b> , 27, 1209.19	0.9
1	Norepinephrine Accelerates Diaphragm Fatigue In Vitro. <i>FASEB Journal</i> , <b>2013</b> , 27, 942.7	0.9