Noah L Weisleder

List of Publications by Year
in descending order

53 papers	2,563 citations	279798 23 h-index	289244 40 g-index
54 all docs	54 docs citations	54 times ranked	2659 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	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
3	MG53 Constitutes a Primary Determinant of Cardiac Ischemic Preconditioning. Circulation, 2010, 121, 2565-2574.	1.6	169
4	Recombinant MG53 Protein Modulates Therapeutic Cell Membrane Repair in Treatment of Muscular Dystrophy. Science Translational Medicine, 2012, 4, 139ra85.	12.4	165
5	Cardioprotection of Ischemia/Reperfusion Injury by Cholesterol-Dependent MG53-Mediated Membrane Repair. Circulation Research, 2010, 107, 76-83.	4.5	128
6	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
7	Treatment of acute lung injury by targeting MG53-mediated cell membrane repair. Nature Communications, 2014, 5, 4387.	12.8	100
8	MG53 Regulates Membrane Budding and Exocytosis in Muscle Cells. Journal of Biological Chemistry, 2009, 284, 3314-3322.	3.4	99
9	Modeling Human Cancer-induced Cachexia. Cell Reports, 2019, 28, 1612-1622.e4.	6.4	94
10	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
11	Plasma Membrane Repair: A Central Process for Maintaining Cellular Homeostasis. Physiology, 2015, 30, 438-448.	3.1	85
12	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
13	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
14	Nonmuscle myosin IIA facilitates vesicle trafficking for MG53â€mediated cell membrane repair. FASEB Journal, 2012, 26, 1875-1883.	0.5	64
15	A Murine Model of Myocardial Ischemia-reperfusion Injury through Ligation of the Left Anterior Descending Artery. Journal of Visualized Experiments, 2014, , .	0.3	63
16	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
17	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
18	Sarcolipin overexpression improves muscle energetics and reduces fatigue. Journal of Applied Physiology, 2015, 118, 1050-1058.	2.5	55

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19	Conserved structural and functional aspects of the tripartite motif gene family point towards therapeutic applications in multiple diseases. , 2018, 185, 12-25.		51
20	Protein phosphatase 2A regulatory subunit B56Î± limits phosphatase activity in the heart. Science Signaling, 2015, 8, ra72.	3.6	45
21	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
22	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
23	Altered Ca2+ sparks in aging skeletal and cardiac muscle. Ageing Research Reviews, 2008, 7, 177-188.	10.9	33
24	Enhancement of Cardiac Store Operated Calcium Entry (SOCE) within Novel Intercalated Disk Microdomains in Arrhythmic Disease. Scientific Reports, 2019, 9, 10179.	3.3	33
25	Systemic ablation of RyR3 alters Ca2+ spark signaling in adult skeletal muscle. Cell Calcium, 2007, 42, 548-555.	2.4	21
26	Visualization of MG53-mediated Cell Membrane Repair Using in vivo and in vitro Systems. Journal of Visualized Experiments, 2011, , .	0.3	17
27	Role of phosphatidylinositol-4,5-bisphosphate 3-kinase signaling in vesicular trafficking. Life Sciences, 2016, 167, 39-45.	4.3	17
28	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
29	Ca2+ sparks as a plastic signal for skeletal muscle health, aging, and dystrophy. Acta Pharmacologica Sinica, 2006, 27, 791-798.	6.1	16
30	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
31	A Murine Model of Myocardial Ischemiaâ€"Reperfusion Injury. Methods in Molecular Biology, 2018, 1717, 145-153.	0.9	15
32	Investigating genetic drivers of dermatomyositis pathogenesis using meta-analysis. Heliyon, 2020, 6, e04866.	3.2	10
33	Autoantibodies targeting TRIM72 compromise membrane repair and contribute to inflammatory myopathy. Journal of Clinical Investigation, 2020, 130, 4440-4455.	8.2	10
34	Assessment of Calcium Sparks in Intact Skeletal Muscle Fibers. Journal of Visualized Experiments, 2014, , e50898.	0.3	9
35	High-Throughput Microplate-Based Assay to Monitor Plasma Membrane Wounding and Repair. Frontiers in Cellular and Infection Microbiology, 2017, 7, 305.	3.9	9
36	Detection of Calcium Sparks in Intact and Permeabilized Skeletal Muscle Fibers. Methods in Molecular Biology, 2012, 798, 395-410.	0.9	9

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37	Physiological acclimatization in Hawaiian corals following a 22-month shift in baseline seawater temperature and pH. Scientific Reports, 2022, 12, 3712.	3.3	9
38	Environmental gradients drive physiological variation in Hawaiian corals. Coral Reefs, 2021, 40, 1505-1523.	2.2	8
39	Enhancing membrane repair increases regeneration in a sciatic injury model. PLoS ONE, 2020, 15, e0231194.	2.5	7
40	Compromised storeâ€operated Ca entry (SOCE) in aged skeletal muscle. FASEB Journal, 2007, 21, A1206.	0.5	1
41	Reduced Sarcolemmal Membrane Repair Exacerbates Striated Muscle Pathology in a Mouse Model of Duchenne Muscular Dystrophy. Cells, 2022, 11, 1417.	4.1	1
42	Acute Knockdown of MG29 in Mouse Muscle Cells Reveals Signaling Mechanisms Associated with Polyunsaturated Fatty Acid (PUFA) â€" Implications for Sarcopenia. FASEB Journal, 2021, 35, .	0.5	0
43	Development of Novel Engineered Recombinant Proteins that Improve Cell Membrane Repair Response. FASEB Journal, 2021, 35, .	0.5	0
44	Walkingâ€mediated upregulation of follistatinâ€like 3 expression is insufficient to increase muscle contractile force. FASEB Journal, 2015, 29, 992.2.	0.5	0
45	Modulating Membrane Repair Facilitates Therapeutic Cell Membrane Resealing in Striated Muscle. FASEB Journal, 2015, 29, 801.1.	0.5	0
46	The Effects of Simulated Intermittent Altitude on Mucosal Immunity. FASEB Journal, 2015, 29, 859.2.	0.5	0
47	Tripartite motif family proteins mediate vesicular trafficking during membrane repair in striated muscle. FASEB Journal, 2015, 29, 801.2.	0.5	0
48	Multiple Poloxamers Improve Membrane Repair Capacity in a Model of Duchenne Muscular Dystrophy. FASEB Journal, 2019, 33, 868.12.	0.5	0
49	Key Facilitator Proteins that Mediate Sarcolemma Membrane Repair have Potential as Therapeutics for Muscle Disease and Injury. FASEB Journal, 2019, 33, 701.1.	0.5	0
50	Acute Knockdown of MG29 Alters Skeletal Muscle Cells Differentiation and Leads to Cellular Atrophy. FASEB Journal, 2020, 34, 1-1.	0.5	0
51	Enhancing Membrane Repair in Neuronal Cell Types as a Potential Therapeutic for Neurodegenerative Diseases. FASEB Journal, 2022, 36, .	0.5	0
52	Key Facilitator Proteins that Mediate Sarcolemma Membrane Repair have Potential as Therapeutics for Muscle Disease and Injury. FASEB Journal, 2022, 36, .	0.5	0
53	The Differential Contribution of TRIM72/MG53 Protein Domains in Plasma Membrane Repair. FASEB Journal, 2022, 36, .	0.5	0