Terence E Ryan

List of Publications by Year
in descending order

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71	2,408	186265	223800
papers	citations	28 h-index	46 g-index

74	74	74	2832
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Noninvasive evaluation of skeletal muscle mitochondrial capacity with near-infrared spectroscopy: correcting for blood volume changes. Journal of Applied Physiology, 2012, 113, 175-183.	2.5	165
2	Isocitrate-to-SENP1 signaling amplifies insulin secretion and rescues dysfunctional Î² cells. Journal of Clinical Investigation, 2015, 125, 3847-3860.	8.2	148
3	A cross-validation of near-infrared spectroscopy measurements of skeletal muscle oxidative capacity with phosphorus magnetic resonance spectroscopy. Journal of Applied Physiology, 2013, 115, 1757-1766.	2.5	133
4	17Î²-Estradiol Directly Lowers Mitochondrial Membrane Microviscosity and Improves Bioenergetic Function in Skeletal Muscle. Cell Metabolism, 2018, 27, 167-179.e7.	16.2	122
5	Assessment of in vivo skeletal muscle mitochondrial respiratory capacity in humans by nearâ€infrared spectroscopy: a comparison with in situ measurements. Journal of Physiology, 2014, 592, 3231-3241.	2.9	110
6	Pyruvate dehydrogenase complex and nicotinamide nucleotide transhydrogenase constitute an energy-consuming redox circuit. Biochemical Journal, 2015, 467, 271-280.	3.7	103
7	A Direct Comparison of Metabolic Responses to High-Fat Diet in C57BL/6J and C57BL/6NJ Mice. Diabetes, 2016, 65, 3249-3261.	0.6	102
8	Direct real-time quantification of mitochondrial oxidative phosphorylation efficiency in permeabilized skeletal muscle myofibers. American Journal of Physiology - Cell Physiology, 2016, 311, C239-C245.	4.6	66
9	Uremic metabolites impair skeletal muscle mitochondrial energetics through disruption of the electron transport system and matrix dehydrogenase activity. American Journal of Physiology - Cell Physiology, 2019, 317, C701-C713.	4.6	66
10	Mitochondrial PE potentiates respiratory enzymes to amplify skeletal muscle aerobic capacity. Science Advances, 2019, 5, eaax8352.	10.3	66
11	Electrically Induced Resistance Training in Individuals With Motor Complete Spinal Cord Injury. Archives of Physical Medicine and Rehabilitation, 2013, 94, 2166-2173.	0.9	64
12	Extensive skeletal muscle cell mitochondriopathy distinguishes critical limb ischemia patients from claudicants. JCI Insight, 2018, 3, .	5.0	64
13	Skeletal muscle metabolism in individuals with spinal cord injury. Journal of Applied Physiology, 2011, 111, 143-148.	2.5	58
14	Near-infrared assessments of skeletal muscle oxidative capacity in persons with spinal cord injury. European Journal of Applied Physiology, 2013, 113, 2275-2283.	2.5	55
15	BAG3 (Bcl-2â€“Associated Athanogene-3) Coding Variant in Mice Determines Susceptibility to Ischemic Limb Muscle Myopathy by Directing Autophagy. Circulation, 2017, 136, 281-296.	1.6	51
16	A comparison of exercise type and intensity on the noninvasive assessment of skeletal muscle mitochondrial function using near-infrared spectroscopy. Journal of Applied Physiology, 2013, 114, 230-237.	2.5	49
17	Impaired muscle mitochondrial energetics is associated with uremic metabolite accumulation in chronic kidney disease. JCI Insight, 2021, 6, .	5.0	47
18	Targeted Expression of Catalase to Mitochondria Protects Against Ischemic Myopathy in High-Fat Dietâ€“Fed Mice. Diabetes, 2016, 65, 2553-2568.	0.6	42

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19	Targeted overexpression of mitochondrial catalase protects against cancer chemotherapy-induced skeletal muscle dysfunction. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E293-E301.	3.5	41
20	Characterization and utilization of the flexor digitorum brevis for assessing skeletal muscle function. Skeletal Muscle, 2018, 8, 14.	4.2	41
21	Reduced skeletal muscle oxidative capacity and impaired training adaptations in heart failure. Physiological Reports, 2015, 3, e12353.	1.7	40
22	Subacute limb ischemia induces skeletal muscle injury in genetically susceptible mice independent of vascular density. Journal of Vascular Surgery, 2016, 64, 1101-1111.e2.	1.1	40
23	Diminished force production and mitochondrial respiratory deficits are strain-dependent myopathies of subacute limb ischemia. Journal of Vascular Surgery, 2017, 65, 1504-1514.e11.	1.1	36
24	Exercise-induced protection against reperfusion arrhythmia involves stabilization of mitochondrial energetics. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H1360-H1370.	3.2	34
25	Endurance neuromuscular electrical stimulation training improves skeletal muscle oxidative capacity in individuals with motorâ€complete spinal cord injury. Muscle and Nerve, 2017, 55, 669-675.	2.2	34
26	The validity and reliability of continuous-wave near-infrared spectroscopy for the assessment of leg blood volume during an orthostatic challenge. Atherosclerosis, 2016, 251, 234-239.	0.8	32
27	Strain-Dependent Variation in Acute Ischemic Muscle Injury. American Journal of Pathology, 2018, 188, 1246-1262.	3.8	30
28	Phospholipid methylation regulates muscle metabolic rate through Ca2+ transport efficiency. Nature Metabolism, 2019, 1, 876-885.	11.9	30
29	Ceramide-tamoxifen regimen targets bioenergetic elements in acute myelogenous leukemia. Journal of Lipid Research, 2016, 57, 1231-1242.	4.2	29
30	Chronic kidney disease exacerbates ischemic limb myopathy in mice via altered mitochondrial energetics. Scientific Reports, 2019, 9, 15547.	3.3	29
31	Skeletal muscle oxidative capacity in amyotrophic lateral sclerosis. Muscle and Nerve, 2014, 50, 767-774.	2.2	28
32	Muscle cell derived angiopoietin-1 contributes to both myogenesis and angiogenesis in the ischemic environment. Frontiers in Physiology, 2015, 6, 161.	2.8	28
33	Impact of 17Î²-estradiol on complex I kinetics and H2O2 production in liver and skeletal muscle mitochondria. Journal of Biological Chemistry, 2018, 293, 16889-16898.	3.4	28
34	Skeletal myopathy in CKD: a comparison of adenine-induced nephropathy and 5/6 nephrectomy models in mice. American Journal of Physiology - Renal Physiology, 2021, 321, F106-F119.	2.7	28
35	Case Report: Endurance Electrical Stimulation Training Improves Skeletal Muscle Oxidative Capacity in Chronic Spinal Cord Injury. Archives of Physical Medicine and Rehabilitation, 2013, 94, 2559-2561.	0.9	26
36	Mitochondrial Regulation of the Muscle Microenvironment in Critical Limb Ischemia. Frontiers in Physiology, 2015, 6, 336.	2.8	26

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37	Mitochondrial therapy improves limb perfusion and myopathy following hindlimb ischemia. Journal of Molecular and Cellular Cardiology, 2016, 97, 191-196.	1.9	26
38	Effects of Low-Volume, High-Intensity Whole-Body Calisthenics on Army ROTC Cadets. Military Medicine, 2015, 180, 492-498.	0.8	24
39	Skeletal Muscle Mitochondrial Dysfunction and Oxidative Stress in Peripheral Arterial Disease: A Unifying Mechanism and Therapeutic Target. Antioxidants, 2020, 9, 1304.	5.1	22
40	Protein Kinase A Governs Oxidative Phosphorylation Kinetics and Oxidant Emitting Potential at Complex I. Frontiers in Physiology, 2015, 6, 332.	2.8	21
41	PFKFB3-mediated glycolysis rescues myopathic outcomes in the ischemic limb. JCI Insight, 2020, 5, .	5.0	21
42	Greater Oxidative Capacity in Primary Myotubes from Endurance-trained Women. Medicine and Science in Sports and Exercise, 2017, 49, 2151-2157.	0.4	19
43	Tissue-Specific 1H-NMR Metabolomic Profiling in Mice with Adenine-Induced Chronic Kidney Disease. Metabolites, 2021, 11, 45.	2.9	19
44	Chronic aryl hydrocarbon receptor activity phenocopies smokingâ€induced skeletal muscle impairment. Journal of Cachexia, Sarcopenia and Muscle, 2022, 13, 589-604.	7.3	19
45	Indoxyl sulfate impairs angiogenesis via chronic aryl hydrocarbon receptor activation. American Journal of Physiology - Cell Physiology, 2021, 320, C240-C249.	4.6	18
46	Unique Metabolomic Profile of Skeletal Muscle in Chronic Limb Threatening Ischemia. Journal of Clinical Medicine, 2021, 10, 548.	2.4	16
47	Near-infrared spectroscopy detects age-related differences in skeletal muscle oxidative function: promising implications for geroscience. Physiological Reports, 2018, 6, e13588.	1.7	14
48	Mitochondrial Bioenergetic and Proteomic Phenotyping Reveals Organ-Specific Consequences of Chronic Kidney Disease in Mice. Cells, 2021, 10, 3282.	4.1	13
49	Mitochondrial respiration and H2O2emission in saponin-permeabilized murine diaphragm fibers: optimization of fiber separation and comparison to limb muscle. American Journal of Physiology - Cell Physiology, 2019, 317, C665-C673.	4.6	9
50	Induced in vivo knockdown of the Brca1 gene in skeletal muscle results in skeletal muscle weakness. Journal of Physiology, 2019, 597, 869-887.	2.9	9
51	Mitochondrial Permeability Transition Causes Mitochondrial Reactive Oxygen Species- and Caspase 3-Dependent Atrophy of Single Adult Mouse Skeletal Muscle Fibers. Cells, 2021, 10, 2586.	4.1	9
52	Deficiency of lncRNA SNHG12 impairs ischemic limb neovascularization by altering an endothelial cell cycle pathway. JCI Insight, 2022, 7, .	5.0	8
53	Interventionalâ€•and amputationâ€stage muscle proteomes in the chronically threatened ischemic limb. Clinical and Translational Medicine, 2022, 12, e658.	4.0	7
54	NMR Spectroscopy Identifies Chemicals in Cigarette Smoke Condensate That Impair Skeletal Muscle Mitochondrial Function. Toxics, 2022, 10, 140.	3.7	7

#	Article	IF	Citations
55	Commentaries on Viewpoint: Principles, insights, and potential pitfalls of the noninvasive determination of muscle oxidative capacity by near-infrared spectroscopy. Journal of Applied Physiology, 2018, 124, 249-255.	2.5	6
56	S100A8 and S100A9 are elevated in chronically threatened ischemic limb muscle and induce ischemic mitochondrial pathology in mice. JVS Vascular Science, 2022, 3, 232-245.	1.1	6
57	Nox4 Knockout Does Not Prevent Diaphragm Atrophy, Contractile Dysfunction, or Mitochondrial Maladaptation in the Early Phase Post-Myocardial Infarction in Mice. Cellular Physiology and Biochemistry, 2021, 55, 489-504.	1.6	4
58	Development of a murine iliac arteriovenous fistula model for examination of hemodialysis access-related limb pathophysiology. JVS Vascular Science, 2021, 2, 247-259.	1.1	4
59	Skeletal myopathy in a rat model of postmenopausal heart failure with preserved ejection fraction. Journal of Applied Physiology, 2022, 132, 106-125.	2.5	4
60	Racial differences in the limb skeletal muscle transcriptional programs of patients with critical limb ischemia. Vascular Medicine, 2021, 26, 247-258.	1.5	3
61	High-intensity exercise to promote accelerated improvements in cardiorespiratory fitness (HI-PACE): study protocol for a randomized controlled trial. Trials, 2019, 20, 484.	1.6	2
62	The impact of hindlimb disuse on sepsisâ€induced myopathy in mice. Physiological Reports, 2021, 9, e14979.	1.7	2
63	Chronic highâ€fat diet decreased detrusor mitochondrial respiration and increased nerveâ€mediated contractions. Neurourology and Urodynamics, 2019, 38, 1524-1532.	1.5	1
64	Exertional Heat Stroke Causes Longâ€Term Satellite Cell Dysfunction and Delayed Muscle Repair. FASEB Journal, 2021, 35, .	0.5	1
65	Assessing mitochondrial energetics in vivo with molecular detail: the best of both worlds using mitoRACE. Journal of Physiology, 2019, 597, 5319-5320.	2.9	0
66	Morphing mitochondria: understanding the development of the mitochondrial reticulum in skeletal muscle. Journal of Physiology, 2019, 597, 2619-2620.	2.9	0
67	Mitochondrial Permeability Transition Induces Skeletal Muscle Atrophy in Single Living Myofibers. FASEB Journal, 2021, 35, .	0.5	0
68	Acute Reversal of High Fat Dietâ€Induced Insulin Resistance is Accompanied by a Restoration of Redox Status in Skeletal Muscle. FASEB Journal, 2015, 29, 824.13.	0.5	0
69	Mitochondrial Respiration and H 2 O 2 Emission in Saponinâ€permeabilized Murine Diaphragm Fibers: Optimization of Fiber Separation and Comparison to Limb Muscle. FASEB Journal, 2019, 33, 543.7.	0.5	0
70	Renal Dysfunction Exacerbates Ischemic Muscle Injury in Mice Subjected to Hindlimb Ischemia. FASEB Journal, 2019, 33, 868.5.	0.5	0
71	Assessment of hindlimb myopathy and mitochondrial bioenergetics in a unique mouse model of accessâ€related hand dysfunction. FASEB Journal, 2022, 36, .	0.5	0