James G Ryall

List of Publications by Year
in descending order

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61 papers	4,437 citations	126901 33 h-index	149686 56 g-index
62 all docs	62 docs citations	62 times ranked	6606 citing authors

#	Article	IF	Citations
1	Mechanisms of chemotherapyâ€induced muscle wasting in mice with cancer cachexia. JCSM Rapid Communications, 2022, 5, 102-116.	1.6	3
2	Metabolic remodeling of dystrophic skeletal muscle reveals biological roles for dystrophin and utrophin in adaptation and plasticity. Molecular Metabolism, 2021, 45, 101157.	6.5	22
3	Comprehensive characterization of single-cell full-length isoforms in human and mouse with long-read sequencing. Genome Biology, 2021, 22, 310.	8.8	83
4	HSP70 drives myoblast fusion during C2C12 myogenic differentiation. Biology Open, 2020, 9, .	1.2	3
5	A Metabolic Roadmap for Somatic Stem Cell Fate. Cell Metabolism, 2020, 31, 1052-1067.	16.2	66
6	The Microenvironment Is a Critical Regulator of Muscle Stem Cell Activation and Proliferation. Frontiers in Cell and Developmental Biology, 2019, 7, 254.	3.7	23
7	Inhibition of bioenergetics provides novel insights into recruitment of <scp>PINK</scp>1â€dependent neuronal mitophagy. Journal of Neurochemistry, 2019, 149, 269-283.	3.9	10
8	Oxygen Regulates Human Pluripotent Stem Cell Metabolic Flux. Stem Cells International, 2019, 2019, 1-17.	2.5	20
9	Expression and localization of heat-shock proteins during skeletal muscle cell proliferation and differentiation and the impact of heat stress. Cell Stress and Chaperones, 2019, 24, 749-761.	2.9	15
10	Editorial. Current Opinion in Clinical Nutrition and Metabolic Care, 2019, 22, 243-249.	2.5	0
11	The molecular signature of muscle stem cells is driven by nutrient availability and innate cell metabolism. Current Opinion in Clinical Nutrition and Metabolic Care, 2018, 21, 240-245.	2.5	13
12	Therapeutic potential of heat shock protein induction for muscular dystrophy and other muscle wasting conditions. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20160528.	4.0	37
13	Simultaneous Measurement of Mitochondrial and Glycolytic Activity in Quiescent Muscle Stem Cells. Methods in Molecular Biology, 2017, 1556, 245-253.	0.9	16
14	Specific Sirt1 Activator-mediated Improvement in Glucose Homeostasis Requires Sirt1-Independent Activation of AMPK. EBioMedicine, 2017, 18, 128-138.	6.1	30
15	Functional screening in human cardiac organoids reveals a metabolic mechanism for cardiomyocyte cell cycle arrest. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8372-E8381.	7.1	361
16	Measuring Mitochondrial Substrate Utilization in Skeletal Muscle Stem Cells. Methods in Molecular Biology, 2017, 1668, 61-73.	0.9	3
17	DNA Methylation in Skeletal Muscle Stem Cell Specification, Proliferation, and Differentiation. Stem Cells International, 2016, 2016, 1-9.	2.5	55
18	Epigenetic Regulation Shapes the Stem Cells State. Stem Cells International, 2016, 2016, 1-2.	2.5	1

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19	Integrated expression analysis of muscle hypertrophy identifies Asb2 as a negative regulator of muscle mass. JCI Insight, 2016, 1, .	5.0	38
20	Autocrine Secretion of Progastrin Promotes the Survival and Self-Renewal of Colon Cancer Stemâ€"like Cells. Cancer Research, 2016, 76, 3618-3628.	0.9	41
21	The A 2b adenosine receptor antagonist PSB-603 promotes oxidative phosphorylation and ROS production in colorectal cancer cells via adenosine receptor-independent mechanism. Cancer Letters, 2016, 383, 135-143.	7.2	23
22	Metabolic Reprogramming of Stem Cell Epigenetics. Cell Stem Cell, 2015, 17, 651-662.	11.1	252
23	Silent information regulator 1 modulator resveratrol increases brain lactate production and inhibits mitochondrial metabolism, whereas SRT1720 increases oxidative metabolism. Journal of Neuroscience Research, 2015, 93, 1147-1156.	2.9	19
24	The NAD+-Dependent SIRT1 Deacetylase Translates a Metabolic Switch into Regulatory Epigenetics in Skeletal Muscle Stem Cells. Cell Stem Cell, 2015, 16, 171-183.	11.1	439
25	Functional Î²-Adrenoceptors Are Important for Early Muscle Regeneration in Mice through Effects on Myoblast Proliferation and Differentiation. PLoS ONE, 2014, 9, e101379.	2.5	13
26	A metabolic link to skeletal muscle wasting and regeneration. Frontiers in Physiology, 2014, 5, 32.	2.8	86
27	A novel AMPK-dependent FoxO3A-SIRT3 intramitochondrial complex sensing glucose levels. Cellular and Molecular Life Sciences, 2013, 70, 2015-2029.	5.4	85
28	The methyltransferase SMYD3 mediates the recruitment of transcriptional cofactors at the myostatin and c-Met genes and regulates skeletal muscle atrophy. Genes and Development, 2013, 27, 1299-1312.	5.9	74
29	Metabolic reprogramming as a novel regulator of skeletal muscle development and regeneration. FEBS Journal, 2013, 280, 4004-4013.	4.7	69
30	The role of sirtuins in the regulation of metabolic homeostasis in skeletal muscle. Current Opinion in Clinical Nutrition and Metabolic Care, 2012, 15, 561-566.	2.5	20
31	Acute antibody-directed myostatin inhibition attenuates disuse muscle atrophy and weakness in mice. Journal of Applied Physiology, 2011, 110, 1065-1072.	2.5	45
32	Ageing prolongs inflammatory marker expression in regenerating rat skeletal muscles after injury. Journal of Inflammation, 2011, 8, 41.	3.4	27
33	Polycomb EZH2 controls self-renewal and safeguards the transcriptional identity of skeletal muscle stem cells. Genes and Development, 2011, 25, 789-794.	5.9	188
34	Role of Î²-Adrenergic Signalling in Skeletal Muscle Wasting: Implications for Sarcopenia. , 2011, , 449-471.		0
35	Novel role for Î²â€adrenergic signalling in skeletal muscle growth, development and regeneration. Clinical and Experimental Pharmacology and Physiology, 2010, 37, 397-401.	1.9	32
36	Antibody-Directed Myostatin Inhibition Improves Diaphragm Pathology in Young but not Adult Dystrophic mdx Mice. American Journal of Pathology, 2010, 176, 2425-2434.	3.8	57

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37	Expression profiling of skeletal muscle following acute and chronic Î²2-adrenergic stimulation: implications for hypertrophy, metabolism and circadian rhythm. BMC Genomics, 2009, 10, 448.	2.8	55
38	Examination of â€˜lipotoxicityâ€™ in skeletal muscle of highâ€fat fed and ob/ob mice. Journal of Physiology, 2009, 587, 1593-1605.	2.9	95
39	The role of Î²-adrenoceptor signaling in skeletal muscle: therapeutic implications for muscle wasting disorders. Current Opinion in Clinical Nutrition and Metabolic Care, 2009, 12, 601-606.	2.5	19
40	Cellular and molecular mechanisms underlying age-related skeletal muscle wasting and weakness. Biogerontology, 2008, 9, 213-228.	3.9	329
41	Insulinâ€like growth factorâ€I analogue protects muscles of dystrophic mdx mice from contractionâ€mediated damage. Experimental Physiology, 2008, 93, 1190-1198.	2.0	40
42	AMPKâ€independent pathways regulate skeletal muscle fatty acid oxidation. Journal of Physiology, 2008, 586, 5819-5831.	2.9	121
43	ANABOLIC AGENTS FOR IMPROVING MUSCLE REGENERATION AND FUNCTION AFTER INJURY. Clinical and Experimental Pharmacology and Physiology, 2008, 35, 852-858.	1.9	29
44	The potential and the pitfalls of Î²-adrenoceptor agonists for the management of skeletal muscle wasting. , 2008, 120, 219-232.		84
45	Role of Î²-Adrenoceptor Signaling in Skeletal Muscle: Implications for Muscle Wasting and Disease. Physiological Reviews, 2008, 88, 729-767.	28.8	344
46	Chronic Î²₂-adrenoceptor stimulation impairs cardiac relaxation via reduced SR Ca²⁺-ATPase protein and activity. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H2587-H2595.	3.2	23
47	The Orphan Nuclear Receptor, NOR-1, a Target of Î²-Adrenergic Signaling, Regulates Gene Expression that Controls Oxidative Metabolism in Skeletal Muscle. Endocrinology, 2008, 149, 2853-2865.	2.8	132
48	Intramuscular Î²₂-agonist administration enhances early regeneration and functional repair in rat skeletal muscle after myotoxic injury. Journal of Applied Physiology, 2008, 105, 165-172.	2.5	35
49	Attenuation of Age-Related Muscle Wasting and Weakness in Rats After Formoterol Treatment: Therapeutic Implications for Sarcopenia. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2007, 62, 813-823.	3.6	41
50	Low dose formoterol administration improves muscle function in dystrophic mdx mice without increasing fatigue. Neuromuscular Disorders, 2007, 17, 47-55.	0.6	59
51	Modulation of Insulin-like Growth Factor (IGF)-I and IGF-Binding Protein Interactions Enhances Skeletal Muscle Regeneration and Ameliorates the Dystrophic Pathology in mdx Mice. American Journal of Pathology, 2007, 171, 1180-1188.	3.8	52
52	Therapeutic approaches for muscle wasting disorders. , 2007, 113, 461-487.		130
53	Systemic administration of Î² 2 -adrenoceptor agonists, formoterol and salmeterol, elicit skeletal muscle hypertrophy in rats at micromolar doses. British Journal of Pharmacology, 2006, 147, 587-595.	5.4	93
54	The Orphan Nuclear Receptor, NOR-1, Is a Target of Î²-Adrenergic Signaling in Skeletal Muscle. Endocrinology, 2006, 147, 5217-5227.	2.8	109

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55	Systemic administration of IGF-I enhances oxidative status and reduces contraction-induced injury in skeletal muscles of mdx dystrophic mice. American Journal of Physiology - Endocrinology and Metabolism, 2006, 291, E499-E505.	3.5	60
56	Chronic Î²-agonist administration affects cardiac function of adult but not old rats, independent of Î²-adrenoceptor density. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H344-H349.	3.2	26
57	Î²2-Agonist administration increases sarcoplasmic reticulum Ca2+-ATPase activity in aged rat skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2005, 288, E526-E533.	3.5	42
58	Î²2-Agonist administration reverses muscle wasting and improves muscle function in aged rats. Journal of Physiology, 2004, 555, 175-188.	2.9	91
59	Î²2-Adrenoceptor agonist fenoterol enhances functional repair of regenerating rat skeletal muscle after injury. Journal of Applied Physiology, 2004, 96, 1385-1392.	2.5	80
60	Î²2-Agonist fenoterol has greater effects on contractile function of rat skeletal muscles than clenbuterol. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2002, 283, R1386-R1394.	1.8	60
61	Altered energy metabolism and metabolic gene expression associated with increased metastatic capacity identified in MDA-MB-231 cell line variants. Journal of Cancer Metastasis and Treatment, 0, 2018, .	0.8	3