A Russell Tupling

List of Publications by Year
in descending order

72 papers	2,204 citations	236612 25 h-index	233125 45 g-index
72 all docs	72 docs citations	72 times ranked	3180 citing authors

#	Article	IF	Citations
1	Sarcolipin is a newly identified regulator of muscle-based thermogenesis in mammals. Nature Medicine, 2012, 18, 1575-1579.	15.2	441
2	The Regulation of SERCAâ€Type Pumps by Phospholamban and Sarcolipin. Annals of the New York Academy of Sciences, 2003, 986, 472-480.	1.8	140
3	ATP Consumption by Sarcoplasmic Reticulum Ca2+ Pumps Accounts for 40-50% of Resting Metabolic Rate in Mouse Fast and Slow Twitch Skeletal Muscle. PLoS ONE, 2013, 8, e68924.	1.1	91
4	In Vivo, Fatty Acid Translocase (CD36) Critically Regulates Skeletal Muscle Fuel Selection, Exercise Performance, and Training-induced Adaptation of Fatty Acid Oxidation. Journal of Biological Chemistry, 2012, 287, 23502-23516.	1.6	89
5	Sarcolipin Overexpression in Rat Slow Twitch Muscle Inhibits Sarcoplasmic Reticulum Ca2+ Uptake and Impairs Contractile Function. Journal of Biological Chemistry, 2002, 277, 44740-44746.	1.6	83
6	DJ-1 links muscle ROS production with metabolic reprogramming and systemic energy homeostasis in mice. Nature Communications, 2015, 6, 7415.	5.8	74
7	Co-Expression of SERCA Isoforms, Phospholamban and Sarcolipin in Human Skeletal Muscle Fibers. PLoS ONE, 2013, 8, e84304.	1.1	70
8	HSP70 Binds to the Fast-twitch Skeletal Muscle Sarco(endo)plasmic Reticulum Ca2+-ATPase (SERCA1a) and Prevents Thermal Inactivation. Journal of Biological Chemistry, 2004, 279, 52382-52389.	1.6	69
9	Ca ²⁺ dysregulation in Ryr1 ^{I4895T/wt} mice causes congenital myopathy with progressive formation of minicores, cores, and nemaline rods. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21813-21818.	3.3	67
10	The Sarcoplasmic Reticulum in Muscle Fatigue and Disease: Role of the Sarco(endo)plasmic Reticulum Ca²⁺-ATPase. Applied Physiology, Nutrition, and Metabolism, 2004, 29, 308-329.	1.7	65
11	Enhanced Ca²⁺ transport and muscle relaxation in skeletal muscle from sarcolipin-null mice. American Journal of Physiology - Cell Physiology, 2011, 301, C841-C849.	2.1	61
12	Ablation of sarcolipin decreases the energy requirements for Ca²⁺ transport by sarco(endo)plasmic reticulum Ca²⁺â€ATPases in resting skeletal muscle. FEBS Letters, 2013, 587, 1687-1692.	1.3	55
13	Muscle RANK is a key regulator of Ca²⁺ storage, SERCA activity, and function of fast-twitch skeletal muscles. American Journal of Physiology - Cell Physiology, 2016, 310, C663-C672.	2.1	51
14	Sarcolipin trumps Î²â€adrenergic receptor signaling as the favored mechanism for muscleâ€based dietâ€induced thermogenesis. FASEB Journal, 2013, 27, 3871-3878.	0.2	50
15	Potentiation in mouse lumbrical muscle without myosin light chain phosphorylation: Is resting calcium responsible?. Journal of General Physiology, 2013, 141, 297-308.	0.9	41
16	Quadriceps metabolism during constant workrate cycling exercise in chronic obstructive pulmonary disease. Journal of Applied Physiology, 2011, 110, 116-124.	1.2	39
17	Genetic deletion of muscle RANK or selective inhibition of RANKL is not as effective as full-length OPG-fc in mitigating muscular dystrophy. Acta Neuropathologica Communications, 2018, 6, 31.	2.4	39
18	Sarcolipin Provides a Novel Muscle-Based Mechanism for Adaptive Thermogenesis. Exercise and Sport Sciences Reviews, 2014, 42, 136-142.	1.6	35

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19	Effects of sarcolipin deletion on skeletal muscle adaptive responses to functional overload and unload. American Journal of Physiology - Cell Physiology, 2017, 313, C154-C161.	2.1	34
20	Effect of acute and chronic autophagy deficiency on skeletal muscle apoptotic signaling, morphology, and function. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 708-718.	1.9	32
21	Sarcolipin deletion in mdx mice impairs calcineurin signalling and worsens dystrophic pathology. Human Molecular Genetics, 2018, 27, 4094-4102.	1.4	32
22	Interaction between Hsp70 and the SR Ca²⁺pump: a potential mechanism for cytoprotection in heart and skeletal muscle. Applied Physiology, Nutrition and Metabolism, 2008, 33, 1023-1032.	0.9	30
23	Phospholamban overexpression in mice causes a centronuclear myopathy-like phenotype. DMM Disease Models and Mechanisms, 2015, 8, 999-1009.	1.2	29
24	The sarcoplasmic reticulum and SERCA: a nexus for muscular adaptive thermogenesis. Applied Physiology, Nutrition and Metabolism, 2020, 45, 1-10.	0.9	28
25	Initiating treadmill training in late middle age offers modest adaptations in Ca²⁺handling but enhances oxidative damage in senescent rat skeletal muscle. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 298, R1269-R1278.	0.9	27
26	Abnormalities of Calcium Handling Proteins in Skeletal Muscle Mirror Those of the Heart in Humans With Heart Failure: A Shared Mechanism?. Journal of Cardiac Failure, 2012, 18, 724-733.	0.7	27
27	The decay phase of Ca²⁺ transients in skeletal muscle: regulation and physiologyThis paper is one of a selection of papers published in this Special Issue, entitled 14th International Biochemistry of Exercise ConferenceÂâ€“ Muscles as Molecular and Metabolic Machines, and has undergone the Journalâ€™s usual peer review process.. Applied Physiology, Nutrition and Metabolism, 2009, 34, 373-376.	0.9	23
28	Prolonged moderate-intensity aerobic exercise does not alter apoptotic signaling and DNA fragmentation in human skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2010, 298, E534-E547.	1.8	22
29	Dietary docosahexaenoic acid supplementation reduces SERCA Ca2+ transport efficiency in rat skeletal muscle. Chemistry and Physics of Lipids, 2015, 187, 56-61.	1.5	22
30	Role of SERCA and sarcolipin in adaptive muscle remodeling. American Journal of Physiology - Cell Physiology, 2022, 322, C382-C394.	2.1	22
31	Agpat4/Lpaatî´ deficiency highlights the molecular heterogeneity of epididymal and perirenal white adipose depots. Journal of Lipid Research, 2017, 58, 2037-2050.	2.0	20
32	Functional, morphological, and apoptotic alterations in skeletal muscle of ARC deficient mice. Apoptosis: an International Journal on Programmed Cell Death, 2015, 20, 310-326.	2.2	19
33	Sarcolipin knockout mice fed a highâ€fat diet exhibit altered indices of adipose tissue inflammation and remodeling. Obesity, 2016, 24, 1499-1505.	1.5	18
34	Phospholamban deficiency does not alter skeletal muscle SERCA pumping efficiency or predispose mice to diet-induced obesity. American Journal of Physiology - Endocrinology and Metabolism, 2019, 316, E432-E442.	1.8	18
35	Sarcolipin deletion exacerbates soleus muscle atrophy and weakness in phospholamban overexpressing mice. PLoS ONE, 2017, 12, e0173708.	1.1	18
36	Cardiac calcium pump inactivation and nitrosylation in senescent rat myocardium are not attenuated by long-term treadmill training. Experimental Gerontology, 2011, 46, 803-810.	1.2	15

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37	Persistence of diet-induced obesity despite access to voluntary activity in mice lacking sarcolipin. Physiological Reports, 2015, 3, e12549.	0.7	14
38	Can inorganic phosphate explain sag during unfused tetanic contractions of skeletal muscle?. Physiological Reports, 2016, 4, e13043.	0.7	13
39	Lpaatî´/Agpat4 deficiency impairs maximal force contractility in soleus and alters fibre type in extensor digitorum longus muscle. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 700-711.	1.2	13
40	Neurogranin is expressed in mammalian skeletal muscle and inhibits calcineurin signaling and myoblast fusion. American Journal of Physiology - Cell Physiology, 2019, 317, C1025-C1033.	2.1	13
41	The role of estrogen receptor-Î± in estrogen-mediated regulation of basal and exercise-induced Hsp70 and Hsp27 expression in rat soleus. Canadian Journal of Physiology and Pharmacology, 2013, 91, 823-829.	0.7	12
42	Juxtaposition of the changes in intracellular calcium and force during staircase potentiation at 30 and 37Â°C. Journal of General Physiology, 2014, 144, 561-570.	0.9	12
43	A Single Session of Aerobic Exercise Mediates Plasticity-Related Phosphorylation in both the Rat Motor Cortex and Hippocampus. Neuroscience, 2019, 412, 160-174.	1.1	12
44	Effects of Consecutive Days of Exercise and Recovery on Muscle Mechanical Function. Medicine and Science in Sports and Exercise, 2008, 40, 316-325.	0.2	11
45	Elevated whole muscle phosphatidylcholine: phosphatidylethanolamine ratio coincides with reduced SERCA activity in murine overloaded plantaris muscles. Lipids in Health and Disease, 2018, 17, 47.	1.2	10
46	The Loss of ARNT/HIF1Î² in Male Pancreatic Î²-Cells Is Protective Against High-Fat Dietâ€“Induced Diabetes. Endocrinology, 2019, 160, 2825-2836.	1.4	10
47	Deletion of ARNT/HIF1Î² in pancreatic beta cells does not impair glucose homeostasis in mice, but is associated with defective glucose sensing ex vivo. Diabetologia, 2015, 58, 2832-2842.	2.9	9
48	The effects of buthionine sulfoximine treatment on diaphragm contractility and SERCA pump function in adult and middle aged rats. Physiological Reports, 2015, 3, e12547.	0.7	8
49	Sarcoplasmic Reticulum Phospholipid Fatty Acid Composition and Sarcolipin Content in Rat Skeletal Muscle. Journal of Membrane Biology, 2015, 248, 1089-1096.	1.0	8
50	Saturation of SERCA's lipid annulus may protect against its thermal inactivation. Biochemical and Biophysical Research Communications, 2017, 484, 456-460.	1.0	8
51	Excitationâ€“contraction coupling properties in women with work-related myalgia: a preliminary study. Canadian Journal of Physiology and Pharmacology, 2014, 92, 498-506.	0.7	7
52	Prevention of hyperphagia prevents ovariectomy-induced triacylglycerol accumulation in liver, but not plasma. Nutrition Research, 2015, 35, 1085-1094.	1.3	7
53	Prior Endurance Training Enhances Betaâ€Adrenergic Signaling in Epididymal Adipose from Mice Fed a Highâ€Fat Diet. Obesity, 2017, 25, 1699-1706.	1.5	6
54	Phospholamban and sarcolipin prevent thermal inactivation of sarco(endo)plasmic reticulum Ca2+-ATPases. Biochemical Journal, 2020, 477, 4281-4294.	1.7	6

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55	Protection of heart and skeletal muscle by heat shock proteins. Applied Physiology, Nutrition and Metabolism, 2008, 33, 1021-1022.	0.9	4
56	A pilot study to determine whether differences exist in histochemical properties between the trapezius and extensor carpi radialis brevis muscles in women with work-related myalgia. Canadian Journal of Physiology and Pharmacology, 2014, 92, 315-323.	0.7	4
57	Preliminary observations on high energy phosphates and metabolic pathway and transporter potentials in extensor carpi radialis brevis and trapezius muscles of women with work-related myalgia. Canadian Journal of Physiology and Pharmacology, 2014, 92, 953-960.	0.7	3
58	Contraction-induced enhancement of relaxation during high force contractions of mouse lumbrical muscle at 37Â°C. Journal of Experimental Biology, 2017, 220, 2870-2873.	0.8	3
59	Fattening the role of Ca2+ cycling in adaptive thermogenesis. Nature Medicine, 2017, 23, 1403-1404.	15.2	3
60	Excitation-Contraction Coupling. , 2009, , 1479-1483.		3
61	The Pleckstrin homology like domain family member, TDAG51, is temporally regulated during skeletal muscle regeneration. Biochemical and Biophysical Research Communications, 2018, 495, 499-505.	1.0	2
62	Caffeine attenuates contraction-induced diminutions of the intracellular calcium transient in mouse lumbrical muscle ex vivo. Canadian Journal of Physiology and Pharmacology, 2019, 97, 429-435.	0.7	2
63	Neuromuscular manifestations of work-related myalgia in women specific to extensor carpi radialis brevis. Canadian Journal of Physiology and Pharmacology, 2017, 95, 404-419.	0.7	1
64	Sarcolipin expression is not required for the mitochondrial enzymatic response to physical activity or diet. Journal of Applied Physiology, 2017, 122, 1276-1283.	1.2	1
65	The effect of ARC ablation on skeletal muscle morphology, function, and apoptotic signaling during aging. Experimental Gerontology, 2018, 101, 69-79.	1.2	1
66	Sarcolipin Ablation Increases Ca 2+ Pump Efficiency in Mouse Skeletal Muscle. FASEB Journal, 2008, 22, 1157.5.	0.2	1
67	Isoform-specific Roles of Prolyl Hydroxylases in the Regulation of Pancreatic Î²-Cell Function. Endocrinology, 2022, 163, .	1.4	1
68	Cellular properties of extensor carpi radialis brevis and trapezius muscles in healthy males and females. Canadian Journal of Physiology and Pharmacology, 2015, 93, 953-966.	0.7	0
69	Effects of acute isometric knee extension exercise at 40% MVC on muscle mechanical properties and Ca2+ pump function. FASEB Journal, 2008, 22, 961.10.	0.2	0
70	Improvement of Ca 2+ Transport and Muscle Relaxation in Skeletal Muscle From Sarcolipin Null Mice. FASEB Journal, 2008, 22, 962.34.	0.2	0
71	Characterization of sarco(endo)plasmic reticulum Ca 2+ â€ATPase (SERCA) expression and function in Zucker fa/fa obese rat skeletal muscle. FASEB Journal, 2010, 24, 1048.12.	0.2	0
72	Dietary nitrate does not alter cardiac function, calcium handling proteins, or SERCA activity in the left ventricle of healthy rats. Applied Physiology, Nutrition and Metabolism, 2020, 45, 1049-1053.	0.9	0