John M Shelton

List of Publications by Citations

119 papers	18,061 citations	66 h-index	121 g-index
121 ext. papers	20,460 ext. citations	14.5 avg, IF	6.16 L-index

#	Paper	IF	Citations
119	Reeler/Disabled-like disruption of neuronal migration in knockout mice lacking the VLDL receptor and ApoE receptor 2. *Cell*, **1999**, 97, 689-701	56.2	1093
118	Regulation of antibacterial defense in the small intestine by the nuclear bile acid receptor. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 3920-5	11.5	759
117	A micropeptide encoded by a putative long noncoding RNA regulates muscle performance. *Cell*, **2015**, 160, 595-606	56.2	706
116	Postnatal genome editing partially restores dystrophin expression in a mouse model of muscular dystrophy. *Science*, **2016**, 351, 400-3	33.3	657
115	Histone deacetylase 4 controls chondrocyte hypertrophy during skeletogenesis. *Cell*, **2004**, 119, 555-66	56.2	640
114	Cardiac autophagy is a maladaptive response to hemodynamic stress. *Journal of Clinical Investigation*, **2007**, 117, 1782-93	15.9	582
113	Hippo pathway effector Yap promotes cardiac regeneration. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 13839-44	11.5	575
112	Transcriptional coactivator PGC-1 alpha controls the energy state and contractile function of cardiac muscle. *Cell Metabolism*, **2005**, 1, 259-71	24.6	532
111	Cardiac failure in transgenic mice with myocardial expression of tumor necrosis factor-alpha. *Circulation*, **1998**, 97, 1375-81	16.7	524
110	Prevention of muscular dystrophy in mice by CRISPR/Cas9-mediated editing of germline DNA. *Science*, **2014**, 345, 1184-1188	33.3	493
109	Cytochrome c deficiency causes embryonic lethality and attenuates stress-induced apoptosis. *Cell*, **2000**, 101, 389-99	56.2	421
108	Activated glycogen synthase-3 beta suppresses cardiac hypertrophy in vivo. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 907-12	11.5	420
107	Multiple organ pathology, metabolic abnormalities and impaired homeostasis of reactive oxygen species in Epas1-/- mice. *Nature Genetics*, **2003**, 35, 331-40	36.3	384
106	Interactions of the low density lipoprotein receptor gene family with cytosolic adaptor and scaffold proteins suggest diverse biological functions in cellular communication and signal transduction. *Journal of Biological Chemistry*, **2000**, 275, 25616-24	5.4	368
105	MEF2C transcription factor controls chondrocyte hypertrophy and bone development. *Developmental Cell*, **2007**, 12, 377-89	10.2	346
104	Stimulation of slow skeletal muscle fiber gene expression by calcineurin in vivo. *Journal of Biological Chemistry*, **2000**, 275, 4545-8	5.4	328
103	Histone deacetylase degradation and MEF2 activation promote the formation of slow-twitch myofibers. *Journal of Clinical Investigation*, **2007**, 117, 2459-67	15.9	308

102	Myogenin and class II HDACs control neurogenic muscle atrophy by inducing E3 ubiquitin ligases. *Cell*, **2010**, 143, 35-45	56.2	306
101	Myomaker is a membrane activator of myoblast fusion and muscle formation. *Nature*, **2013**, 499, 301-5	50.4	295
100	Gene editing restores dystrophin expression in a canine model of Duchenne muscular dystrophy. *Science*, **2018**, 362, 86-91	33.3	283
99	Elevated TCA cycle function in the pathology of diet-induced hepatic insulin resistance and fatty liver. *Journal of Lipid Research*, **2012**, 53, 1080-92	6.3	241
98	Mitochondrial metabolism mediates oxidative stress and inflammation in fatty liver. *Journal of Clinical Investigation*, **2015**, 125, 4447-62	15.9	234
97	Metabolic stress-induced activation of FoxO1 triggers diabetic cardiomyopathy in mice. *Journal of Clinical Investigation*, **2012**, 122, 1109-18	15.9	230
96	microRNA-206 promotes skeletal muscle regeneration and delays progression of Duchenne muscular dystrophy in mice. *Journal of Clinical Investigation*, **2012**, 122, 2054-65	15.9	229
95	Critical roles of the guanylyl cyclase B receptor in endochondral ossification and development of female reproductive organs. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 17300-5	11.5	227
94	A role for the apoptosis inhibitory factor AIM/Spalpha/Api6 in atherosclerosis development. *Cell Metabolism*, **2005**, 1, 201-13	24.6	224
93	Transcription of the non-coding RNA upperhand controls Hand2 expression and heart development. *Nature*, **2016**, 539, 433-436	50.4	209
92	Loss of NFAT5 results in renal atrophy and lack of tonicity-responsive gene expression. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 2392-7	11.5	206
91	Hypoxia fate mapping identifies cycling cardiomyocytes in the adult heart. *Nature*, **2015**, 523, 226-30	50.4	204
90	Requirement of protein kinase D1 for pathological cardiac remodeling. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 3059-63	11.5	198
89	Maladaptive role of IL-6 in ischemic acute renal failure. *Journal of the American Society of Nephrology: JASN*, **2005**, 16, 3315-25	12.7	193
88	Klotho and phosphate are modulators of pathologic uremic cardiac remodeling. *Journal of the American Society of Nephrology: JASN*, **2015**, 26, 1290-302	12.7	187
87	Autophagy is an adaptive response in desmin-related cardiomyopathy. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 9745-50	11.5	185
86	Intracellular protein aggregation is a proximal trigger of cardiomyocyte autophagy. *Circulation*, **2008**, 117, 3070-8	16.7	184
85	Myosin accumulation and striated muscle myopathy result from the loss of muscle RING finger 1 and 3. *Journal of Clinical Investigation*, **2007**, 117, 2486-95	15.9	184

84	Control of muscle formation by the fusogenic micropeptide myomixer. *Science*, **2017**, 356, 323-327	33.3	178
83	HIF-2alpha regulates murine hematopoietic development in an erythropoietin-dependent manner. *Blood*, **2005**, 105, 3133-40	2.2	178
82	Mice lacking calsarcin-1 are sensitized to calcineurin signaling and show accelerated cardiomyopathy in response to pathological biomechanical stress. *Nature Medicine*, **2004**, 10, 1336-43	50.5	172
81	Control of facial muscle development by MyoR and capsulin. *Science*, **2002**, 298, 2378-81	33.3	167
80	CRISPR-Cpf1 correction of muscular dystrophy mutations in human cardiomyocytes and mice. *Science Advances*, **2017**, 3, e1602814	14.3	142
79	Correction of diverse muscular dystrophy mutations in human engineered heart muscle by single-site genome editing. *Science Advances*, **2018**, 4, eaap9004	14.3	138
78	Single-cut genome editing restores dystrophin expression in a new mouse model of muscular dystrophy. *Science Translational Medicine*, **2017**, 9,	17.5	129
77	Expression of LRH-1 and SF-1 in the mouse ovary: localization in different cell types correlates with differing function. *Molecular and Cellular Endocrinology*, **2003**, 207, 39-45	4.4	125
76	CRISPR-Cas9 corrects Duchenne muscular dystrophy exon 44 deletion mutations in mice and human cells. *Science Advances*, **2019**, 5, eaav4324	14.3	120
75	Essential role of STAT3 in body weight and glucose homeostasis. *Molecular and Cellular Biology*, **2004**, 24, 258-69	4.8	116
74	Cardiac-specific LIM protein FHL2 modifies the hypertrophic response to beta-adrenergic stimulation. *Circulation*, **2001**, 103, 2731-8	16.7	116
73	Neuroglobin, a novel member of the globin family, is expressed in focal regions of the brain. *Journal of Histochemistry and Cytochemistry*, **2002**, 50, 1591-8	3.4	115
72	Mice lacking microRNA 133a develop dynamin 2-dependent centronuclear myopathy. *Journal of Clinical Investigation*, **2011**, 121, 3258-68	15.9	114
71	Requirement of MEF2A, C, and D for skeletal muscle regeneration. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 4109-14	11.5	113
70	Widespread control of calcium signaling by a family of SERCA-inhibiting micropeptides. *Science Signaling*, **2016**, 9, ra119	8.8	110
69	Thymosin beta4 mediated PKC activation is essential to initiate the embryonic coronary developmental program and epicardial progenitor cell activation in adult mice in vivo. *Journal of Molecular and Cellular Cardiology*, **2009**, 46, 728-38	5.8	107
68	Toll-like receptor 4 regulates early endothelial activation during ischemic acute kidney injury. *Kidney International*, **2011**, 79, 288-99	9.9	105
67	Microsomal triglyceride transfer protein expression during mouse development. *Journal of Lipid Research*, **2000**, 41, 532-537	6.3	101

66	Histone deacetylases 1 and 2 regulate autophagy flux and skeletal muscle homeostasis in mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 1649-54	11.5	98
65	TRPC3 channels confer cellular memory of recent neuromuscular activity. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 9387-92	11.5	85
64	A Twist2-dependent progenitor cell contributes to adult skeletal muscle. *Nature Cell Biology*, **2017**, 19, 202-213	23.4	84
63	Protein kinase D1 stimulates MEF2 activity in skeletal muscle and enhances muscle performance. *Molecular and Cellular Biology*, **2008**, 28, 3600-9	4.8	83
62	Loss of muscle-specific RING-finger 3 predisposes the heart to cardiac rupture after myocardial infarction. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 4377-82	11.5	83
61	Calcineurin is necessary for the maintenance but not embryonic development of slow muscle fibers. *Molecular and Cellular Biology*, **2005**, 25, 6629-38	4.8	83
60	The Down syndrome critical region protein RCAN1 regulates long-term potentiation and memory via inhibition of phosphatase signaling. *Journal of Neuroscience*, **2007**, 27, 13161-72	6.6	81
59	Functional and molecular adaptations in skeletal muscle of myoglobin-mutant mice. *American Journal of Physiology - Cell Physiology*, **2001**, 281, C1487-94	5.4	81
58	Regulation of hyaluronan expression during cervical ripening. *Glycobiology*, **2005**, 15, 55-65	5.8	77
57	Centronuclear myopathy in mice lacking a novel muscle-specific protein kinase transcriptionally regulated by MEF2. *Genes and Development*, **2005**, 19, 2066-77	12.6	77
56	Adaptive mechanisms that preserve cardiac function in mice without myoglobin. *Circulation Research*, **2001**, 88, 713-20	15.7	73
55	Mechanical unloading activates FoxO3 to trigger Bnip3-dependent cardiomyocyte atrophy. *Journal of the American Heart Association*, **2013**, 2, e000016	6	72
54	Reactive oxygen species impair sympathetic vasoregulation in skeletal muscle in angiotensin II-dependent hypertension. *Hypertension*, **2006**, 48, 637-43	8.5	68
53	Deletion of hexose-6-phosphate dehydrogenase activates the unfolded protein response pathway and induces skeletal myopathy. *Journal of Biological Chemistry*, **2008**, 283, 8453-61	5.4	65
52	Enhanced CRISPR-Cas9 correction of Duchenne muscular dystrophy in mice by a self-complementary AAV delivery system. *Science Advances*, **2020**, 6, eaay6812	14.3	64
51	Adiponectin protects against development of metabolic disturbances in a PCOS mouse model. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E7187-E7196	11.5	60
50	Transcriptional regulation of aromatase in placenta and ovary. *Journal of Steroid Biochemistry and Molecular Biology*, **2005**, 95, 25-33	5.1	56
49	Normal development and fertility of knockout mice lacking the tumor suppressor gene LRP1b suggest functional compensation by LRP1. *Molecular and Cellular Biology*, **2004**, 24, 3782-93	4.8	53

48	Functional correction of dystrophin actin binding domain mutations by genome editing. *JCI Insight*, **2017**, 2,	9.9	51
47	Myosin regulatory light chain phosphorylation attenuates cardiac hypertrophy. *Journal of Biological Chemistry*, **2008**, 283, 19748-56	5.4	50
46	Stem cells and their derivatives can bypass the requirement of myocardin for smooth muscle gene expression. *Developmental Biology*, **2005**, 288, 502-13	3.1	47
45	Mechanistic basis of neonatal heart regeneration revealed by transcriptome and histone modification profiling. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 18455-18465	11.5	46
44	IRF-1 promotes inflammation early after ischemic acute kidney injury. *Journal of the American Society of Nephrology: JASN*, **2009**, 20, 1544-55	12.7	45
43	Cytoglobin is a stress-responsive hemoprotein expressed in the developing and adult brain. *Journal of Histochemistry and Cytochemistry*, **2006**, 54, 1349-61	3.4	45
42	NOD2 Suppresses Colorectal Tumorigenesis via Downregulation of the TLR Pathways. *Cell Reports*, **2017**, 19, 2756-2770	10.6	43
41	Myocyte enhancer factor 2 and class II histone deacetylases control a gender-specific pathway of cardioprotection mediated by the estrogen receptor. *Circulation Research*, **2010**, 106, 155-65	15.7	42
40	Alterations in slow-twitch muscle phenotype in transgenic mice overexpressing the Ca2+ buffering protein parvalbumin. *Journal of Physiology*, **2003**, 547, 649-63	3.9	42
39	Hair growth defects in Insig-deficient mice caused by cholesterol precursor accumulation and reversed by simvastatin. *Journal of Investigative Dermatology*, **2010**, 130, 1237-48	4.3	41
38	Sustained hemodynamic stress disrupts normal circadian rhythms in calcineurin-dependent signaling and protein phosphorylation in the heart. *Circulation Research*, **2011**, 108, 437-45	15.7	39
37	Severe myopathy in mice lacking the MEF2/SRF-dependent gene leiomodin-3. *Journal of Clinical Investigation*, **2015**, 125, 1569-78	15.9	39
36	Characterization of mouse short-chain aldehyde reductase (SCALD), an enzyme regulated by sterol regulatory element-binding proteins. *Journal of Biological Chemistry*, **2003**, 278, 32380-9	5.4	38
35	Amino acid substitution in NPC1 that abolishes cholesterol binding reproduces phenotype of complete NPC1 deficiency in mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 15330-5	11.5	37
34	Identification of acyloxyacyl hydrolase, a lipopolysaccharide-detoxifying enzyme, in the murine urinary tract. *Infection and Immunity*, **2004**, 72, 3171-8	3.7	37
33	Cytoglobin modulates myogenic progenitor cell viability and muscle regeneration. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E129-38	11.5	36
32	Basal Suppression of the Sonic Hedgehog Pathway by the G-Protein-Coupled Receptor Gpr161 Restricts Medulloblastoma Pathogenesis. *Cell Reports*, **2018**, 22, 1169-1184	10.6	33
31	Fusogenic micropeptide Myomixer is essential for satellite cell fusion and muscle regeneration. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 3864-3869	11.5	33

30	The G protein-coupled receptor Gpr161 regulates forelimb formation, limb patterning and skeletal morphogenesis in a primary cilium-dependent manner. *Development (Cambridge)*, **2018**, 145,	6.6	32
29	Functional characterization of mouse RDH11 as a retinol dehydrogenase involved in dark adaptation in vivo. *Journal of Biological Chemistry*, **2005**, 280, 20413-20	5.4	32
28	Disruption of PPT2 in mice causes an unusual lysosomal storage disorder with neurovisceral features. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 12325-30	11.5	31
27	Autoimmune epididymoorchitis is essential to the pathogenesis of male-specific spondylarthritis in HLA-B27-transgenic rats. *Arthritis and Rheumatism*, **2012**, 64, 2518-28		28
26	Fli1 acts downstream of Etv2 to govern cell survival and vascular homeostasis via positive autoregulation. *Circulation Research*, **2014**, 114, 1690-9	15.7	26
25	Diminished cardiac fibrosis in heart failure is associated with altered ventricular arrhythmia phenotype. *Journal of Cardiovascular Electrophysiology*, **2010**, 21, 1031-7	2.7	26
24	Correction of Three Prominent Mutations in Mouse and Human Models of Duchenne Muscular Dystrophy by Single-Cut Genome Editing. *Molecular Therapy*, **2020**, 28, 2044-2055	11.7	25
23	Tumor physiological changes during hypofractionated stereotactic body radiation therapy assessed using multi-parametric magnetic resonance imaging. *Oncotarget*, **2017**, 8, 37464-37477	3.3	25
22	Ataxia and Purkinje cell degeneration in mice lacking the CAMTA1 transcription factor. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 11521-6	11.5	23
21	Mutation of mouse Samd4 causes leanness, myopathy, uncoupled mitochondrial respiration, and dysregulated mTORC1 signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 7367-72	11.5	21
20	Trans-cranial opening of the blood-brain barrier in targeted regions using a stereotaxic brain atlas and focused ultrasound energy. *Journal of Therapeutic Ultrasound*, **2014**, 2, 13		21
19	Hypercalcemia of malignancy with simultaneous elevation in serum parathyroid hormone--related peptide and 1,25-dihydroxyvitamin D in a patient with metastatic renal cell carcinoma. *Endocrine Practice*, **2009**, 15, 234-9	3.2	21
18	In vivo non-invasive monitoring of dystrophin correction in a new Duchenne muscular dystrophy reporter mouse. *Nature Communications*, **2019**, 10, 4537	17.4	20
17	Estrogen-related receptor □serves a role in blood pressure homeostasis during pregnancy. *Molecular Endocrinology*, **2014**, 28, 965-75		16
16	High-Phosphate Diet Induces Exercise Intolerance and Impairs Fatty Acid Metabolism in Mice. *Circulation*, **2019**, 139, 1422-1434	16.7	16
15	Tulp3 Regulates Renal Cystogenesis by Trafficking of Cystoproteins to Cilia. *Current Biology*, **2019**, 29, 790-802.e5	6.3	15
14	Sec13 Regulates Expression of Specific Immune Factors Involved in Inflammation In Vivo. *Scientific Reports*, **2015**, 5, 17655	4.9	12
13	Derepression of sonic hedgehog signaling upon Gpr161 deletion unravels forebrain and ventricular abnormalities. *Developmental Biology*, **2019**, 450, 47-62	3.1	11

12	Linking spermatid ribonucleic acid (RNA) binding protein and retrogene diversity to reproductive success. *Molecular and Cellular Proteomics*, **2013**, 12, 3221-36	7.6	11
11	Laryngeal aging and acoustic changes in male rat ultrasonic vocalizations. *Developmental Psychobiology*, **2013**, 55, 818-28	3	10
10	A reevaluation of CD22 expression in human lung cancer. *Cancer Research*, **2014**, 74, 263-71	10.1	10
9	Characterizing cardiac donation after circulatory death: implications for perfusion preservation. *Annals of Thoracic Surgery*, **2014**, 98, 2107-13; discussion 2113-4	2.7	9
8	Posttraumatic Chondrocyte Apoptosis in the Murine Xiphoid. *Cartilage*, **2013**, 4, 345-53	3	7
7	TRIM7 inhibits enterovirus replication and promotes emergence of a viral variant with increased pathogenicity. *Cell*, **2021**, 184, 3410-3425.e17	56.2	7
6	Activation of Autophagic Flux Blunts Cardiac Ischemia/Reperfusion Injury. *Circulation Research*, **2021**, 129, 435-450	15.7	6
5	A myocardin-adjacent lncRNA balances SRF-dependent gene transcription in the heart. *Genes and Development*, **2021**, 35, 835-840	12.6	4
4	The nuclear envelope protein Net39 is essential for muscle nuclear integrity and chromatin organization. *Nature Communications*, **2021**, 12, 690	17.4	4
3	Successful transplantation in canines after long-term coronary sinus machine perfusion preservation of donor hearts. *Journal of Heart and Lung Transplantation*, **2016**, 35, 1031-6	5.8	1
2	Reduced parathyroid hormone-stimulated 1,25-dihydroxyvitamin d production in vitamin d sufficient postmenoposual women with low bone mass and idiopathic secondary hyperparathyroidism. *Endocrine Practice*, **2013**, 19, 91-9	3.2	1
1	Metabolic and cardiovascular effects of chronic mild hyperuricemia in rodents. *Journal of Investigative Medicine*, **2018**, 66, 1037-1044	2.9	0