Gordon S Lynch

List of Publications by Citations

183 papers	7,237 citations	49 h-index	76 g-index
194 ext. papers	8,078 ext. citations	5.3 avg, IF	5.91 L-index

#	Paper	IF	Citations
183	Role of beta-adrenoceptor signaling in skeletal muscle: implications for muscle wasting and disease. *Physiological Reviews*, **2008**, 88, 729-67	47.9	285
182	Cellular and molecular mechanisms underlying age-related skeletal muscle wasting and weakness. *Biogerontology*, **2008**, 9, 213-28	4.5	267
181	Towards developing standard operating procedures for pre-clinical testing in the mdx mouse model of Duchenne muscular dystrophy. *Neurobiology of Disease*, **2008**, 31, 1-19	7.5	245
180	Force and power output of fast and slow skeletal muscles from mdx mice 6-28 months old. *Journal of Physiology*, **2001**, 535, 591-600	3.9	243
179	Hsp72 preserves muscle function and slows progression of severe muscular dystrophy. *Nature*, **2012**, 484, 394-8	50.4	196
178	Impaired skeletal muscle development and function in male, but not female, genomic androgen receptor knockout mice. *FASEB Journal*, **2008**, 22, 2676-89	0.9	140
177	Elevated expression of activins promotes muscle wasting and cachexia. *FASEB Journal*, **2014**, 28, 1711-23	0.9	130
176	Whole body deletion of AMP-activated protein kinase {beta}2 reduces muscle AMPK activity and exercise capacity. *Journal of Biological Chemistry*, **2010**, 285, 37198-209	5.4	129
175	Therapeutic approaches for muscle wasting disorders **2007**, 113, 461-87		117
174	The orphan nuclear receptor, NOR-1, a target of beta-adrenergic signaling, regulates gene expression that controls oxidative metabolism in skeletal muscle. *Endocrinology*, **2008**, 149, 2853-65	4.8	112
173	AMPK-independent pathways regulate skeletal muscle fatty acid oxidation. *Journal of Physiology*, **2008**, 586, 5819-31	3.9	107
172	Deletion of skeletal muscle SOCS3 prevents insulin resistance in obesity. *Diabetes*, **2013**, 62, 56-64	0.9	106
171	Adipose triacylglycerol lipase deletion alters whole body energy metabolism and impairs exercise performance in mice. *American Journal of Physiology - Endocrinology and Metabolism*, **2009**, 297, E505-13	6	104
170	Contraction-induced injury to single permeabilized muscle fibers from mdx, transgenic mdx, and control mice. *American Journal of Physiology - Cell Physiology*, **2000**, 279, C1290-4	5.4	104
169	Expression of the AMP-activated protein kinase beta1 and beta2 subunits in skeletal muscle. *FEBS Letters*, **1999**, 460, 343-8	3.8	103
168	Antibody-directed myostatin inhibition in 21-mo-old mice reveals novel roles for myostatin signaling in skeletal muscle structure and function. *FASEB Journal*, **2010**, 24, 4433-42	0.9	101
167	The orphan nuclear receptor, NOR-1, is a target of beta-adrenergic signaling in skeletal muscle. *Endocrinology*, **2006**, 147, 5217-27	4.8	101

166	Skeletal muscle glucose uptake during contraction is regulated by nitric oxide and ROS independently of AMPK. *American Journal of Physiology - Endocrinology and Metabolism*, **2010**, 298, E577-85	6	100
165	Improved contractile function of the mdx dystrophic mouse diaphragm muscle after insulin-like growth factor-I administration. *American Journal of Pathology*, **2002**, 161, 2263-72	5.8	97
164	Continuous testosterone administration prevents skeletal muscle atrophy and enhances resistance to fatigue in orchidectomized male mice. *American Journal of Physiology - Endocrinology and Metabolism*, **2006**, 291, E506-16	6	96
163	Examination of 'lipotoxicity' in skeletal muscle of high-fat fed and ob/ob mice. *Journal of Physiology* , **2009**, 587, 1593-605	3.9	84
162	Targeting of Fn14 Prevents Cancer-Induced Cachexia and Prolongs Survival. *Cell*, **2015**, 162, 1365-78	56.2	82
161	Beta 2-agonist administration reverses muscle wasting and improves muscle function in aged rats. *Journal of Physiology*, **2004**, 555, 175-88	3.9	82
160	Systemic administration of beta2-adrenoceptor agonists, formoterol and salmeterol, elicit skeletal muscle hypertrophy in rats at micromolar doses. *British Journal of Pharmacology*, **2006**, 147, 587-95	8.6	81
159	Importance of functional and metabolic impairments in the characterization of the C-26 murine model of cancer cachexia. *DMM Disease Models and Mechanisms*, **2012**, 5, 533-45	4.1	80
158	In vivo and in vitro correction of the mdx dystrophin gene nonsense mutation by short-fragment homologous replacement. *Human Gene Therapy*, **2001**, 12, 629-42	4.8	79
157	Disease-Induced Skeletal Muscle Atrophy and Fatigue. *Medicine and Science in Sports and Exercise*, **2016**, 48, 2307-2319	1.2	79
156	Optimizing plasmid-based gene transfer for investigating skeletal muscle structure and function. *Molecular Therapy*, **2006**, 13, 795-803	11.7	78
155	Antibody-directed myostatin inhibition enhances muscle mass and function in tumor-bearing mice. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2011**, 301, R716-26	3.2	77
154	Beta2-adrenoceptor agonist fenoterol enhances functional repair of regenerating rat skeletal muscle after injury. *Journal of Applied Physiology*, **2004**, 96, 1385-92	3.7	74
153	IGF-I treatment improves the functional properties of fast- and slow-twitch skeletal muscles from dystrophic mice. *Neuromuscular Disorders*, **2001**, 11, 260-8	2.9	73
152	Duchenne muscular dystrophy: focus on pharmaceutical and nutritional interventions. *International Journal of Biochemistry and Cell Biology*, **2007**, 39, 469-77	5.6	68
151	The calcineurin signal transduction pathway is essential for successful muscle regeneration in mdx dystrophic mice. *Acta Neuropathologica*, **2004**, 107, 299-310	14.3	68
150	The potential and the pitfalls of beta-adrenoceptor agonists for the management of skeletal muscle wasting **2008**, 120, 219-32		64
149	Quantitative measurement of resting skeletal muscle [Ca2+]i following acute and long-term downhill running exercise in mice. *Cell Calcium*, **1997**, 22, 373-83	4	63

148	Adaptations in rat skeletal muscle following long-term resistance exercise training. *European Journal of Applied Physiology*, **1998**, 77, 372-8	3.4	62
147	Comparative evaluation of IGF-I gene transfer and IGF-I protein administration for enhancing skeletal muscle regeneration after injury. *Gene Therapy*, **2006**, 13, 1657-64	4	62
146	Effects of beta 2-agonist administration and exercise on contractile activation of skeletal muscle fibers. *Journal of Applied Physiology*, **1996**, 81, 1610-8	3.7	61
145	Glycine administration attenuates skeletal muscle wasting in a mouse model of cancer cachexia. *Clinical Nutrition*, **2014**, 33, 448-58	5.9	59
144	Deleterious effects of chronic clenbuterol treatment on endurance and sprint exercise performance in rats. *Clinical Science*, **2000**, 98, 339-347	6.5	58
143	Notexin causes greater myotoxic damage and slower functional repair in mouse skeletal muscles than bupivacaine. *Muscle and Nerve*, **2006**, 34, 577-85	3.4	57
142	Beta 2-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, R1386-94	3.2	56
141	Activated calcineurin ameliorates contraction-induced injury to skeletal muscles of mdx dystrophic mice. *Journal of Physiology*, **2006**, 575, 645-56	3.9	54
140	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, E499-505	6	53
139	Low dose formoterol administration improves muscle function in dystrophic mdx mice without increasing fatigue. *Neuromuscular Disorders*, **2007**, 17, 47-55	2.9	53
138	Hyperbaric oxygen modulates antioxidant enzyme activity in rat skeletal muscles. *European Journal of Applied Physiology*, **2001**, 86, 24-7	3.4	52
137	Cellular mechanisms underlying temporal changes in skeletal muscle protein synthesis and breakdown during chronic {beta}-adrenoceptor stimulation in mice. *Journal of Physiology*, **2010**, 588, 4811-23	3.9	50
136	Expression profiling of skeletal muscle following acute and chronic beta2-adrenergic stimulation: implications for hypertrophy, metabolism and circadian rhythm. *BMC Genomics*, **2009**, 10, 448	4.5	50
135	Making fast-twitch dystrophic muscles bigger protects them from contraction injury and attenuates the dystrophic pathology. *American Journal of Pathology*, **2010**, 176, 29-33	5.8	49
134	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, 1180-8	5.8	49
133	Interleukin-15 administration improves diaphragm muscle pathology and function in dystrophic mdx mice. *American Journal of Pathology*, **2005**, 166, 1131-41	5.8	49
132	Leucine as a treatment for muscle wasting: a critical review. *Clinical Nutrition*, **2014**, 33, 937-45	5.9	47
131	Evaluating an internet weight loss program for diabetes prevention. *Health Promotion International* , **2005**, 20, 221-8	3	46

130	Smad7 gene delivery prevents muscle wasting associated with cancer cachexia in mice. *Science Translational Medicine*, **2016**, 8, 348ra98	17.5	45
129	Antibody-directed myostatin inhibition improves diaphragm pathology in young but not adult dystrophic mdx mice. *American Journal of Pathology*, **2010**, 176, 2425-34	5.8	45
128	Administration of insulin-like growth factor-I improves fatigue resistance of skeletal muscles from dystrophic mdx mice. *Muscle and Nerve*, **2004**, 30, 295-304	3.4	44
127	Contraction-induced injury to single muscle fibers: velocity of stretch does not influence the force deficit. *American Journal of Physiology - Cell Physiology*, **1998**, 275, C1548-54	5.4	42
126	Cytoskeletal tropomyosin Tm5NM1 is required for normal excitation-contraction coupling in skeletal muscle. *Molecular Biology of the Cell*, **2009**, 20, 400-9	3.5	41
125	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, 813-23	6.4	40
124	Beta2-agonist administration increases sarcoplasmic reticulum Ca2+-ATPase activity in aged rat skeletal muscle. *American Journal of Physiology - Endocrinology and Metabolism*, **2005**, 288, E526-33	6	40
123	Acute antibody-directed myostatin inhibition attenuates disuse muscle atrophy and weakness in mice. *Journal of Applied Physiology*, **2011**, 110, 1065-72	3.7	39
122	Excitation-contraction coupling and sarcoplasmic reticulum function in mechanically skinned fibres from fast skeletal muscles of aged mice. *Journal of Physiology*, **2002**, 543, 169-76	3.9	38
121	Muscle-specific overexpression of IGF-I improves E-C coupling in skeletal muscle fibers from dystrophic mdx mice. *American Journal of Physiology - Cell Physiology*, **2008**, 294, C161-8	5.4	37
120	Separation of fast from slow anabolism by site-specific PEGylation of insulin-like growth factor I (IGF-I). *Journal of Biological Chemistry*, **2011**, 286, 19501-10	5.4	36
119	Leukemia inhibitory factor ameliorates muscle fiber degeneration in the mdx mouse. *Muscle and Nerve*, **2000**, 23, 1700-5	3.4	36
118	Insulin-like growth factor-I analogue protects muscles of dystrophic mdx mice from contraction-mediated damage. *Experimental Physiology*, **2008**, 93, 1190-8	2.4	35
117	Dysfunctional muscle and liver glycogen metabolism in mdx dystrophic mice. *PLoS ONE*, **2014**, 9, e91514	3.7	34
116	Downstream mechanisms of nitric oxide-mediated skeletal muscle glucose uptake during contraction. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2010**, 299, R1656-65	3.2	34
115	Update on emerging drugs for cancer cachexia. *Expert Opinion on Emerging Drugs*, **2009**, 14, 619-32	3.7	33
114	Stimulation of calcineurin Aalpha activity attenuates muscle pathophysiology in mdx dystrophic mice. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2008**, 294, R983-92	3.2	31
113	Intramuscular beta2-agonist administration enhances early regeneration and functional repair in rat skeletal muscle after myotoxic injury. *Journal of Applied Physiology*, **2008**, 105, 165-72	3.7	31

112	Therapies for improving muscle function in neuromuscular disorders. *Exercise and Sport Sciences Reviews*, **2001**, 29, 141-8	6.7	31
111	Current pharmacotherapies for sarcopenia. *Expert Opinion on Pharmacotherapy*, **2019**, 20, 1645-1657	4	30
110	beta-Adrenoceptor signaling in regenerating skeletal muscle after beta-agonist administration. *American Journal of Physiology - Endocrinology and Metabolism*, **2007**, 293, E932-40	6	30
109	L-Citrulline Protects Skeletal Muscle Cells from Cachectic Stimuli through an iNOS-Dependent Mechanism. *PLoS ONE*, **2015**, 10, e0141572	3.7	29
108	Emerging drugs for sarcopenia: age-related muscle wasting. *Expert Opinion on Emerging Drugs*, **2004**, 9, 345-61	3.7	28
107	Force and power output of diaphragm muscle strips from mdx and control mice after clenbuterol treatment. *Neuromuscular Disorders*, **2001**, 11, 192-6	2.9	28
106	Novel role for β-adrenergic signalling in skeletal muscle growth, development and regeneration. *Clinical and Experimental Pharmacology and Physiology*, **2010**, 37, 397-401	3	27
105	Heritable pathologic cardiac hypertrophy in adulthood is preceded by neonatal cardiac growth restriction. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2009**, 296, R672-80	3.2	27
104	Update on emerging drugs for sarcopenia - age-related muscle wasting. *Expert Opinion on Emerging Drugs*, **2008**, 13, 655-73	3.7	27
103	Deleterious effects of chronic clenbuterol treatment on endurance and sprint exercise performance in rats. *Clinical Science*, **2000**, 98, 339	6.5	27
102	Hydrogen peroxide modulates Ca2+-activation of single permeabilized fibres from fast- and slow-twitch skeletal muscles of rats. *Journal of Muscle Research and Cell Motility*, **2000**, 21, 747-52	3.5	27
101	Arginine protects muscle cells from wasting in vitro in an mTORC1-dependent and NO-independent manner. *Amino Acids*, **2014**, 46, 2643-52	3.5	26
100	Length-tension relationships are altered in regenerating muscles of the rat after bupivacaine injection. *Journal of Applied Physiology*, **2005**, 98, 1998-2003	3.7	26
99	Power Output of Fast and Slow Skeletal Muscles of MDX (Dystrophic) and Control Mice After Clenbuterol Treatment. *Experimental Physiology*, **2000**, 85, 295-299	2.4	26
98	Redox modulation of maximum force production of fast-and slow-twitch skeletal muscles of rats and mice. *Journal of Applied Physiology*, **2001**, 90, 832-8	3.7	26
97	Inhibition of the renin-angiotensin system improves physiological outcomes in mice with mild or severe cancer cachexia. *International Journal of Cancer*, **2013**, 133, 1234-46	7.5	25
96	Anabolic agents for improving muscle regeneration and function after injury. *Clinical and Experimental Pharmacology and Physiology*, **2008**, 35, 852-8	3	25
95	Tackling Australia's future health problems: developing strategies to combat sarcopenia--age-related muscle wasting and weakness. *Internal Medicine Journal*, **2004**, 34, 294-6	1.6	25

94	Analysis of Ca2+ and Sr2+ activation characteristics in skinned muscle fibre preparations with different proportions of myofibrillar isoforms. *Journal of Muscle Research and Cell Motility*, **1995**, 16, 65-78	3.5	25
93	Chronic beta-agonist administration affects cardiac function of adult but not old rats, independent of beta-adrenoceptor density. *American Journal of Physiology - Heart and Circulatory Physiology*, **2005**, 289, H344-9	5.2	24
92	Year-long clenbuterol treatment of mice increases mass, but not specific force or normalized power, of skeletal muscles. *Clinical and Experimental Pharmacology and Physiology*, **1999**, 26, 117-20	3	24
91	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,	5.8	24
90	Calcineurin-A alpha activation enhances the structure and function of regenerating muscles after myotoxic injury. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2007**, 293, R686-94	3.2	23
89	Glycine metabolism in skeletal muscle: implications for metabolic homeostasis. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2017**, 20, 237-242	3.8	22
88	Phosphoproteomics reveals conserved exercise-stimulated signaling and AMPK regulation of store-operated calcium entry. *EMBO Journal*, **2019**, 38, e102578	13	22
87	Ageing prolongs inflammatory marker expression in regenerating rat skeletal muscles after injury. *Journal of Inflammation*, **2011**, 8, 41	6.7	22
86	Force deficits and breakage rates after single lengthening contractions of single fast fibers from unconditioned and conditioned muscles of young and old rats. *American Journal of Physiology - Cell Physiology*, **2008**, 295, C249-56	5.4	22
85	Differential calcineurin signalling activity and regeneration efficacy in diaphragm and limb muscles of dystrophic mdx mice. *Neuromuscular Disorders*, **2006**, 16, 337-46	2.9	22
84	Depolarization-induced contraction and SR function in mechanically skinned muscle fibers from dystrophic mdx mice. *American Journal of Physiology - Cell Physiology*, **2003**, 285, C522-8	5.4	22
83	Chronic beta2-adrenoceptor stimulation impairs cardiac relaxation via reduced SR Ca2+-ATPase protein and activity. *American Journal of Physiology - Heart and Circulatory Physiology*, **2008**, 294, H2587-95	5.2	21
82	Changes in contractile activation characteristics of rat fast and slow skeletal muscle fibres during regeneration. *Journal of Physiology*, **2004**, 558, 549-60	3.9	21
81	A Metabolic Roadmap for Somatic Stem Cell Fate. *Cell Metabolism*, **2020**, 31, 1052-1067	24.6	21
80	Tranilast administration reduces fibrosis and improves fatigue resistance in muscles of mdx dystrophic mice. *Fibrogenesis and Tissue Repair*, **2014**, 7, 1		20
79	Effects of leukemia inhibitory factor on rat skeletal muscles are modulated by clenbuterol. *Muscle and Nerve*, **2002**, 25, 194-201	3.4	20
78	Hyperbaric oxygen improves contractile function of regenerating rat skeletal muscle after myotoxic injury. *Journal of Applied Physiology*, **2000**, 89, 1477-82	3.7	20
77	Endurance exercise effects on the contractile properties of single, skinned skeletal muscle fibres of young rats. *Pflugers Archiv European Journal of Physiology*, **1991**, 418, 161-7	4.6	20

76	BGP-15 Improves Aspects of the Dystrophic Pathology in mdx and dko Mice with Differing Efficacies in Heart and Skeletal Muscle. *American Journal of Pathology*, **2016**, 186, 3246-3260	5.8	19
75	Glycine restores the anabolic response to leucine in a mouse model of acute inflammation. *American Journal of Physiology - Endocrinology and Metabolism*, **2016**, 310, E970-81	6	19
74	Alterations in Notch signalling in skeletal muscles from mdx and dko dystrophic mice and patients with Duchenne muscular dystrophy. *Experimental Physiology*, **2014**, 99, 675-87	2.4	19
73	Plasmid-based gene transfer in mouse skeletal muscle by electroporation. *Methods in Molecular Biology*, **2008**, 433, 115-25	1.4	19
72	Therapeutic potential of PEGylated insulin-like growth factor I for skeletal muscle disease evaluated in two murine models of muscular dystrophy. *Growth Hormone and IGF Research*, **2012**, 22, 69-75	2	17
71	Defective lysosome reformation during autophagy causes skeletal muscle disease. *Journal of Clinical Investigation*, **2021**, 131,	15.9	17
70	Glycine supplementation during calorie restriction accelerates fat loss and protects against further muscle loss in obese mice. *Clinical Nutrition*, **2016**, 35, 1118-26	5.9	16
69	Specific force of the rat extraocular muscles, levator and superior rectus, measured in situ. *Journal of Neurophysiology*, **2001**, 85, 1027-32	3.2	16
68	Using AAV vectors expressing the β2-adrenoceptor or associated Gβγ proteins to modulate skeletal muscle mass and muscle fibre size. *Scientific Reports*, **2016**, 6, 23042	4.9	16
67	Citrulline does not prevent skeletal muscle wasting or weakness in limb-casted mice. *Journal of Nutrition*, **2015**, 145, 900-6	4.1	15
66	Glucose-6-phosphate dehydrogenase contributes to the regulation of glucose uptake in skeletal muscle. *Molecular Metabolism*, **2016**, 5, 1083-1091	8.8	15
65	Glucose uptake during contraction in isolated skeletal muscles from neuronal nitric oxide synthase μknockout mice. *Journal of Applied Physiology*, **2015**, 118, 1113-21	3.7	14
64	The role of beta-adrenoceptor signaling in skeletal muscle: therapeutic implications for muscle wasting disorders. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2009**, 12, 601-6	3.8	14
63	Hydrogen peroxide increases depolarization-induced contraction of mechanically skinned slow twitch fibres from rat skeletal muscles. *Journal of Physiology*, **2002**, 539, 883-91	3.9	14
62	Muscle-specific deletion of SOCS3 increases the early inflammatory response but does not affect regeneration after myotoxic injury. *Skeletal Muscle*, **2016**, 6, 36	5.1	14
61	Mas Receptor Activation Slows Tumor Growth and Attenuates Muscle Wasting in Cancer. *Cancer Research*, **2019**, 79, 706-719	10.1	14
60	Scriptaid enhances skeletal muscle insulin action and cardiac function in obese mice. *Diabetes, Obesity and Metabolism*, **2017**, 19, 936-943	6.7	13
59	G-CSF does not influence C2C12 myogenesis despite receptor expression in healthy and dystrophic skeletal muscle. *Frontiers in Physiology*, **2014**, 5, 170	4.6	13

58	Emerging drugs for treating skeletal muscle injury and promoting muscle repair. *Expert Opinion on Emerging Drugs*, **2011**, 16, 163-82	3.7	13
57	Therapeutic clenbuterol treatment does not alter Ca2+ sensitivity of permeabilized fast muscle fibres from exercise trained or untrained horses. *Journal of Muscle Research and Cell Motility*, **2003**, 24, 471-6	3.5	13
56	Contractile activation characteristics of single permeabilized fibres from levator palpebrae superioris, orbicularis oculi and vastus lateralis muscles from humans. *Journal of Physiology*, **1999**, 519 Pt 2, 615-22	3.9	13
55	Physiological characterization of a mouse model of cachexia in colorectal liver metastases. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2013**, 304, R854-64	3.2	12
54	Disruption of muscle renin-angiotensin system in AT1a-/- mice enhances muscle function despite reducing muscle mass but compromises repair after injury. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2012**, 303, R321-31	3.2	12
53	Endurance training adaptations modulate the redox-force relationship of rat isolated slow-twitch skeletal muscles. *Clinical and Experimental Pharmacology and Physiology*, **2003**, 30, 77-81	3	12
52	Amino acid sensing and activation of mechanistic target of rapamycin complex 1: implications for skeletal muscle. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2016**, 19, 67-73	3.8	12
51	Intramuscular administration of PEGylated IGF-I improves skeletal muscle regeneration after myotoxic injury. *Growth Hormone and IGF Research*, **2013**, 23, 128-33	2	11
50	Chronic formoterol administration reduces cardiac mitochondrial protein synthesis and oxidative capacity in mice. *International Journal of Cardiology*, **2011**, 146, 270-2	3.2	11
49	Hyperbaric oxygen increases the contractile function of regenerating rat slow muscles. *Medicine and Science in Sports and Exercise*, **2002**, 34, 630-6	1.2	11
48	Novel therapies for sarcopenia: ameliorating age-related changes in skeletal muscle. *Expert Opinion on Therapeutic Patents*, **2002**, 12, 11-27	6.8	11
47	Functional properties of regenerating skeletal muscle following LIF administration. *Muscle and Nerve*, **2000**, 23, 1586-8	3.4	11
46	Glycine Protects Muscle Cells From Wasting via mTORC1 Signaling. *Frontiers in Nutrition*, **2019**, 6, 172	6.2	11
45	Phosphorylation within the cysteine-rich region of dystrophin enhances its association with dystroglycan and identifies a potential novel therapeutic target for skeletal muscle wasting. *Human Molecular Genetics*, **2014**, 23, 6697-711	5.6	10
44	Identification of FHL1 as a therapeutic target for Duchenne muscular dystrophy. *Human Molecular Genetics*, **2014**, 23, 618-36	5.6	10
43	Early functional muscle regeneration after myotoxic injury in mice is unaffected by nNOS absence. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2011**, 301, R1358-66	3.2	10
42	Hyperbaric oxygen increases the contractile function of regenerating rat slow muscles. *Medicine and Science in Sports and Exercise*, **2002**, 34, 630-636	1.2	10
41	Comprehensive characterization of single-cell full-length isoforms in human and mouse with long-read sequencing. *Genome Biology*, **2021**, 22, 310	18.3	10

40	Sarcopenia Age-Related Muscle Wasting and Weakness **2011**,		10
39	Comprehensive characterization of single cell full-length isoforms in human and mouse with long-read sequencing		10
38	The Microenvironment Is a Critical Regulator of Muscle Stem Cell Activation and Proliferation. *Frontiers in Cell and Developmental Biology*, **2019**, 7, 254	5.7	9
37	Glycine administration attenuates progression of dystrophic pathology in prednisolone-treated dystrophin/utrophin null mice. *Scientific Reports*, **2019**, 9, 12982	4.9	8
36	Functional adrenoceptors are important for early muscle regeneration in mice through effects on myoblast proliferation and differentiation. *PLoS ONE*, **2014**, 9, e101379	3.7	8
35	Glucosinolates From Cruciferous Vegetables and Their Potential Role in Chronic Disease: Investigating the Preclinical and Clinical Evidence. *Frontiers in Pharmacology*, **2021**, 12, 767975	5.6	8
34	Metabolic remodeling of dystrophic skeletal muscle reveals biological roles for dystrophin and utrophin in adaptation and plasticity. *Molecular Metabolism*, **2021**, 45, 101157	8.8	8
33	FHL1 reduces dystrophy in transgenic mice overexpressing FSHD muscular dystrophy region gene 1 (FRG1). *PLoS ONE*, **2015**, 10, e0117665	3.7	7
32	Rigor force responses of permeabilized fibres from fast and slow skeletal muscles of aged rats. *Clinical and Experimental Pharmacology and Physiology*, **2001**, 28, 779-81	3	7
31	Novel therapies for muscular dystrophy and other muscle wasting conditions. *Expert Opinion on Therapeutic Patents*, **2001**, 11, 587-601	6.8	7
30	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	4	6
29	Dietary meat and protection against sarcopenia. *Meat Science*, **2018**, 144, 180-185	6.4	6
28	Parvalbumin gene transfer impairs skeletal muscle contractility in old mice. *Human Gene Therapy*, **2012**, 23, 824-36	4.8	6
27	Power Output of Fast and Slow Skeletal Muscles of MDX (Dystrophic) and Control Mice After Clenbuterol Treatment **2000**, 85, 295		6
26	Iron accumulation in skeletal muscles of old mice is associated with impaired regeneration after ischaemia-reperfusion damage. *Journal of Cachexia, Sarcopenia and Muscle*, **2021**, 12, 476-492	10.3	6
25	Mitochondrial hydrogen sulfide supplementation improves health in the Duchenne muscular dystrophy model. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	6
24	Choline administration attenuates aspects of the dystrophic pathology in mdx mice. *Clinical Nutrition Experimental*, **2019**, 24, 83-91	2	5
23	Therapeutic potential of orphan drugs for the rare skeletal muscle diseases. *Expert Opinion on Orphan Drugs*, **2015**, 3, 1397-1425	1.1	4

22	Update on therapies for sarcopenia: novel approaches for age-related muscle wasting and weakness. *Expert Opinion on Therapeutic Patents*, **2004**, 14, 1329-1344	6.8	4
21	Therapeutic Potential of Skeletal Muscle Plasticity and Slow Muscle Programming for Muscular Dystrophy and Related Muscle Conditions **2017**, 277-292		4
20	Phosphorylation of ERK and dystrophin S3059 protects against inflammation-associated C2C12 myotube atrophy. *American Journal of Physiology - Cell Physiology*, **2021**, 320, C956-C965	5.4	3
19	Endurance training effects on the contractile activation characteristics of single muscle fibres from the rat diaphragm. *Clinical and Experimental Pharmacology and Physiology*, **1995**, 22, 430-7	3	2
18	Spatiotemporal Mapping Reveals Regional Gastrointestinal Dysfunction in mdx Dystrophic Mice Ameliorated by Oral L-arginine Supplementation. *Journal of Neurogastroenterology and Motility*, **2020**, 26, 133-146	4.4	2
17	Dystrophin deficiency disrupts muscle clock expression and mitochondrial quality control in mice. *American Journal of Physiology - Cell Physiology*, **2021**, 321, C288-C296	5.4	2
16	Overcoming nature's paradox in skeletal muscle to optimise animal production. *Animal Production Science*, **2019**, 59, 1957	1.4	1
15	Deletion of suppressor of cytokine signaling 3 (SOCS3) in muscle stem cells does not alter muscle regeneration in mice after injury. *PLoS ONE*, **2019**, 14, e0212880	3.7	1
14	HSP70 drives myoblast fusion during C2C12 myogenic differentiation. *Biology Open*, **2020**, 9,	2.2	1
13	Making old muscles young again – a therapeutic role for β-agonists? **2004**, 33-35		1
12	β-Adrenergic stimulation enhances IGF signaling in regenerating rat skeletal muscle. *FASEB Journal*, **2007**, 21, A944	0.9	1
11	Overview of Sarcopenia **2011**, 1-7		1
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