John M Shelton

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3807779/publications.pdf

Version: 2024-02-01

120 papers	22,180 citations	11608 70 h-index	18075 120 g-index
121 all docs	121 docs citations	121 times ranked	31432 citing authors

#	Article	IF	Citations
1	Reeler/Disabled-like Disruption of Neuronal Migration in Knockout Mice Lacking the VLDL Receptor and ApoE Receptor 2. Cell, 1999, 97, 689-701.	13.5	1,194
2	A Micropeptide Encoded by a Putative Long Noncoding RNA Regulates Muscle Performance. Cell, 2015, 160, 595-606.	13.5	980
3	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, 3920-3925.	3.3	945
4	Postnatal genome editing partially restores dystrophin expression in a mouse model of muscular dystrophy. Science, 2016, 351, 400-403.	6.0	804
5	Hippo pathway effector Yap promotes cardiac regeneration. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13839-13844.	3.3	735
6	Histone Deacetylase 4 Controls Chondrocyte Hypertrophy during Skeletogenesis. Cell, 2004, 119, 555-566.	13.5	710
7	Cardiac autophagy is a maladaptive response to hemodynamic stress. Journal of Clinical Investigation, 2007, 117, 1782-1793.	3.9	672
8	Transcriptional coactivator PGC-1Î± controls the energy state and contractile function of cardiac muscle. Cell Metabolism, 2005, 1, 259-271.	7.2	608
9	Prevention of muscular dystrophy in mice by CRISPR/Cas9â€“mediated editing of germline DNA. Science, 2014, 345, 1184-1188.	6.0	595
10	Cardiac Failure in Transgenic Mice With Myocardial Expression of Tumor Necrosis Factor-Î±. Circulation, 1998, 97, 1375-1381.	1.6	580
11	Cytochrome c Deficiency Causes Embryonic Lethality and Attenuates Stress-Induced Apoptosis. Cell, 2000, 101, 389-399.	13.5	462
12	Activated glycogen synthase-3Â suppresses cardiac hypertrophy in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 907-912.	3.3	446
13	Myomaker is a membrane activator of myoblast fusion and muscle formation. Nature, 2013, 499, 301-305.	13.7	440
14	Multiple organ pathology, metabolic abnormalities and impaired homeostasis of reactive oxygen species in Epas1â^'/â^' mice. Nature Genetics, 2003, 35, 331-340.	9.4	438
15	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, 25616-25624.	1.6	417
16	Gene editing restores dystrophin expression in a canine model of Duchenne muscular dystrophy. Science, 2018, 362, 86-91.	6.0	405
17	MEF2C Transcription Factor Controls Chondrocyte Hypertrophy and Bone Development. Developmental Cell, 2007, 12, 377-389.	3.1	401
18	Myogenin and Class II HDACs Control Neurogenic Muscle Atrophy by Inducing E3 Ubiquitin Ligases. Cell, 2010, 143, 35-45.	13.5	377

#	Article	IF	Citations
19	Histone deacetylase degradation andMEF2 activation promote the formation of slow-twitch myofibers. Journal of Clinical Investigation, 2007, 117, 2459-2467.	3.9	360
20	Stimulation of Slow Skeletal Muscle Fiber Gene Expression by Calcineurin in Vivo. Journal of Biological Chemistry, 2000, 275, 4545-4548.	1.6	357
21	Elevated TCA cycle function in the pathology of diet-induced hepatic insulin resistance and fatty liver. Journal of Lipid Research, 2012, 53, 1080-1092.	2.0	320
22	Mitochondrial metabolism mediates oxidative stress and inflammation in fatty liver. Journal of Clinical Investigation, 2015, 125, 4447-4462.	3.9	320
23	Transcription of the non-coding RNA upperhand controls Hand2 expression and heart development. Nature, 2016, 539, 433-436.	13.7	301
24	Control of muscle formation by the fusogenic micropeptide myomixer. Science, 2017, 356, 323-327.	6.0	301
25	Hypoxia fate mapping identifies cycling cardiomyocytes in the adult heart. Nature, 2015, 523, 226-230.	13.7	284
26	microRNA-206 promotes skeletal muscle regeneration and delays progression of Duchenne muscular dystrophy in mice. Journal of Clinical Investigation, 2012, 122, 2054-2065.	3.9	280
27	Metabolic stressâ€“induced activation of FoxO1 triggers diabetic cardiomyopathy in mice. Journal of Clinical Investigation, 2012, 122, 1109-1118.	3.9	274
28	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, 17300-17305.	3.3	259
29	A role for the apoptosis inhibitory factor AIM/SpÎ±/Api6 in atherosclerosis development. Cell Metabolism, 2005, 1, 201-213.	7.2	257
30	Klotho and Phosphate Are Modulators of Pathologic Uremic Cardiac Remodeling. Journal of the American Society of Nephrology: JASN, 2015, 26, 1290-1302.	3.0	231
31	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, 2392-2397.	3.3	230
32	Maladaptive Role of IL-6 in Ischemic Acute Renal Failure. Journal of the American Society of Nephrology: JASN, 2005, 16, 3315-3325.	3.0	221
33	Intracellular Protein Aggregation Is a Proximal Trigger of Cardiomyocyte Autophagy. Circulation, 2008, 117, 3070-3078.	1.6	218
34	Requirement of protein kinase D1 for pathological cardiac remodeling. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3059-3063.	3.3	216
35	Myosin accumulation and striated muscle myopathy result from the loss of muscle RING finger 1 and 3. Journal of Clinical Investigation, 2007, 117, 2486-2495.	3.9	211
36	Autophagy is an adaptive response in desmin-related cardiomyopathy. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9745-9750.	3.3	209

#	Article	IF	Citations
37	HIF-2Î± regulates murine hematopoietic development in an erythropoietin-dependent manner. Blood, 2005, 105, 3133-3140.	0.6	203
38	Correction of diverse muscular dystrophy mutations in human engineered heart muscle by single-site genome editing. Science Advances, 2018, 4, eaap9004.	4.7	200
39	Mice lacking calsarcin-1 are sensitized to calcineurin signaling and show accelerated cardiomyopathy in response to pathological biomechanical stress. Nature Medicine, 2004, 10, 1336-1343.	15.2	191
40	CRISPR-Cas9 corrects Duchenne muscular dystrophy exon 44 deletion mutations in mice and human cells. Science Advances, 2019, 5, eaav4324.	4.7	190
41	CRISPR-Cpf1 correction of muscular dystrophy mutations in human cardiomyocytes and mice. Science Advances, 2017, 3, e1602814.	4.7	189
42	Single-cut genome editing restores dystrophin expression in a new mouse model of muscular dystrophy. Science Translational Medicine, 2017, 9, .	5.8	188
43	Control of Facial Muscle Development by MyoR and Capsulin. Science, 2002, 298, 2378-2381.	6.0	185
44	Widespread control of calcium signaling by a family of SERCA-inhibiting micropeptides. Science Signaling, 2016, 9, ra119.	1.6	168
45	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, 4109-4114.	3.3	162
46	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.	1.6	140
47	Mice lacking microRNA 133a develop dynamin 2â€“dependent centronuclear myopathy. Journal of Clinical Investigation, 2011, 121, 3258-3268.	3.9	138
48	Cardiac-Specific LIM Protein FHL2 Modifies the Hypertrophic Response to Î²-Adrenergic Stimulation. Circulation, 2001, 103, 2731-2738.	1.6	136
49	Thymosin Î²4 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, 728-738.	0.9	128
50	Essential Role of STAT3 in Body Weight and Glucose Homeostasis. Molecular and Cellular Biology, 2004, 24, 258-269.	1.1	127
51	Neuroglobin, A Novel Member of the Globin Family, Is Expressed in Focal Regions of the Brain. Journal of Histochemistry and Cytochemistry, 2002, 50, 1591-1598.	1.3	120
52	A Twist2-dependent progenitor cell contributes to adult skeletal muscle. Nature Cell Biology, 2017, 19, 202-213.	4.6	118
53	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, 1649-1654.	3.3	117
54	Toll-like receptor 4 regulates early endothelial activation during ischemic acute kidney injury. Kidney International, 2011, 79, 288-299.	2.6	114

#	Article	IF	Citations
55	Enhanced CRISPR-Cas9 correction of Duchenne muscular dystrophy in mice by a self-complementary AAV delivery system. Science Advances, 2020, 6, eaay6812.	4.7	114
56	Microsomal triglyceride transfer protein expression during mouse development. Journal of Lipid Research, 2000, 41, 532-537.	2.0	109
57	Protein Kinase D1 Stimulates MEF2 Activity in Skeletal Muscle and Enhances Muscle Performance. Molecular and Cellular Biology, 2008, 28, 3600-3609.	1.1	100
58	The Down Syndrome Critical Region Protein RCAN1 Regulates Long-Term Potentiation and Memory via Inhibition of Phosphatase Signaling. Journal of Neuroscience, 2007, 27, 13161-13172.	1.7	98
59	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.	3.3	94
60	Centronuclear myopathy in mice lacking a novel muscle-specific protein kinase transcriptionally regulated by MEF2. Genes and Development, 2005, 19, 2066-2077.	2.7	93
61	Functional and molecular adaptations in skeletal muscle of myoglobin-mutant mice. American Journal of Physiology - Cell Physiology, 2001, 281, C1487-C1494.	2.1	91
62	TRPC3 channels confer cellular memory of recent neuromuscular activity. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9387-9392.	3.3	91
63	Regulation of hyaluronan expression during cervical ripening. Glycobiology, 2004, 15, 55-65.	1.3	91
64	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.	3.3	91
65	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, 4377-4382.	3.3	90
66	Mechanical Unloading Activates FoxO3 to Trigger Bnip3â€Dependent Cardiomyocyte Atrophy. Journal of the American Heart Association, 2013, 2, e000016.	1.6	90
67	Calcineurin Is Necessary for the Maintenance but Not Embryonic Development of Slow Muscle Fibers. Molecular and Cellular Biology, 2005, 25, 6629-6638.	1.1	88
68	Adaptive Mechanisms That Preserve Cardiac Function in Mice Without Myoglobin. Circulation Research, 2001, 88, 713-720.	2.0	86
69	Functional correction of dystrophin actin binding domain mutations by genome editing. JCI Insight, 2017, 2, .	2.3	80
70	Deletion of Hexose-6-phosphate Dehydrogenase Activates the Unfolded Protein Response Pathway and Induces Skeletal Myopathy. Journal of Biological Chemistry, 2008, 283, 8453-8461.	1.6	75
71	Reactive Oxygen Species Impair Sympathetic Vasoregulation in Skeletal Muscle in Angiotensin Iiâ€“Dependent Hypertension. Hypertension, 2006, 48, 637-643.	1.3	71
72	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.	3.3	71

#	Article	IF	Citations
73	NOD2 Suppresses Colorectal Tumorigenesis via Downregulation of the TLR Pathways. Cell Reports, 2017, 19, 2756-2770.	2.9	69
74	Normal Development and Fertility of Knockout Mice Lacking the Tumor Suppressor Gene LRP1b Suggest Functional Compensation by LRP1. Molecular and Cellular Biology, 2004, 24, 3782-3793.	1.1	67
75	Transcriptional regulation of aromatase in placenta and ovary. Journal of Steroid Biochemistry and Molecular Biology, 2005, 95, 25-33.	1.2	64
76	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, 11521-11526.	3.3	62
77	Myosin Regulatory Light Chain Phosphorylation Attenuates Cardiac Hypertrophy. Journal of Biological Chemistry, 2008, 283, 19748-19756.	1.6	57
78	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.	3.3	55
79	Cytoglobin Is a Stress-responsive Hemoprotein Expressed in the Developing and Adult Brain. Journal of Histochemistry and Cytochemistry, 2006, 54, 1349-1361.	1.3	54
80	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, 155-165.	2.0	54
81	IRF-1 Promotes Inflammation Early after Ischemic Acute Kidney Injury. Journal of the American Society of Nephrology: JASN, 2009, 20, 1544-1555.	3.0	51
82	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.	3.7	51
83	Stem cells and their derivatives can bypass the requirement of myocardin for smooth muscle gene expression. Developmental Biology, 2005, 288, 502-513.	0.9	49
84	Basal Suppression of the Sonic Hedgehog Pathway by the G-Protein-Coupled Receptor Gpr161 Restricts Medulloblastoma Pathogenesis. Cell Reports, 2018, 22, 1169-1184.	2.9	49
85	Severe myopathy in mice lacking the MEF2/SRF-dependent gene leiomodin-3. Journal of Clinical Investigation, 2015, 125, 1569-1578.	3.9	48
86	The G-protein-coupled receptor Gpr161 regulates forelimb formation, limb patterning and skeletal morphogenesis in a primary cilium-dependent manner. Development (Cambridge), 2017, 145, .	1.2	47
87	Hair Growth Defects in Insig-Deficient Mice Caused by Cholesterol Precursor Accumulation and Reversed by Simvastatin. Journal of Investigative Dermatology, 2010, 130, 1237-1248.	0.3	46
88	Sustained Hemodynamic Stress Disrupts Normal Circadian Rhythms in Calcineurin-Dependent Signaling and Protein Phosphorylation in the Heart. Circulation Research, 2011, 108, 437-445.	2.0	46
89	Characterization of Mouse Short-chain Aldehyde Reductase (SCALD), an Enzyme Regulated by Sterol Regulatory Element-binding Proteins. Journal of Biological Chemistry, 2003, 278, 32380-32389.	1.6	45
90	Identification of Acyloxyacyl Hydrolase, a Lipopolysaccharide- Detoxifying Enzyme, in the Murine Urinary Tract. Infection and Immunity, 2004, 72, 3171-3178.	1.0	45

#	Article	IF	Citations
91	Alterations in Slowâ€Twitch Muscle Phenotype in Transgenic Mice Overexpressing the Ca 2+ Buffering Protein Parvalbumin. Journal of Physiology, 2003, 547, 649-663.	1.3	44
92	Autoimmune epididymoorchitis is essential to the pathogenesis of maleâ€specific spondylarthritis in HLAâ€“B27â€“transgenic rats. Arthritis and Rheumatism, 2012, 64, 2518-2528.	6.7	43
93	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, 15330-15335.	3.3	42
94	Tulp3 Regulates Renal Cystogenesis by Trafficking of Cystoproteins to Cilia. Current Biology, 2019, 29, 790-802.e5.	1.8	39
95	High-Phosphate Diet Induces Exercise Intolerance and Impairs Fatty Acid Metabolism in Mice. Circulation, 2019, 139, 1422-1434.	1.6	36
96	Functional Characterization of Mouse RDH11 as a Retinol Dehydrogenase Involved in Dark Adaptation in Vivo. Journal of Biological Chemistry, 2005, 280, 20413-20420.	1.6	35
97	TRIM7 inhibits enterovirus replication and promotes emergence of a viral variant with increased pathogenicity. Cell, 2021, 184, 3410-3425.e17.	13.5	35
98	Fli1 Acts Downstream of Etv2 to Govern Cell Survival and Vascular Homeostasis via Positive Autoregulation. Circulation Research, 2014, 114, 1690-1699.	2.0	34
99	Diminished Cardiac Fibrosis in Heart Failure is Associated with Altered Ventricular Arrhythmia Phenotype. Journal of Cardiovascular Electrophysiology, 2010, 21, 1031-1037.	0.8	32
100	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, 7367-7372.	3.3	32
101	Trans-cranial opening of the blood-brain barrier in targeted regions using astereotaxic brain atlas and focused ultrasound energy. Journal of Therapeutic Ultrasound, 2014, 2, 13.	2.2	32
102	In vivo non-invasive monitoring of dystrophin correction in a new Duchenne muscular dystrophy reporter mouse. Nature Communications, 2019, 10, 4537.	5.8	32
103	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, 12325-12330.	3.3	31
104	Tumor physiological changes during hypofractionated stereotactic body radiation therapy assessed using multi-parametric magnetic resonance imaging. Oncotarget, 2017, 8, 37464-37477.	0.8	31
105	Sec13 Regulates Expression of Specific Immune Factors Involved in Inflammation In Vivo. Scientific Reports, 2015, 5, 17655.	1.6	29
106	Activation of Autophagic Flux Blunts Cardiac Ischemia/Reperfusion Injury. Circulation Research, 2021, 129, 435-450.	2.0	28
107	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, 234-239.	1.1	26
108	Derepression of sonic hedgehog signaling upon Gpr161 deletion unravels forebrain and ventricular abnormalities. Developmental Biology, 2019, 450, 47-62.	0.9	22

#	Article	IF	Citations
109	Estrogen-Related Receptor Î³ Serves a Role in Blood Pressure Homeostasis During Pregnancy. Molecular Endocrinology, 2014, 28, 965-975.	3.7	21
110	Linking Spermatid Ribonucleic Acid (RNA) Binding Protein and Retrogene Diversity to Reproductive Success. Molecular and Cellular Proteomics, 2013, 12, 3221-3236.	2.5	17
111	A Reevaluation of CD22 Expression in Human Lung Cancer. Cancer Research, 2014, 74, 263-271.	0.4	17
112	The nuclear envelope protein Net39 is essential for muscle nuclear integrity and chromatin organization. Nature Communications, 2021, 12, 690.	5.8	17
113	Laryngeal aging and acoustic changes in male rat ultrasonic vocalizations. Developmental Psychobiology, 2013, 55, 818-828.	0.9	16
114	Characterizing Cardiac Donation After Circulatory Death: Implications for Perfusion Preservation. Annals of Thoracic Surgery, 2014, 98, 2107-2114.	0.7	11
115	A myocardin-adjacent lncRNA balances SRF-dependent gene transcription in the heart. Genes and Development, 2021, 35, 835-840.	2.7	10
116	Posttraumatic Chondrocyte Apoptosis in the Murine Xiphoid. Cartilage, 2013, 4, 345-353.	1.4	7
117	Successful transplantation in canines after long-term coronary sinus machine perfusion preservation of donor hearts. Journal of Heart and Lung Transplantation, 2016, 35, 1031-1036.	0.3	2
118	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, 91-99.	1.1	1
119	Metabolic and cardiovascular effects of chronic mild hyperuricemia in rodents. Journal of Investigative Medicine, 2018, 66, 1037-1044.	0.7	1
120	Abstract 16974: Augmentation of Vasoactive Intestinal Peptide Signaling Prevents the Development of Duchenne Muscular Dystrophy-Associated Cardiomyopathy Through Inhibition of NF-Î²B Signaling. Circulation, 2020, 142, .	1.6	0