Noah Weisleder

List of Publications by Year
in descending order

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70 papers	4,563 citations	94433 37 h-index	102487 66 g-index
70 all docs	70 docs citations	70 times ranked	4418 citing authors

#	Article	IF	Citations
1	MG53 nucleates assembly of cell membrane repair machinery. Nature Cell Biology, 2009, 11, 56-64.	10.3	396
2	Desmin Cytoskeleton Linked to Muscle Mitochondrial Distribution and Respiratory Function. Journal of Cell Biology, 2000, 150, 1283-1298.	5.2	330
3	Membrane Repair Defects in Muscular Dystrophy Are Linked to Altered Interaction between MG53, Caveolin-3, and Dysferlin. Journal of Biological Chemistry, 2009, 284, 15894-15902.	3.4	227
4	MG53 Constitutes a Primary Determinant of Cardiac Ischemic Preconditioning. Circulation, 2010, 121, 2565-2574.	1.6	169
5	Mutations in JPH2-encoded junctophilin-2 associated with hypertrophic cardiomyopathy in humans. Journal of Molecular and Cellular Cardiology, 2007, 42, 1026-1035.	1.9	165
6	Recombinant MG53 Protein Modulates Therapeutic Cell Membrane Repair in Treatment of Muscular Dystrophy. Science Translational Medicine, 2012, 4, 139ra85.	12.4	165
7	Uncontrolled calcium sparks act as a dystrophic signal for mammalian skeletal muscle. Nature Cell Biology, 2005, 7, 525-530.	10.3	151
8	TRIC channels are essential for Ca2+ handling in intracellular stores. Nature, 2007, 448, 78-82.	27.8	149
9	Cardioprotection of Ischemia/Reperfusion Injury by Cholesterol-Dependent MG53-Mediated Membrane Repair. Circulation Research, 2010, 107, 76-83.	4.5	128
10	Bcl-2 overexpression corrects mitochondrial defects and ameliorates inherited desmin null cardiomyopathy. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 769-774.	7.1	120
11	Muscle aging is associated with compromised Ca2+ spark signaling and segregated intracellular Ca2+ release. Journal of Cell Biology, 2006, 174, 639-645.	5.2	120
12	Structural and Functional Roles of Desmin in Mouse Skeletal Muscle during Passive Deformation. Biophysical Journal, 2004, 86, 2993-3008.	0.5	112
13	Treatment of acute lung injury by targeting MG53-mediated cell membrane repair. Nature Communications, 2014, 5, 4387.	12.8	100
14	MG53 Regulates Membrane Budding and Exocytosis in Muscle Cells. Journal of Biological Chemistry, 2009, 284, 3314-3322.	3.4	99
15	Poloxamer 188 (P188) as a Membrane Resealing Reagent in Biomedical Applications. Recent Patents on Biotechnology, 2012, 6, 200-211.	0.8	97
16	Junctophilin-2 Expression Silencing Causes Cardiocyte Hypertrophy and Abnormal Intracellular Calcium-Handling. Circulation: Heart Failure, 2011, 4, 214-223.	3.9	92
17	Cardioprotection of recombinant human MG53 protein in a porcine model of ischemia and reperfusion injury. Journal of Molecular and Cellular Cardiology, 2015, 80, 10-19.	1.9	91
18	Azumolene Inhibits a Component of Store-operated Calcium Entry Coupled to the Skeletal Muscle Ryanodine Receptor. Journal of Biological Chemistry, 2006, 281, 33477-33486.	3.4	87

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19	Polymerase Transcriptase Release Factor (PTRF) Anchors MG53 Protein to Cell Injury Site for Initiation of Membrane Repair. Journal of Biological Chemistry, 2011, 286, 12820-12824.	3.4	87
20	Uncoupling Store-Operated Ca2+ Entry and Altered Ca2+ Release from Sarcoplasmic Reticulum through Silencing of Junctophilin Genes. Biophysical Journal, 2006, 90, 4418-4427.	0.5	85
21	Plasma Membrane Repair: A Central Process for Maintaining Cellular Homeostasis. Physiology, 2015, 30, 438-448.	3.1	85
22	Enhancing Muscle Membrane Repair by Gene Delivery of MG53 Ameliorates Muscular Dystrophy and Heart Failure in Î´-Sarcoglycan-deficient Hamsters. Molecular Therapy, 2012, 20, 727-735.	8.2	82
23	Mitochondrial Calcium Uptake Regulates Rapid Calcium Transients in Skeletal Muscle during Excitation-Contraction (E-C) Coupling. Journal of Biological Chemistry, 2011, 286, 32436-32443.	3.4	80
24	Compromised storeâ€operated Ca²⁺ entry in aged skeletal muscle. Aging Cell, 2008, 7, 561-568.	6.7	77
25	Dysferlin, Annexin A1, and Mitsugumin 53 Are Upregulated in Muscular Dystrophy and Localize to Longitudinal Tubules of the T-System With Stretch. Journal of Neuropathology and Experimental Neurology, 2011, 70, 302-313.	1.7	77
26	Enhanced resistance to fatigue and altered calcium handling properties of sarcalumenin knockout mice. Physiological Genomics, 2005, 23, 72-78.	2.3	73
27	Redox-dependent oligomerization through a leucine zipper motif is essential for MG53-mediated cell membrane repair. American Journal of Physiology - Cell Physiology, 2011, 301, C106-C114.	4.6	67
28	Nonmuscle myosin IIA facilitates vesicle trafficking for MG53â€mediated cell membrane repair. FASEB Journal, 2012, 26, 1875-1883.	0.5	64
29	Orai1 Mediates Exacerbated Ca2+ Entry in Dystrophic Skeletal Muscle. PLoS ONE, 2012, 7, e49862.	2.5	61
30	Immuno-proteomic approach to excitationâ€“contraction coupling in skeletal and cardiac muscle: Molecular insights revealed by the mitsugumins. Cell Calcium, 2008, 43, 1-8.	2.4	60
31	Alterations in the heart mitochondrial proteome in a desmin null heart failure model. Journal of Molecular and Cellular Cardiology, 2005, 38, 461-474.	1.9	57
32	Mitsugumin 53 (MG53) facilitates vesicle trafficking in striated muscle to contribute to cell membrane repair. Communicative and Integrative Biology, 2009, 2, 225-226.	1.4	56
33	Store-Operated Ca2+ Entry (SOCE) Contributes to Normal Skeletal Muscle Contractility in young but not in aged skeletal muscle. Aging, 2011, 3, 621-634.	3.1	53
34	Disrupted Membrane Structure and Intracellular Ca2+ Signaling in Adult Skeletal Muscle with Acute Knockdown of Bin1. PLoS ONE, 2011, 6, e25740.	2.5	47
35	Store-operated calcium entry is present in HL-1 cardiomyocytes and contributes to resting calcium. Biochemical and Biophysical Research Communications, 2011, 416, 45-50.	2.1	46
36	S165F mutation of junctophilin 2 affects Ca2+ signalling in skeletal muscle. Biochemical Journal, 2010, 427, 125-134.	3.7	45

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37	Increased Store-Operated Ca2+ Entry in Skeletal Muscle with Reduced Calsequestrin-1 Expression. Biophysical Journal, 2010, 99, 1556-1564.	0.5	43
38	A missense mutation in desmin tail domain linked to human dilated cardiomyopathy promotes cleavage of the head domain and abolishes its Zâ€disc localization. FASEB Journal, 2008, 22, 3318-3327.	0.5	40
39	Type 1 Inositol (1,4,5)-Trisphosphate Receptor Activates Ryanodine Receptor 1 to Mediate Calcium Spark Signaling in Adult Mammalian Skeletal Muscle. Journal of Biological Chemistry, 2013, 288, 2103-2109.	3.4	39
40	Novel excitation-contraction coupling related genes reveal aspects of muscle weakness beyond atrophyâ€"new hopes for treatment of musculoskeletal diseases. Frontiers in Physiology, 2014, 5, 37.	2.8	37
41	Treatment with Recombinant Human MG53 Protein Increases Membrane Integrity in a Mouse Model of Limb Girdle Muscular Dystrophy 2B. Molecular Therapy, 2017, 25, 2360-2371.	8.2	37
42	Altered Ca2+ sparks in aging skeletal and cardiac muscle. Ageing Research Reviews, 2008, 7, 177-188.	10.9	33
43	The tail-anchoring domain of Bfl1 and HCCS1 targets mitochondrial membrane permeability to induce apoptosis. Journal of Cell Science, 2007, 120, 2912-2923.	2.0	31
44	TRIM Proteins in Therapeutic Membrane Repair of Muscular Dystrophy. JAMA Neurology, 2013, 70, 928.	9.0	31
45	Repression of Cardiac Phospholamban Gene Expression Is Mediated by Thyroid Hormone Receptor-Î±1 and Involves Targeted Covalent Histone Modifications. Endocrinology, 2010, 151, 2946-2956.	2.8	29
46	Cardiomyocyte-specific desmin rescue of desmin null cardiomyopathy excludes vascular involvement. Journal of Molecular and Cellular Cardiology, 2004, 36, 121-128.	1.9	27
47	Amphipathic Tail-anchoring Peptide and Bcl-2 Homology Domain-3 (BH3) Peptides from Bcl-2 Family Proteins Induce Apoptosis through Different Mechanisms. Journal of Biological Chemistry, 2011, 286, 9038-9048.	3.4	27
48	Systemic ablation of RyR3 alters Ca2+ spark signaling in adult skeletal muscle. Cell Calcium, 2007, 42, 548-555.	2.4	21
49	A versatile singleâ€plasmid system for tissueâ€specific and inducible control of gene expression in transgenic mice. FASEB Journal, 2011, 25, 2638-2649.	0.5	21
50	Visualization of MG53-mediated Cell Membrane Repair Using in vivo and in vitro Systems. Journal of Visualized Experiments, 2011, , .	0.3	17
51	Renin-angiotensin-aldosterone system inhibitors improve membrane stability and change gene-expression profiles in dystrophic skeletal muscles. American Journal of Physiology - Cell Physiology, 2017, 312, C155-C168.	4.6	17
52	Ca2+ sparks as a plastic signal for skeletal muscle health, aging, and dystrophy. Acta Pharmacologica Sinica, 2006, 27, 791-798.	6.1	16
53	Multiple poloxamers increase plasma membrane repair capacity in muscle and nonmuscle cells. American Journal of Physiology - Cell Physiology, 2020, 318, C253-C262.	4.6	16
54	Investigating genetic drivers of dermatomyositis pathogenesis using meta-analysis. Heliyon, 2020, 6, e04866.	3.2	10

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55	Autoantibodies targeting TRIM72 compromise membrane repair and contribute to inflammatory myopathy. Journal of Clinical Investigation, 2020, 130, 4440-4455.	8.2	10
56	Assessment of Calcium Sparks in Intact Skeletal Muscle Fibers. Journal of Visualized Experiments, 2014, , e50898.	0.3	9
57	High-Throughput Microplate-Based Assay to Monitor Plasma Membrane Wounding and Repair. Frontiers in Cellular and Infection Microbiology, 2017, 7, 305.	3.9	9
58	Non-contrast estimation of diffuse myocardial fibrosis with dual energy CT: A phantom study. Journal of Cardiovascular Computed Tomography, 2018, 12, 74-80.	1.3	9
59	Detection of Calcium Sparks in Intact and Permeabilized Skeletal Muscle Fibers. Methods in Molecular Biology, 2012, 798, 395-410.	0.9	9
60	Enhancing membrane repair increases regeneration in a sciatic injury model. PLoS ONE, 2020, 15, e0231194.	2.5	7
61	A Dual Mode Pulsed Electro-Magnetic Cell Stimulator Produces Acceleration of Myogenic Differentiation. Recent Patents on Biotechnology, 2013, 7, 71-81.	0.8	6
62	The C2 domains of dysferlin: roles in membrane localization, Ca²⁺ signalling and sarcolemmal repair. Journal of Physiology, 2022, 600, 1953-1968.	2.9	6
63	Targeted deletion of Kcne3 impairs skeletal muscle function in mice. FASEB Journal, 2017, 31, 2937-2947.	0.5	2
64	Expression levels of sarcolemmal membrane repair proteins following prolonged exercise training in mice. Indian Journal of Biochemistry and Biophysics, 2013, 50, 428-35.	0.0	2
65	Store-Operated Ca2+ Entry in Muscle Physiology. Current Chemical Biology, 2007, 1, 87-95.	0.5	1
66	Reduced Sarcolemmal Membrane Repair Exacerbates Striated Muscle Pathology in a Mouse Model of Duchenne Muscular Dystrophy. Cells, 2022, 11, 1417.	4.1	1
67	Modulating Cytoskeletal Structure And Cellular Signaling To Target Neuron Cell Membrane Repair. FASEB Journal, 2018, 32, 864.8.	0.5	0
68	Recombinant Human MG53 Mediated Protection against Injury to Neuronal Cells. FASEB Journal, 2019, 33, 848.2.	0.5	0
69	Analysis of osmotic stress induced Ca2+ spark termination in mammalian skeletal muscle. Indian Journal of Biochemistry and Biophysics, 2013, 50, 411-8.	0.0	0
70	Contrasting Effects of Age on Muscle Contractility in Male and Female Rats. FASEB Journal, 2022, 36, .	0.5	0