

Robyn M Murphy

List of Publications by Year in descending order

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110
papers

3,824
citations

109321

35
h-index

161849

54
g-index

117
all docs

117
docs citations

117
times ranked

4039
citing authors

#	ARTICLE	IF	CITATIONS
1	Skeletal muscle cell-specific differences in type 2 diabetes. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 256.	5.4	6
2	Age Related Changes in Muscle Mass and Force Generation in the Triple Transgenic (3xTgAD) Mouse Model of Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, 876816.	3.4	6
3	Time course and fibre type-dependent nature of calcium-handling protein responses to sprint interval exercise in human skeletal muscle. <i>Journal of Physiology</i> , 2022, 600, 2897-2917.	2.9	6
4	Autophagy is not involved in lipid accumulation and the development of insulin resistance in skeletal muscle. <i>Biochemical and Biophysical Research Communications</i> , 2021, 534, 533-539.	2.1	4
5	Expression of titin-linked putative mechanosensing proteins in skeletal muscle after power resistance exercise in resistance-trained men. <i>Journal of Applied Physiology</i> , 2021, 130, 545-561.	2.5	5
6	Human skeletal muscle fiber type-specific responses to sprint interval and moderate-intensity continuous exercise: acute and training-induced changes. <i>Journal of Applied Physiology</i> , 2021, 130, 1001-1014.	2.5	19
7	Nuclei isolation methods fail to accurately assess the subcellular localization and behaviour of proteins in skeletal muscle. <i>Acta Physiologica</i> , 2021, 233, e13730.	3.8	5
8	Muscle mitochondrial catalase expression prevents neuromuscular junction disruption, atrophy, and weakness in a mouse model of accelerated sarcopenia. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2021, 12, 1582-1596.	7.3	30
9	Effects of voluntary wheel running on mitochondrial content and dynamics in rat skeletal muscle. <i>Journal of Muscle Research and Cell Motility</i> , 2021, 42, 67-76.	2.0	7
10	Ryanodine receptor leak triggers fiber Ca ²⁺ redistribution to preserve force and elevate basal metabolism in skeletal muscle. <i>Science Advances</i> , 2021, 7, eabi7166.	10.3	20
11	The SarcoEndoplasmic Reticulum Calcium ATPase (SERCA) pump: a potential target for intervention in aging and skeletal muscle pathologies. <i>Skeletal Muscle</i> , 2021, 11, 25.	4.2	35
12	Impact of exercise training status on the fiber type-specific abundance of proteins regulating intramuscular lipid metabolism. <i>Journal of Applied Physiology</i> , 2020, 128, 379-389.	2.5	28
13	Metabolic communication during exercise. <i>Nature Metabolism</i> , 2020, 2, 805-816.	11.9	97
14	Controversies in TWEAK-Fn14 signaling in skeletal muscle atrophy and regeneration. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 3369-3381.	5.4	22
15	MicroRNA-99b-5p downregulates protein synthesis in human primary myotubes. <i>American Journal of Physiology - Cell Physiology</i> , 2020, 319, C432-C440.	4.6	11
16	Effects of intrauterine growth restriction on Ca ²⁺ -activated force and contractile protein expression in the mesenteric artery of 1-year-old Wistar-Kyoto rats. <i>Journal of Physiology and Biochemistry</i> , 2020, 76, 111-121.	3.0	1
17	Elevated MMP2 abundance and activity in mdx mice are alleviated by prenatal taurine supplementation. <i>American Journal of Physiology - Cell Physiology</i> , 2020, 318, C1083-C1091.	4.6	3
18	Distribution and activation of matrix metalloproteinase-2 in skeletal muscle fibers. <i>American Journal of Physiology - Cell Physiology</i> , 2019, 317, C613-C625.	4.6	16

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19	Assessing Membrane Micro-domain Physiology from the Inside-Out Using Confocal Microscopy. <i>Microscopy and Microanalysis</i> , 2019, 25, 1082-1083.	0.4	0
20	A fast, reliable and sample-sparing method to identify fibre types of single muscle fibres. <i>Scientific Reports</i> , 2019, 9, 6473.	3.3	25
21	Dysferlin-deficiency has greater impact on function of slow muscles, compared with fast, in aged BLA mice. <i>PLoS ONE</i> , 2019, 14, e0214908.	2.5	13
22	Elevated GLUT4 and glycogenin protein abundance correspond to increased glycogen content in the soleus muscle of <i>mdx</i> mice with no benefit associated with taurine supplementation. <i>Physiological Reports</i> , 2018, 6, e13596.	1.7	0
23	Increased <i>FXYD1</i> and <i>PGC-1α</i> mRNA after blood flow-restricted running is related to fibre type-specific AMPK signalling and oxidative stress in human muscle. <i>Acta Physiologica</i> , 2018, 223, e13045.	3.8	63
24	Effect of androgen deprivation therapy on the contractile properties of type I and type II skeletal muscle fibres in men with non-metastatic prostate cancer. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2018, 45, 146-154.	1.9	9
25	No evidence of direct association between GLUT4 and glycogen in human skeletal muscle. <i>Physiological Reports</i> , 2018, 6, e13917.	1.7	3
26	Exercise and GLUT4 in human subcutaneous adipose tissue. <i>Physiological Reports</i> , 2018, 6, e13918.	1.7	11
27	The effect of intrauterine growth restriction on Ca ²⁺ -activated force and contractile protein expression in the mesenteric artery of adult (6-month-old) male and female Wistar-Kyoto rats. <i>Physiological Reports</i> , 2018, 6, e13954.	1.7	6
28	Taurine and Methylprednisolone Administration at Close Proximity to the Onset of Muscle Degeneration Is Ineffective at Attenuating Force Loss in the Hind-Limb of 28 Days Mdx Mice. <i>Sports</i> , 2018, 6, 109.	1.7	4
29	Abundance of ClC-1 chloride channel in human skeletal muscle: fiber type specific differences and effect of training. <i>Journal of Applied Physiology</i> , 2018, 125, 470-478.	2.5	20
30	Mitochondrial content is preserved throughout disease progression in the <i>mdx</i> mouse model of Duchenne muscular dystrophy, regardless of taurine supplementation. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 314, C483-C491.	4.6	15
31	Junctional membrane Ca ²⁺ dynamics in human muscle fibers are altered by malignant hyperthermia causative RyR mutation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8215-8220.	7.1	31
32	Cold-water immersion after training sessions: effects on fiber type-specific adaptations in muscle K ⁺ transport proteins to sprint-interval training in men. <i>Journal of Applied Physiology</i> , 2018, 125, 429-444.	2.5	18
33	Physiological and biochemical characteristics of skeletal muscles in sedentary and active rats. <i>Journal of Muscle Research and Cell Motility</i> , 2018, 39, 1-16.	2.0	15
34	Preservation of skeletal muscle mitochondrial content in older adults: relationship between mitochondria, fibre type and high-intensity exercise training. <i>Journal of Physiology</i> , 2017, 595, 3345-3359.	2.9	60
35	Human skeletal muscle plasmalemma alters its structure to change its Ca ²⁺ -handling following heavy-load resistance exercise. <i>Nature Communications</i> , 2017, 8, 14266.	12.8	32
36	<i>S</i> -nitrosylation and <i>S</i> -glutathionylation of Cys134 on troponin I have opposing competitive actions on Ca ²⁺ sensitivity in rat fast-twitch muscle fibers. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 312, C316-C327.	4.6	39

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37	Intense interval training in healthy older adults increases skeletal muscle [³ H]ouabain-binding site content and elevates Na ⁺ ,K ⁺ -ATPase β 2 isoform abundance in Type II fibers. <i>Physiological Reports</i> , 2017, 5, e13219.	1.7	22
38	Characterization of muscle ankyrin repeat proteins in human skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 313, C327-C339.	4.6	24
39	Preaged remodeling of myofibrillar cytoarchitecture in skeletal muscle expressing R349P mutant desmin. <i>Neurobiology of Aging</i> , 2017, 58, 77-87.	3.1	13
40	Changes in contractile and metabolic parameters of skeletal muscle as rats age from 3 to 12 months. <i>Journal of Muscle Research and Cell Motility</i> , 2017, 38, 405-420.	2.0	14
41	Reply to "Letter to the editor: Comments on Wette et al. (2017): "Characterization of muscle ankyrin repeat proteins in human skeletal muscle" American Journal of Physiology - Cell Physiology, 2017, 313, C471-C472.	4.6	0
42	Superior mitochondrial adaptations in human skeletal muscle after interval compared to continuous single-leg cycling matched for total work. <i>Journal of Physiology</i> , 2017, 595, 2955-2968.	2.9	148
43	Ischaemic exercise enhances mitochondrial and ion transport gene adaptations in trained human skeletal muscle: Role of cellular redox state, AMPK and CaMKII signalling. <i>Japanese Journal of Physical Fitness and Sports Medicine</i> , 2017, 66, 75-75.	0.0	0
44	Benefits of Pre-natal Taurine Supplementation in Preventing the Onset of Acute Damage in the Mdx Mouse. <i>PLOS Currents</i> , 2017, 9, .	1.4	12
45	Insights into the role and regulation of TCTP in skeletal muscle. <i>Oncotarget</i> , 2017, 8, 18754-18772.	1.8	21
46	Store-Operated Ca ²⁺ Entry (SOCE) and Purinergic Receptor-Mediated Ca ²⁺ Homeostasis in Murine bv2 Microglia Cells: Early Cellular Responses to ATP-Mediated Microglia Activation. <i>Frontiers in Molecular Neuroscience</i> , 2016, 9, 111.	2.9	31
47	Perilipin 5 is dispensable for normal substrate metabolism and in the adaptation of skeletal muscle to exercise training. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 311, E128-E137.	3.5	15
48	When phosphorylated at Thr ¹⁴⁸ , the β -subunit of AMP-activated kinase does not associate with glycogen in skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2016, 311, C35-C42.	4.6	6
49	A quantitative description of tubular system Ca ²⁺ handling in fast and slow twitch muscle fibres. <i>Journal of Physiology</i> , 2016, 594, 2795-2810.	2.9	32
50	The effect of taurine and β -alanine supplementation on taurine transporter protein and fatigue resistance in skeletal muscle from mdx mice. <i>Amino Acids</i> , 2016, 48, 2635-2645.	2.7	25
51	Dissociation between short-term unloading and resistance training effects on skeletal muscle Na ⁺ ,K ⁺ -ATPase, muscle function, and fatigue in humans. <i>Journal of Applied Physiology</i> , 2016, 121, 1074-1086.	2.5	28
52	Cell specific differences in the protein abundances of GAPDH and Na ⁺ ,K ⁺ -ATPase in skeletal muscle from aged individuals. <i>Experimental Gerontology</i> , 2016, 75, 8-15.	2.8	22
53	Ca ²⁺ leakage out of the sarcoplasmic reticulum is increased in type I skeletal muscle fibres in aged humans. <i>Journal of Physiology</i> , 2016, 594, 469-481.	2.9	38
54	Maternal Nutrient Restriction Alters Ca ²⁺ Handling Properties and Contractile Function of Isolated Left Ventricle Bundles in Male But Not Female Juvenile Rats. <i>PLoS ONE</i> , 2015, 10, e0138388.	2.5	19

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55	Single-fiber expression and fiber-specific adaptability to short-term intense exercise training of Na ⁺ -K ⁺ -ATPase α - and β -isoforms in human skeletal muscle. <i>Journal of Applied Physiology</i> , 2015, 118, 699-706.	2.5	22
56	Altered Ca ²⁺ Kinetics Associated with α -Actinin-3 Deficiency May Explain Positive Selection for ACTN3 Null Allele in Human Evolution. <i>PLoS Genetics</i> , 2015, 11, e1004862.	3.5	39
57	Clarity for 5 α -AMP-activated protein kinase α dissecting out human skeletal muscle responses to exercise. <i>Journal of Physiology</i> , 2015, 593, 1769-1770.	2.9	1
58	Rat skeletal muscle glycogen degradation pathways reveal differential association of glycogen-related proteins with glycogen granules. <i>Journal of Physiology and Biochemistry</i> , 2015, 71, 267-280.	3.0	8
59	Glucose uptake during contraction in isolated skeletal muscles from neuronal nitric oxide synthase α knockout mice. <i>Journal of Applied Physiology</i> , 2015, 118, 1113-1121.	2.5	14
60	Contractile properties and sarcoplasmic reticulum calcium content in type I and type II skeletal muscle fibres in active aged humans. <i>Journal of Physiology</i> , 2015, 593, 2499-2514.	2.9	79
61	Subcellular fractionation reveals HSP72 does not associate with SERCA in human skeletal muscle following damaging eccentric and concentric exercise. <i>Journal of Applied Physiology</i> , 2014, 116, 1503-1511.	2.5	9
62	Skeletal muscle atrophy in sedentary Zucker obese rats is not caused by calpain-mediated muscle damage or lipid peroxidation induced by oxidative stress. <i>Journal of Negative Results in BioMedicine</i> , 2014, 13, 19.	1.4	15
63	Acute effects of taurine on sarcoplasmic reticulum Ca ²⁺ accumulation and contractility in human type I and type II skeletal muscle fibers. <i>Journal of Applied Physiology</i> , 2014, 117, 797-805.	2.5	36
64	Small heat shock proteins translocate to the cytoskeleton in human skeletal muscle following eccentric exercise independently of phosphorylation. <i>Journal of Applied Physiology</i> , 2014, 116, 1463-1472.	2.5	29
65	Sarcoplasmic reticulum Ca ²⁺ uptake and leak properties, and SERCA isoform expression, in type I and type II fibres of human skeletal muscle. <i>Journal of Physiology</i> , 2014, 592, 1381-1395.	2.9	48
66	Comparative analysis of caveolins in mouse and tammar wallaby: Role in regulating mammary gland function. <i>Gene</i> , 2014, 552, 51-58.	2.2	0
67	Ca ²⁺ -dependent proteolysis of junctophilin α 1 and junctophilin α 2 in skeletal and cardiac muscle. <i>Journal of Physiology</i> , 2013, 591, 719-729.	2.9	103
68	Isolation of Sarcolemmal Plasma Membranes by Mechanically Skinning Rat Skeletal Muscle Fibers for Phospholipid Analysis. <i>Lipids</i> , 2013, 48, 421-430.	1.7	8
69	Endogenous and maximal sarcoplasmic reticulum calcium content and calsequestrin expression in type I and type II human skeletal muscle fibres. <i>Journal of Physiology</i> , 2013, 591, 6053-6068.	2.9	53
70	Fibre type-specific change in FXD1 phosphorylation during acute intense exercise in humans. <i>Journal of Physiology</i> , 2013, 591, 1523-1533.	2.9	34
71	Important considerations for protein analyses using antibody based techniques: downsizing Western blotting upsizes outcomes. <i>Journal of Physiology</i> , 2013, 591, 5823-5831.	2.9	119
72	Changes in plasma membrane Ca-ATPase and stromal interacting molecule 1 expression levels for Ca ²⁺ signaling in dystrophic mdx mouse muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 303, C567-C576.	4.6	26

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73	Absolute amounts and diffusibility of HSP72, HSP25, and β -crystallin in fast- and slow-twitch skeletal muscle fibers of rat. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C228-C239.	4.6	27
74	Effects of carnosine on contractile apparatus Ca^{2+} sensitivity and sarcoplasmic reticulum Ca^{2+} release in human skeletal muscle fibers. <i>Journal of Applied Physiology</i> , 2012, 112, 728-736.	2.5	102
75	Single fiber analyses of glycogen-related proteins reveal their differential association with glycogen in rat skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 303, C1146-C1155.	4.6	27
76	Glutathionylation of troponin I (fast) increases contractile apparatus Ca^{2+} sensitivity in fast-twitch muscle fibres of rats and humans. <i>Journal of Physiology</i> , 2012, 590, 1443-1463.	2.9	90
77	Influences of temperature, oxidative stress, and phosphorylation on binding of heat shock proteins in skeletal muscle fibers. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 303, C654-C665.	4.6	24
78	Enhanced technique to measure proteins in single segments of human skeletal muscle fibers: fiber-type dependence of AMPK- α 1 and - β 1. <i>Journal of Applied Physiology</i> , 2011, 110, 820-825.	2.5	71
79	Store-operated calcium entry remains fully functional in aged mouse skeletal muscle despite a decline in STIM1 protein expression. <i>Aging Cell</i> , 2011, 10, 675-685.	6.7	23
80	Activation of skeletal muscle calpain-3 by eccentric exercise in humans does not result in its translocation to the nucleus or cytosol. <i>Journal of Applied Physiology</i> , 2011, 111, 1448-1458.	2.5	24
81	On the localization of CLC-1 in skeletal muscle fibers. <i>Journal of General Physiology</i> , 2011, 137, 327-329.	1.9	11
82	Quantification of calsequestrin 2 (CSQ2) in sheep cardiac muscle and Ca^{2+} -binding protein changes in CSQ2 knockout mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H595-H604.	3.2	38
83	Toward the roles of store-operated Ca^{2+} entry in skeletal muscle. <i>Pflügers Archiv European Journal of Physiology</i> , 2010, 460, 813-823.	2.8	60
84	Ultra-rapid activation and deactivation of store-operated Ca^{2+} entry in skeletal muscle. <i>Cell Calcium</i> , 2010, 47, 458-467.	2.4	68
85	Calpains, skeletal muscle function and exercise. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2010, 37, 385-391.	1.9	42
86	Upregulation of store-operated Ca^{2+} entry in dystrophic <i>mdx</i> mouse muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 299, C42-C50.	4.6	80
87	Calpain-3 is activated following eccentric exercise. <i>Journal of Applied Physiology</i> , 2009, 106, 2068-2068.	2.5	6
88	Endogenous Calpain-3 Activation Is Primarily Governed by Small Increases in Resting Cytoplasmic $[\text{Ca}^{2+}]$ and Is Not Dependent on Stretch. <i>Journal of Biological Chemistry</i> , 2009, 284, 7811-7819.	3.4	46
89	Taurine supplementation increases skeletal muscle force production and protects muscle function during and after high-frequency in vitro stimulation. <i>Journal of Applied Physiology</i> , 2009, 107, 144-154.	2.5	65
90	Involvement of calpains in Ca^{2+} -induced disruption of excitation-contraction coupling in mammalian skeletal muscle fibers. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 296, C1115-C1122.	4.6	37

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91	Plasma membrane removal in rat skeletal muscle fibers reveals caveolin-3 hot-spots at the necks of transverse tubules. <i>Experimental Cell Research</i> , 2009, 315, 1015-1028.	2.6	53
92	Calsequestrin content and SERCA determine normal and maximal Ca ²⁺ storage levels in sarcoplasmic reticulum of fast- and slow-twitch fibres of rat. <i>Journal of Physiology</i> , 2009, 587, 443-460.	2.9	130
93	Are genuine changes in protein expression being overlooked? Reassessing Western blotting. <i>Analytical Biochemistry</i> , 2009, 386, 270-275.	2.4	71
94	Chloride conductance in the transverse tubular system of rat skeletal muscle fibres: importance in excitation-contraction coupling and fatigue. <i>Journal of Physiology</i> , 2008, 586, 875-887.	2.9	53
95	Hydroxyl radical and glutathione interactions alter calcium sensitivity and maximum force of the contractile apparatus in rat skeletal muscle fibres. <i>Journal of Physiology</i> , 2008, 586, 2203-2216.	2.9	75
96	Calpain-3 is autolyzed and hence activated in human skeletal muscle 24 h following a single bout of eccentric exercise. <i>Journal of Applied Physiology</i> , 2007, 103, 926-931.	2.5	65
97	CT, Creatine Transporter. , 2007, , 1-15.		0
98	Ca ²⁺ activation of diffusible and bound pools of γ -calpain in rat skeletal muscle. <i>Journal of Physiology</i> , 2006, 576, 595-612.	2.9	103
99	γ -Calpain and calpain-3 are not autolyzed with exhaustive exercise in humans. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 290, C116-C122.	4.6	51
100	Disruption of excitation-contraction coupling and titin by endogenous Ca ²⁺ -activated proteases in toad muscle fibres. <i>Journal of Physiology</i> , 2005, 564, 775-790.	2.9	64
101	Effect of carbohydrate ingestion on exercise-induced alterations in metabolic gene expression. <i>Journal of Applied Physiology</i> , 2005, 99, 1359-1363.	2.5	79
102	Effect of creatine on contractile force and sensitivity in mechanically skinned single fibers from rat skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 287, C1589-C1595.	4.6	24
103	Intense exercise up-regulates Na ⁺ ,K ⁺ -ATPase isoform mRNA, but not protein expression in human skeletal muscle. <i>Journal of Physiology</i> , 2004, 556, 507-519.	2.9	58
104	Creatine transporters: A reappraisal. <i>Molecular and Cellular Biochemistry</i> , 2004, 256, 407-424.	3.1	65
105	Creatine supplementation increases glycogen storage but not GLUT-4 expression in human skeletal muscle. <i>Clinical Science</i> , 2004, 106, 99-106.	4.3	86
106	Title is missing!. <i>Molecular and Cellular Biochemistry</i> , 2003, 244, 151-157.	3.1	14
107	Factors Influencing Creatine Loading into Human Skeletal Muscle. <i>Exercise and Sport Sciences Reviews</i> , 2003, 31, 154-158.	3.0	36
108	Human skeletal muscle creatine transporter mRNA and protein expression in healthy, young males and females. , 2003, , 151-157.		0

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109	Human skeletal muscle creatine transporter mRNA and protein expression in healthy, young males and females. <i>Molecular and Cellular Biochemistry</i> , 2003, 244, 151-7.	3.1	5
110	Creatine and the creatine transporter: a review. , 2001, 224, 169-181.		151