Gillian S Butler-Browne

List of Publications by Citations

176 papers	9,632 citations	55 h-index	92 g-index
186 ext. papers	10,805 ext. citations	6.1 avg, IF	5.47 L-index

#	Paper	IF	Citations
176	Cells respond to mechanical stress by rapid disassembly of caveolae. *Cell*, **2011**, 144, 402-13	56.2	575
175	Three myosin heavy-chain isozymes appear sequentially in rat muscle development. *Nature*, **1981**, 292, 805-9	50.4	537
174	Identification of a novel form of myosin light chain present in embryonic muscle tissue and cultured muscle cells. *Journal of Molecular Biology*, **1978**, 126, 415-31	6.5	295
173	Desmin is essential for the tensile strength and integrity of myofibrils but not for myogenic commitment, differentiation, and fusion of skeletal muscle. *Journal of Cell Biology*, **1997**, 139, 129-44	7.3	286
172	Human circulating AC133(+) stem cells restore dystrophin expression and ameliorate function in dystrophic skeletal muscle. *Journal of Clinical Investigation*, **2004**, 114, 182-95	15.9	271
171	Myosin isozyme transitions occurring during the postnatal development of the rat soleus muscle. *Developmental Biology*, **1984**, 102, 324-34	3.1	269
170	Regenerative potential of human skeletal muscle during aging. *Aging Cell*, **2002**, 1, 132-9	9.9	255
169	Cellular senescence in human myoblasts is overcome by human telomerase reverse transcriptase and cyclin-dependent kinase 4: consequences in aging muscle and therapeutic strategies for muscular dystrophies. *Aging Cell*, **2007**, 6, 515-23	9.9	201
168	Human muscle satellite cells as targets of Chikungunya virus infection. *PLoS ONE*, **2007**, 2, e527	3.7	198
167	Expression of myosin isoforms during notexin-induced regeneration of rat soleus muscles. *Developmental Biology*, **1990**, 141, 24-40	3.1	197
166	Myosin heavy chain isoforms in postnatal muscle development of mice. *Biology of the Cell*, **2003**, 95, 399-406	3.5	186
165	Immortalized pathological human myoblasts: towards a universal tool for the study of neuromuscular disorders. *Skeletal Muscle*, **2011**, 1, 34	5.1	160
164	Cellular adaptation of the trapezius muscle in strength-trained athletes. *Histochemistry and Cell Biology*, **1999**, 111, 189-95	2.4	142
163	Denervation of newborn rat muscle does not block the appearance of adult fast myosin heavy chain. *Nature*, **1982**, 299, 830-3	50.4	124
162	Beta-hydroxy-beta-methylbutyrate (HMB) stimulates myogenic cell proliferation, differentiation and survival via the MAPK/ERK and PI3K/Akt pathways. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2009**, 1793, 755-63	4.9	123
161	In vivo myogenic potential of human CD133+ muscle-derived stem cells: a quantitative study. *Molecular Therapy*, **2009**, 17, 1771-8	11.7	116
160	Molecular cloning of human cardiac troponin I using polymerase chain reaction. *FEBS Letters*, **1990**, 270, 57-61	3.8	112

159	Human Adipocytes Induce Inflammation and Atrophy in Muscle Cells During Obesity. *Diabetes*, **2015**, 64, 3121-34	0.9	111
158	JAK inhibitor improves type I interferon induced damage: proof of concept in dermatomyositis. *Brain*, **2018**, 141, 1609-1621	11.2	104
157	Inhibition of Chikungunya virus infection in cultured human muscle cells by furin inhibitors: impairment of the maturation of the E2 surface glycoprotein. *Journal of Biological Chemistry*, **2008**, 283, 21899-908	5.4	104
156	Proinflammatory macrophages enhance the regenerative capacity of human myoblasts by modifying their kinetics of proliferation and differentiation. *Molecular Therapy*, **2012**, 20, 2168-79	11.7	97
155	In-depth analysis of the secretome identifies three major independent secretory pathways in differentiating human myoblasts. *Journal of Proteomics*, **2012**, 77, 344-56	3.9	97
154	Replicative aging down-regulates the myogenic regulatory factors in human myoblasts. *Biology of the Cell*, **2008**, 100, 189-99	3.5	97
153	Autologous myoblast transplantation for oculopharyngeal muscular dystrophy: a phase I/IIa clinical study. *Molecular Therapy*, **2014**, 22, 219-25	11.7	94
152	Effects of hypothyroidism on myosin isozyme transitions in developing rat muscle. *FEBS Letters*, **1984**, 166, 71-5	3.8	88
151	Myostatin promotes the wasting of human myoblast cultures through promoting ubiquitin-proteasome pathway-mediated loss of sarcomeric proteins. *American Journal of Physiology - Cell Physiology*, **2011**, 301, C1316-24	5.4	81
150	Human desmin-coding gene: complete nucleotide sequence, characterization and regulation of expression during myogenesis and development. *Gene*, **1989**, 78, 243-54	3.8	81
149	Age-dependent alteration in muscle regeneration: the critical role of tissue niche. *Biogerontology*, **2013**, 14, 273-92	4.5	79
148	Human skeletal muscle satellite cells: aging, oxidative stress and the mitotic clock. *Experimental Gerontology*, **2002**, 37, 1229-36	4.5	79
147	Physical studies of chromatin. The recombination of histones with DNA. *FEBS Journal*, **1976**, 62, 21-31		79
146	Necrosis in anti-SRP and anti-HMGCRmyopathies: Role of autoantibodies and complement. *Neurology*, **2018**, 90, e507-e517	6.5	78
145	Human myostatin negatively regulates human myoblast growth and differentiation. *American Journal of Physiology - Cell Physiology*, **2011**, 301, C195-203	5.4	75
144	Efficient bypass of mutations in dysferlin deficient patient cells by antisense-induced exon skipping. *Human Mutation*, **2010**, 31, 136-42	4.7	75
143	Assessment of maximal handgrip strength: how many attempts are needed?. *Journal of Cachexia, Sarcopenia and Muscle*, **2017**, 8, 466-474	10.3	73
142	Large CTG repeats trigger p16-dependent premature senescence in myotonic dystrophy type 1 muscle precursor cells. *American Journal of Pathology*, **2009**, 174, 1435-42	5.8	72

141	Age-Associated Methylation Suppresses SPRY1, Leading to a Failure of Re-quiescence and Loss of the Reserve Stem Cell Pool in Elderly Muscle. *Cell Reports*, **2015**, 13, 1172-1182	10.6	71
140	Pathological mechanisms implicated in localized female trapezius myalgia. *Pain*, **1998**, 78, 191-196	8	71
139	Defective mRNA in myotonic dystrophy accumulates at the periphery of nuclear splicing speckles. *Genes To Cells*, **2007**, 12, 1035-48	2.3	71
138	Athletes with exercise-associated fatigue have abnormally short muscle DNA telomeres. *Medicine and Science in Sports and Exercise*, **2003**, 35, 1524-8	1.2	71
137	Pathogenic role of anti-signal recognition protein and anti-3-Hydroxy-3-methylglutaryl-CoA reductase antibodies in necrotizing myopathies: Myofiber atrophy and impairment of muscle regeneration in necrotizing autoimmune myopathies. *Annals of Neurology*, **2017**, 81, 538-548	9.4	69
136	Mechano Growth Factor E peptide (MGF-E), derived from an isoform of IGF-1, activates human muscle progenitor cells and induces an increase in their fusion potential at different ages. *Mechanisms of Ageing and Development*, **2011**, 132, 154-62	5.6	65
135	Role of regulatory T cells in a new mouse model of experimental autoimmune myositis. *American Journal of Pathology*, **2009**, 174, 989-98	5.8	64
134	Skeletal muscle telomere length in healthy, experienced, endurance runners. *European Journal of Applied Physiology*, **2010**, 109, 323-30	3.4	64
133	Molecular and phenotypic characterization of a mouse model of oculopharyngeal muscular dystrophy reveals severe muscular atrophy restricted to fast glycolytic fibres. *Human Molecular Genetics*, **2010**, 19, 2191-207	5.6	62
132	Drug-induced readthrough of premature stop codons leads to the stabilization of laminin alpha2 chain mRNA in CMD myotubes. *Journal of Gene Medicine*, **2008**, 10, 217-24	3.5	60
131	Analysis of skeletal and cardiac muscle from desmin knock-out and normal mice by high resolution separation of myosin heavy-chain isoforms. *Biology of the Cell*, **1996**, 88, 131-135	3.5	60
130	Muscleblind-like proteins: similarities and differences in normal and myotonic dystrophy muscle. *American Journal of Pathology*, **2009**, 174, 216-27	5.8	58
129	The Impact of Different Diagnostic Criteria on the Prevalence of Sarcopenia in Healthy Elderly Participants and Geriatric Outpatients. *Gerontology*, **2015**, 61, 491-6	5.5	57
128	NMR imaging estimates of muscle volume and intramuscular fat infiltration in the thigh: variations with muscle, gender, and age. *Age*, **2015**, 37, 9798		57
127	Circulating levels of adipokines and IGF-1 are associated with skeletal muscle strength of young and old healthy subjects. *Biogerontology*, **2013**, 14, 261-72	4.5	57
126	IL-13 mediates the recruitment of reserve cells for fusion during IGF-1-induced hypertrophy of human myotubes. *Journal of Cell Science*, **2007**, 120, 670-81	5.3	56
125	Premature proliferative arrest of cricopharyngeal myoblasts in oculo-pharyngeal muscular dystrophy: Therapeutic perspectives of autologous myoblast transplantation. *Neuromuscular Disorders*, **2006**, 16, 770-81	2.9	56
124	Handgrip Strength Cannot Be Assumed a Proxy for Overall Muscle Strength. *Journal of the American Medical Directors Association*, **2018**, 19, 703-709	5.9	55

123	Inflammation-induced acute phase response in skeletal muscle and critical illness myopathy. *PLoS ONE*, **2014**, 9, e92048	3.7	55
122	Telomerase can extend the proliferative capacity of human myoblasts, but does not lead to their immortalization. *Molecular Cancer Research*, **2003**, 1, 643-53	6.6	55
121	Premature aging in skeletal muscle lacking serum response factor. *PLoS ONE*, **2008**, 3, e3910	3.7	54
120	Proteomics of muscle chronological ageing in post-menopausal women. *BMC Genomics*, **2014**, 15, 1165	4.5	53
119	Manual segmentation of individual muscles of the quadriceps femoris using MRI: a reappraisal. *Journal of Magnetic Resonance Imaging*, **2014**, 40, 239-47	5.6	52
118	Generation of isogenic D4Z4 contracted and noncontracted immortal muscle cell clones from a mosaic patient: a cellular model for FSHD. *American Journal of Pathology*, **2012**, 181, 1387-401	5.8	52
117	DUX4 and DUX4 downstream target genes are expressed in fetal FSHD muscles. *Human Molecular Genetics*, **2014**, 23, 171-81	5.6	49
116	Age-related appearance of tubular aggregates in the skeletal muscle of almost all male inbred mice. *Histochemistry and Cell Biology*, **2000**, 114, 477-81	2.4	49
115	Dystrophin deficiency leads to disturbance of LAMP1-vesicle-associated protein secretion. *Cellular and Molecular Life Sciences*, **2013**, 70, 2159-74	10.3	48
114	Immortalized skin fibroblasts expressing conditional MyoD as a renewable and reliable source of converted human muscle cells to assess therapeutic strategies for muscular dystrophies: validation of an exon-skipping approach to restore dystrophin in Duchenne muscular dystrophy cells. *Human Gene Therapy*, **2009**, 20, 784-90	4.8	48
113	Combination of myostatin pathway interference and dystrophin rescue enhances tetanic and specific force in dystrophic mdx mice. *Molecular Therapy*, **2010**, 18, 881-7	11.7	47
112	Physiological and functional evaluation of healthy young and older men and women: design of the European MyoAge study. *Biogerontology*, **2013**, 14, 325-37	4.5	46
111	Troponin T mRNA and protein isoforms in the human left ventricle: pattern of expression in failing and control hearts. *Journal of Molecular and Cellular Cardiology*, **1997**, 29, 3043-55	5.8	45
110	Plantarflexor Muscle-Tendon Properties are Associated With Mobility in Healthy Older Adults. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2015**, 70, 996-1002	6.4	44
109	DUX4c is up-regulated in FSHD. It induces the MYF5 protein and human myoblast proliferation. *PLoS ONE*, **2009**, 4, e7482	3.7	43
108	Telomere length as a tool to monitor satellite cell amplification for cell-mediated gene therapy. *Human Gene Therapy*, **1996**, 7, 1347-50	4.8	43
107	Mitochondrial dysfunction reveals the role of mRNA poly(A) tail regulation in oculopharyngeal muscular dystrophy pathogenesis. *PLoS Genetics*, **2015**, 11, e1005092	6	42
106	Coupling between skeletal muscle fiber size and capillarization is maintained during healthy aging. *Journal of Cachexia, Sarcopenia and Muscle*, **2017**, 8, 647-659	10.3	41

105	Distribution of satellite cells in the human vastus lateralis muscle during aging. *Experimental Gerontology*, **2002**, 37, 1513-4	4.5	41
104	Expression and modification proteomics during skeletal muscle ageing. *Biogerontology*, **2013**, 14, 339-52	4.5	40
103	Slowing down differentiation of engrafted human myoblasts into immunodeficient mice correlates with increased proliferation and migration. *Molecular Therapy*, **2012**, 20, 146-54	11.7	40
102	Abnormalities of satellite cells function in amyotrophic lateral sclerosis. *Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders*, **2011**, 12, 264-71		39
101	The muscle-specific enolase is an early marker of human myogenesis. *Journal of Muscle Research and Cell Motility*, **2001**, 22, 535-44	3.5	38
100	Label-free quantitative protein profiling of vastus lateralis muscle during human aging. *Molecular and Cellular Proteomics*, **2014**, 13, 283-94	7.6	37
99	Fetal myosin heavy chain increases in human masseter muscle during aging. *FEBS Letters*, **1996**, 386, 87-90	3.8	37
98	Atrophy, fibrosis, and increased PAX7-positive cells in pharyngeal muscles of oculopharyngeal muscular dystrophy patients. *Journal of Neuropathology and Experimental Neurology*, **2013**, 72, 234-43	3.1	36
97	Current advances in cell therapy strategies for muscular dystrophies. *Expert Opinion on Biological Therapy*, **2011**, 11, 157-76	5.4	35
96	Human myoblast engraftment is improved in laminin-enriched microenvironment. *Transplantation*, **2008**, 85, 566-75	1.8	35
95	Changes in myotonic dystrophy protein kinase levels and muscle development in congenital myotonic dystrophy. *American Journal of Pathology*, **2003**, 162, 1001-9	5.8	35
94	Comparative analysis of genetically engineered immunodeficient mouse strains as recipients for human myoblast transplantation. *Cell Transplantation*, **2005**, 14, 457-67	4	35
93	Lack of desmin results in abortive muscle regeneration and modifications in synaptic structure. *Cytoskeleton*, **2001**, 49, 51-66		35
92	Association between osteocalcin and cognitive performance in healthy older adults. *Age and Ageing* , **2016**, 45, 844-849	3	35
91	Voluntary physical activity protects from susceptibility to skeletal muscle contraction-induced injury but worsens heart function in mdx mice. *American Journal of Pathology*, **2013**, 182, 1509-18	5.8	34
90	Progressive skeletal muscle weakness in transgenic mice expressing CTG expansions is associated with the activation of the ubiquitin-proteasome pathway. *Neuromuscular Disorders*, **2010**, 20, 319-25	2.9	34
89	Development of fiber types in human fetal muscle. An immunocytochemical study. *Journal of the Neurological Sciences*, **1984**, 66, 107-15	3.2	34
88	Skeletal muscles express the xenobiotic-metabolizing enzyme arylamine N-acetyltransferase. *Journal of Histochemistry and Cytochemistry*, **2003**, 51, 789-96	3.4	33

87	A discrepancy resolved: human satellite cells are not preprogrammed to fast and slow lineages. *Neuromuscular Disorders*, **2001**, 11, 747-52	2.9	33
86	Cellular Therapies for Muscular Dystrophies: Frustrations and Clinical Successes. *Human Gene Therapy*, **2016**, 27, 117-26	4.8	32
85	Type B mandibuloacral dysplasia with congenital myopathy due to homozygous ZMPSTE24 missense mutation. *European Journal of Human Genetics*, **2011**, 19, 647-54	5.3	32
84	A developmentally regulated disappearance of slow myosin in fast-type muscles of the mouse. *FEBS Letters*, **1984**, 177, 51-6	3.8	32
83	Transitions in contractile protein isozymes during muscle cell differentiation. *Biochimie*, **1979**, 61, 625-32	4.6	32
82	Dystrophy-associated caveolin-3 mutations reveal that caveolae couple IL6/STAT3 signaling with mechanosensing in human muscle cells. *Nature Communications*, **2019**, 10, 1974	17.4	31
81	Productive infection of human skeletal muscle cells by pandemic and seasonal influenza A(H1N1) viruses. *PLoS ONE*, **2013**, 8, e79628	3.7	31
80	Severe muscle dysfunction precedes collagen tissue proliferation in mdx mouse diaphragm. *Journal of Applied Physiology*, **2003**, 94, 1744-50	3.7	28
79	Impaired energy metabolism of senescent muscle satellite cells is associated with oxidative modifications of glycolytic enzymes. *Aging*, **2016**, 8, 3375-3389	5.6	28
78	Dysregulation of C-X-C motif ligand 10 during aging and association with cognitive performance. *Neurobiology of Aging*, **2018**, 63, 54-64	5.6	28
77	Intramuscular sex steroid hormones are associated with skeletal muscle strength and power in women with different hormonal status. *Aging Cell*, **2015**, 14, 236-48	9.9	27
76	Invited review: Stem cells and muscle diseases: advances in cell therapy strategies. *Neuropathology and Applied Neurobiology*, **2015**, 41, 270-87	5.2	27
75	Correlation between low FAT1 expression and early affected muscle in facioscapulohumeral muscular dystrophy. *Annals of Neurology*, **2015**, 78, 387-400	9.4	27
74	Expression of slow myosin heavy chain during muscle regeneration is not always dependent on muscle innervation and calcineurin phosphatase activity. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2006**, 290, R1508-14	3.2	26
73	Improvement of dysphagia following cricopharyngeal myotomy in a group of elderly patients. Histochemical and biochemical assessment of the cricopharyngeal muscle. *Annals of Otology, Rhinology and Laryngology*, **1995**, 104, 603-9	2.1	26
72	Contractile properties, structure and fiber phenotype of intact and regenerating slow-twitch muscles of mice treated with cyclosporin A. *Cell and Tissue Research*, **2002**, 308, 143-56	4.2	25
71	The adult fast isozyme of myosin is present in a nerve-muscle tissue culture system. *Differentiation*, **1983**, 25, 84-7	3.5	25
70	Dynamic left/right regionalisation of endogenous myosin light chain 3F transcripts in the developing mouse heart. *Journal of Molecular and Cellular Cardiology*, **1998**, 30, 1067-81	5.8	24

69	Cellular Proteome Dynamics during Differentiation of Human Primary Myoblasts. *Journal of Proteome Research*, **2015**, 14, 3348-61	5.6	23
68	HGF potentiates extracellular matrix-driven migration of human myoblasts: involvement of matrix metalloproteinases and MAPK/ERK pathway. *Skeletal Muscle*, **2017**, 7, 20	5.1	23
67	Viral-mediated expression of desmin mutants to create mouse models of myofibrillar myopathy. *Skeletal Muscle*, **2013**, 3, 4	5.1	23
66	Influence of early postnatal cold exposure on myofiber maturation in pig skeletal muscle. *Journal of Muscle Research and Cell Motility*, **2001**, 22, 439-52	3.5	23
65	Exon 32 Skipping of Dysferlin Rescues Membrane Repair in PatientsQCells. *Journal of Neuromuscular Diseases*, **2015**, 2, 281-290	5	22
64	Cholesterol depletion by methyl-Ecyclodextrin enhances cell proliferation and increases the number of desmin-positive cells in myoblast cultures. *European Journal of Pharmacology*, **2012**, 694, 1-12	5.3	22
63	Impaired adaptive response to mechanical overloading in dystrophic skeletal muscle. *PLoS ONE*, **2012**, 7, e35346	3.7	22
62	Prolonged myalgia in Sindbis virus infection: case description and in vitro infection of myotubes and myoblasts. *Journal of Infectious Diseases*, **2012**, 206, 407-14	7	22
61	Proteome analysis of differentiating human myoblasts by dialysis-assisted two-dimensional gel electrophoresis (DAGE). *Proteomics*, **2008**, 8, 264-78	4.8	22
60	Skeletal Muscle Regenerative Potential of Human MuStem Cells following Transplantation into Injured Mice Muscle. *Molecular Therapy*, **2018**, 26, 618-633	11.7	22
59	Expression of myogenic regulatory factors and myo-endothelial remodeling in sporadic inclusion body myositis. *Neuromuscular Disorders*, **2013**, 23, 75-83	2.9	21
58	Myosin heavy chain expression in human laryngeal muscle fibers. A biochemical study. *Annals of Otology, Rhinology and Laryngology*, **2000**, 109, 216-20	2.1	21
57	Predictive markers of clinical outcome in the GRMD dog model of Duchenne muscular dystrophy. *DMM Disease Models and Mechanisms*, **2014**, 7, 1253-61	4.1	20
56	TGF-beta1 favors the development of fast type identity during soleus muscle regeneration. *Journal of Muscle Research and Cell Motility*, **2006**, 27, 1-8	3.5	20
55	Nuclear poly(A)-binding protein aggregates misplace a pre-mRNA outside of SC35 speckle causing its abnormal splicing. *Nucleic Acids Research*, **2016**, 44, 10929-10945	20.1	20
54	The Rag2?Il2rb?Dmd? mouse: a novel dystrophic and immunodeficient model to assess innovating therapeutic strategies for muscular dystrophies. *Molecular Therapy*, **2013**, 21, 1950-7	11.7	19
53	Muscle wasting induced by HTLV-1 tax-1 protein: an in vitro and in vivo study. *American Journal of Pathology*, **2005**, 167, 1609-19	5.8	19
52	Dystrophin restoration therapy improves both the reduced excitability and the force drop induced by lengthening contractions in dystrophic mdx skeletal muscle. *Skeletal Muscle*, **2016**, 6, 23	5.1	18

51	Specific isomyosin proportions in hyperexcitable and physiologically denervated mouse muscle. *FEBS Letters*, **2004**, 561, 191-4	3.8	18
50	Nuclear protein spreading: implication for pathophysiology of neuromuscular diseases. *Human Molecular Genetics*, **2014**, 23, 4125-33	5.6	17
49	Protective effect of female gender-related factors on muscle force-generating capacity and fragility in the dystrophic mdx mouse. *Muscle and Nerve*, **2013**, 48, 68-75	3.4	17
48	Analysis of skeletal and cardiac muscle from desmin knock-out and normal mice by high resolution separation of myosin heavy-chain isoforms **1996**, 88, 131		17
47	miRNA expression in control and FSHD fetal human muscle biopsies. *PLoS ONE*, **2015**, 10, e0116853	3.7	16
46	Pharmacological modulation of the ER stress response ameliorates oculopharyngeal muscular dystrophy. *Human Molecular Genetics*, **2019**, 28, 1694-1708	5.6	16
45	HTLV-1-associated inflammatory myopathies: low proviral load and moderate inflammation in 13 patients from West Indies and West Africa. *Journal of Clinical Virology*, **2013**, 57, 70-6	14.5	15
44	CellWhere: graphical display of interaction networks organized on subcellular localizations. *Nucleic Acids Research*, **2015**, 43, W571-5	20.1	15
43	Lamin Mutations Cause Increased YAP Nuclear Entry in Muscle Stem Cells. *Cells*, **2020**, 9,	7.9	15
42	Myofiber androgen receptor promotes maximal mechanical overload-induced muscle hypertrophy and fiber type transition in male mice. *Endocrinology*, **2014**, 155, 4739-48	4.8	14
41	Human muscle stem cells. *Current Opinion in Pharmacology*, **2006**, 6, 295-300	5.1	14
40	Muscle satellite cells are functionally impaired in myasthenia gravis: consequences on muscle regeneration. *Acta Neuropathologica*, **2017**, 134, 869-888	14.3	13
39	Regenerative potential of human muscle stem cells in chronic inflammation. *Arthritis Research and Therapy*, **2011**, 13, R207	5.7	13
38	Effect of voluntary physical activity initiated at age 7 months on skeletal hindlimb and cardiac muscle function in mdx mice of both genders. *Muscle and Nerve*, **2015**, 52, 788-94	3.4	12
37	The lymphocyte secretome from young adults enhances skeletal muscle proliferation and migration, but effects are attenuated in the secretome of older adults. *Physiological Reports*, **2015**, 3, e12518	2.6	10
36	CD49d is a disease progression biomarker and a potential target for immunotherapy in Duchenne muscular dystrophy. *Skeletal Muscle*, **2015**, 5, 45	5.1	10
35	Advances in the understanding of skeletal muscle weakness in murine models of diseases affecting nerve-evoked muscle activity, motor neurons, synapses and myofibers. *Neuromuscular Disorders*, **2014**, 24, 960-72	2.9	9
34	Mechanical Overloading Increases Maximal Force and Reduces Fragility in Hind Limb Skeletal Muscle from Mdx Mouse. *American Journal of Pathology*, **2015**, 185, 2012-24	5.8	9

33	Acetylcholine receptor formation in mouse-chick chimera. *Experimental Cell Research*, **1997**, 236, 29-42	4.2	9
32	Differences in the expression and distribution of flotillin-2 in chick, mice and human muscle cells. *PLoS ONE*, **2014**, 9, e103990	3.7	9
31	Differential integrin expression by T lymphocytes: potential role in DMD muscle damage. *Journal of Neuroimmunology*, **2010**, 223, 128-30	3.5	8
30	Lamin-Related Congenital Muscular Dystrophy Alters Mechanical Signaling and Skeletal Muscle Growth. *International Journal of Molecular Sciences*, **2020**, 22,	6.3	8
29	Age-related alterations in muscle architecture are a signature of sarcopenia: the ultrasound sarcopenia index. *Journal of Cachexia, Sarcopenia and Muscle*, **2021**, 12, 973-982	10.3	8
28	Acute effect of androgens on maximal force-generating capacity and electrically evoked calcium transient in mouse skeletal muscles. *Steroids*, **2014**, 87, 6-11	2.8	7
27	KCC3 loss-of-function contributes to Andermann syndrome by inducing activity-dependent neuromuscular junction defects. *Neurobiology of Disease*, **2017**, 106, 35-48	7.5	7
26	Biochemical and immunocytochemical analysis in chronic proximal spinal muscular atrophy. *Muscle and Nerve*, **1994**, 17, 400-10	3.4	7
25	Effect of locomotor training on muscle performance in the context of nerve-muscle communication dysfunction. *Muscle and Nerve*, **2012**, 45, 567-77	3.4	6
24	Induction and stability of the adult myosin phenotype in striated muscles of dwarf mice after chronic thyroid hormone treatment. *FEBS Journal*, **1989**, 185, 555-61		6
23	Transduction Efficiency of Adeno-Associated Virus Serotypes After Local Injection in Mouse and Human Skeletal Muscle. *Human Gene Therapy*, **2020**, 31, 233-240	4.8	6
22	Improvement of Duchenne muscular dystrophy phenotype following obestatin treatment. *Journal of Cachexia, Sarcopenia and Muscle*, **2018**, 9, 1063-1078	10.3	6
21	Simplified in vitro engineering of neuromuscular junctions between rat embryonic motoneurons and immortalized human skeletal muscle cells. *Stem Cells and Cloning: Advances and Applications*, **2019**, 12, 1-9	2.6	5
20	Myoblasts and embryonic stem cells differentially engraft in a mouse model of genetic dilated cardiomyopathy. *Molecular Therapy*, **2013**, 21, 1064-75	11.7	5
19	Transcription of the embryonic myosin light chain gene is restricted to type II muscle fibers in human adult masseter. *Developmental Biology*, **1991**, 147, 374-80	3.1	5
18	Activated dendritic cells modulate proliferation and differentiation of human myoblasts. *Cell Death and Disease*, **2018**, 9, 551	9.8	4
17	Obestatin Increases the Regenerative Capacity of Human Myoblasts Transplanted Intramuscularly in an Immunodeficient Mouse Model. *Molecular Therapy*, **2017**, 25, 2345-2359	11.7	4
16	Differentiation-dependent susceptibility of human muscle cells to Zika virus infection. *PLoS Neglected Tropical Diseases*, **2020**, 14, e0008282	4.8	4

15	A functional human motor unit platform engineered from human embryonic stem cells and immortalized skeletal myoblasts. *Stem Cells and Cloning: Advances and Applications*, **2018**, 11, 85-93	2.6	4
14	Arboviruses and Muscle Disorders: From Disease to Cell Biology. *Viruses*, **2020**, 12,	6.2	3
13	Analysis of growth factor expression in affected and unaffected muscles of oculo-pharyngeal muscular dystrophy (OPMD) patients: a pilot study. *Neuromuscular Disorders*, **2009**, 19, 199-206	2.9	3
12	Comparison of Different Methods to Estimate the Volume of the Quadriceps Femoris Muscles Using MRI. *Journal of Medical Imaging and Health Informatics*, **2015**, 5, 1201-1207	1.2	3
11	Crosstalk Between Innate and T Cell Adaptive Immunity With(in) the Muscle. *Frontiers in Physiology*, **2020**, 11, 573347	4.6	3
10	A Novel Bioengineered Functional Motor Unit Platform to Study Neuromuscular Interaction. *Journal of Clinical Medicine*, **2020**, 9,	5.1	3
9	Myogenic Cell Transplantation in Genetic and Acquired Diseases of Skeletal Muscle. *Frontiers in Genetics*, **2021**, 12, 702547	4.5	3
8	Modification of the dystrophic phenotype after transient neonatal denervation: role of MHC isoforms. *Journal of Neurobiology*, **1992**, 23, 751-65		2
7	Association of interleukin-6 rs1800796 polymorphism with reduced cognitive performance in healthy older adults. *Meta Gene*, **2019**, 19, 51-55	0.7	1
6	Challenges in cell transplantation for muscular dystrophy. *Experimental Cell Research*, **2021**, 409, 112908	4.2	0
5	Zika virus disrupts gene expression in human myoblasts and myotubes: Relationship with susceptibility to infection.. *PLoS Neglected Tropical Diseases*, **2022**, 16, e0010166	4.8	0
4	Combined methods to evaluate human cells in muscle xenografts. *PLoS ONE*, **2019**, 14, e0211522	3.7	
3	Response to Comment on Pellegrinelli et al. Human Adipocytes Induce Inflammation and Atrophy in Muscle Cells During Obesity. Diabetes 2015;64:3121–3134. *Diabetes*, **2015**, 64, e23-e24	0.9	
2	Cell-Based Therapies in Skeletal Muscle Disease **2012**, 1053-1063		
1	Myogenic Potential of Stem Cells: In Vivo Assessment. *Pancreatic Islet Biology*, **2013**, 1-17	0.4	