

# James G Ryall

## List of Publications by Citations

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60  
papers

3,454  
citations

31  
h-index

58  
g-index

62  
ext. papers

3,969  
ext. citations

6.9  
avg, IF

5.37  
L-index

#	Paper	IF	Citations
60	The NAD(+)-dependent SIRT1 deacetylase translates a metabolic switch into regulatory epigenetics in skeletal muscle stem cells. <i>Cell Stem Cell</i> , <b>2015</b> , 16, 171-83	18	328
59	Role of beta-adrenoceptor signaling in skeletal muscle: implications for muscle wasting and disease. <i>Physiological Reviews</i> , <b>2008</b> , 88, 729-67	47.9	285
58	Cellular and molecular mechanisms underlying age-related skeletal muscle wasting and weakness. <i>Biogerontology</i> , <b>2008</b> , 9, 213-28	4.5	267
57	Functional screening in human cardiac organoids reveals a metabolic mechanism for cardiomyocyte cell cycle arrest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E8372-E8381	11.5	239
56	Metabolic Reprogramming of Stem Cell Epigenetics. <i>Cell Stem Cell</i> , <b>2015</b> , 17, 651-662	18	174
55	Polycomb EZH2 controls self-renewal and safeguards the transcriptional identity of skeletal muscle stem cells. <i>Genes and Development</i> , <b>2011</b> , 25, 789-94	12.6	165
54	Therapeutic approaches for muscle wasting disorders <b>2007</b> , 113, 461-87		117
53	The orphan nuclear receptor, NOR-1, a target of beta-adrenergic signaling, regulates gene expression that controls oxidative metabolism in skeletal muscle. <i>Endocrinology</i> , <b>2008</b> , 149, 2853-65	4.8	112
52	AMPK-independent pathways regulate skeletal muscle fatty acid oxidation. <i>Journal of Physiology</i> , <b>2008</b> , 586, 5819-31	3.9	107
51	The orphan nuclear receptor, NOR-1, is a target of beta-adrenergic signaling in skeletal muscle. <i>Endocrinology</i> , <b>2006</b> , 147, 5217-27	4.8	101
50	Examination of TipotoxicityTin skeletal muscle of high-fat fed and ob/ob mice. <i>Journal of Physiology</i> , <b>2009</b> , 587, 1593-605	3.9	84
49	Beta 2-agonist administration reverses muscle wasting and improves muscle function in aged rats. <i>Journal of Physiology</i> , <b>2004</b> , 555, 175-88	3.9	82
48	Systemic administration of beta2-adrenoceptor agonists, formoterol and salmeterol, elicit skeletal muscle hypertrophy in rats at micromolar doses. <i>British Journal of Pharmacology</i> , <b>2006</b> , 147, 587-95	8.6	81
47	Beta2-adrenoceptor agonist fenoterol enhances functional repair of regenerating rat skeletal muscle after injury. <i>Journal of Applied Physiology</i> , <b>2004</b> , 96, 1385-92	3.7	74
46	A metabolic link to skeletal muscle wasting and regeneration. <i>Frontiers in Physiology</i> , <b>2014</b> , 5, 32	4.6	65
45	A novel AMPK-dependent FoxO3A-SIRT3 intramitochondrial complex sensing glucose levels. <i>Cellular and Molecular Life Sciences</i> , <b>2013</b> , 70, 2015-29	10.3	64
44	The potential and the pitfalls of beta-adrenoceptor agonists for the management of skeletal muscle wasting <b>2008</b> , 120, 219-32		64

43	The methyltransferase SMYD3 mediates the recruitment of transcriptional cofactors at the myostatin and c-Met genes and regulates skeletal muscle atrophy. <i>Genes and Development</i> , <b>2013</b> , 27, 1299-312	12.6	56
42	Beta 2-agonist fenoterol has greater effects on contractile function of rat skeletal muscles than clenbuterol. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2002</b> , 283, R1386-94	3.2	56
41	Systemic administration of IGF-I enhances oxidative status and reduces contraction-induced injury in skeletal muscles of mdx dystrophic mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2006</b> , 291, E499-505	6	53
40	Low dose formoterol administration improves muscle function in dystrophic mdx mice without increasing fatigue. <i>Neuromuscular Disorders</i> , <b>2007</b> , 17, 47-55	2.9	53
39	Expression profiling of skeletal muscle following acute and chronic beta2-adrenergic stimulation: implications for hypertrophy, metabolism and circadian rhythm. <i>BMC Genomics</i> , <b>2009</b> , 10, 448	4.5	50
38	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. <i>American Journal of Pathology</i> , <b>2007</b> , 171, 1180-8	5.8	49
37	Metabolic reprogramming as a novel regulator of skeletal muscle development and regeneration. <i>FEBS Journal</i> , <b>2013</b> , 280, 4004-13	5.7	45
36	Antibody-directed myostatin inhibition improves diaphragm pathology in young but not adult dystrophic mdx mice. <i>American Journal of Pathology</i> , <b>2010</b> , 176, 2425-34	5.8	45
35	DNA Methylation in Skeletal Muscle Stem Cell Specification, Proliferation, and Differentiation. <i>Stem Cells International</i> , <b>2016</b> , 2016, 5725927	5	43
34	Attenuation of age-related muscle wasting and weakness in rats after formoterol treatment: therapeutic implications for sarcopenia. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2007</b> , 62, 813-23	6.4	40
33	Beta2-agonist administration increases sarcoplasmic reticulum Ca <sup>2+</sup> -ATPase activity in aged rat skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2005</b> , 288, E526-33	6	40
32	Acute antibody-directed myostatin inhibition attenuates disuse muscle atrophy and weakness in mice. <i>Journal of Applied Physiology</i> , <b>2011</b> , 110, 1065-72	3.7	39
31	Insulin-like growth factor-I analogue protects muscles of dystrophic mdx mice from contraction-mediated damage. <i>Experimental Physiology</i> , <b>2008</b> , 93, 1190-8	2.4	35
30	Intramuscular beta2-agonist administration enhances early regeneration and functional repair in rat skeletal muscle after myotoxic injury. <i>Journal of Applied Physiology</i> , <b>2008</b> , 105, 165-72	3.7	31
29	Integrated expression analysis of muscle hypertrophy identifies as a negative regulator of muscle mass. <i>JCI Insight</i> , <b>2016</b> , 1,	9.9	29
28	Autocrine Secretion of Progastrin Promotes the Survival and Self-Renewal of Colon Cancer Stem-like Cells. <i>Cancer Research</i> , <b>2016</b> , 76, 3618-28	10.1	29
27	Novel role for β-adrenergic signalling in skeletal muscle growth, development and regeneration. <i>Clinical and Experimental Pharmacology and Physiology</i> , <b>2010</b> , 37, 397-401	3	27
26	Anabolic agents for improving muscle regeneration and function after injury. <i>Clinical and Experimental Pharmacology and Physiology</i> , <b>2008</b> , 35, 852-8	3	25

25	Chronic beta-agonist administration affects cardiac function of adult but not old rats, independent of beta-adrenoceptor density. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2005</b> , 289, H344-9	5.2	24
24	Therapeutic potential of heat shock protein induction for muscular dystrophy and other muscle wasting conditions. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2018</b> , 373,	5.8	24
23	Ageing prolongs inflammatory marker expression in regenerating rat skeletal muscles after injury. <i>Journal of Inflammation</i> , <b>2011</b> , 8, 41	6.7	22
22	Specific Sirt1 Activator-mediated Improvement in Glucose Homeostasis Requires Sirt1-Independent Activation of AMPK. <i>EBioMedicine</i> , <b>2017</b> , 18, 128-138	8.8	21
21	Chronic beta2-adrenoceptor stimulation impairs cardiac relaxation via reduced SR Ca <sup>2+</sup> -ATPase protein and activity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2008</b> , 294, H2587-95	5.2	21
20	A Metabolic Roadmap for Somatic Stem Cell Fate. <i>Cell Metabolism</i> , <b>2020</b> , 31, 1052-1067	24.6	21
19	The role of sirtuins in the regulation of metabolic homeostasis in skeletal muscle. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2012</b> , 15, 561-6	3.8	19
18	The A adenosine receptor antagonist PSB-603 promotes oxidative phosphorylation and ROS production in colorectal cancer cells via adenosine receptor-independent mechanism. <i>Cancer Letters</i> , <b>2016</b> , 383, 135-143	9.9	19
17	Silent information regulator 1 modulator resveratrol increases brain lactate production and inhibits mitochondrial metabolism, whereas SRT1720 increases oxidative metabolism. <i>Journal of Neuroscience Research</i> , <b>2015</b> , 93, 1147-56	4.4	17
16	Simultaneous Measurement of Mitochondrial and Glycolytic Activity in Quiescent Muscle Stem Cells. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1556, 245-253	1.4	14
15	The role of beta-adrenoceptor signaling in skeletal muscle: therapeutic implications for muscle wasting disorders. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2009</b> , 12, 601-6	3.8	14
14	Oxygen Regulates Human Pluripotent Stem Cell Metabolic Flux. <i>Stem Cells International</i> , <b>2019</b> , 2019, 8195614	5	13
13	Comprehensive characterization of single-cell full-length isoforms in human and mouse with long-read sequencing. <i>Genome Biology</i> , <b>2021</b> , 22, 310	18.3	10
12	Comprehensive characterization of single cell full-length isoforms in human and mouse with long-read sequencing		10
11	The Microenvironment Is a Critical Regulator of Muscle Stem Cell Activation and Proliferation. <i>Frontiers in Cell and Developmental Biology</i> , <b>2019</b> , 7, 254	5.7	9
10	The molecular signature of muscle stem cells is driven by nutrient availability and innate cell metabolism. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2018</b> , 21, 240-245	3.8	8
9	Functional $\beta$ -adrenoceptors are important for early muscle regeneration in mice through effects on myoblast proliferation and differentiation. <i>PLoS ONE</i> , <b>2014</b> , 9, e101379	3.7	8
8	Metabolic remodeling of dystrophic skeletal muscle reveals biological roles for dystrophin and utrophin in adaptation and plasticity. <i>Molecular Metabolism</i> , <b>2021</b> , 45, 101157	8.8	8

7	Inhibition of bioenergetics provides novel insights into recruitment of PINK1-dependent neuronal mitophagy. <i>Journal of Neurochemistry</i> , <b>2019</b> , 149, 269-283	6	6
6	Expression and localization of heat-shock proteins during skeletal muscle cell proliferation and differentiation and the impact of heat stress. <i>Cell Stress and Chaperones</i> , <b>2019</b> , 24, 749-761	4	6
5	Altered energy metabolism and metabolic gene expression associated with increased metastatic capacity identified in MDA-MB-231 cell line variants. <i>Journal of Cancer Metastasis and Treatment</i> , 2018,	3.8	2
4	Measuring Mitochondrial Substrate Utilization in Skeletal Muscle Stem Cells. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1668, 61-73	1.4	2
3	HSP70 drives myoblast fusion during C2C12 myogenic differentiation. <i>Biology Open</i> , <b>2020</b> , 9,	2.2	1
2	Epigenetic Regulation Shapes the Stem Cells State. <i>Stem Cells International</i> , <b>2016</b> , 2016, 8143407	5	1
1	Role of $\beta$ Adrenergic Signalling in Skeletal Muscle Wasting: Implications for Sarcopenia <b>2011</b> , 449-471		