

# Glenn A Walter

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

2,561  
citations

172207

29  
h-index

197535

49  
g-index

74  
all docs

74  
docs citations

74  
times ranked

2762  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantifying fat replacement of muscle by quantitative MRI in muscular dystrophy. <i>Journal of Neurology</i> , 2017, 264, 2053-2067.	1.8	150
2	Examination of effects of corticosteroids on skeletal muscles of boys with DMD using MRI and MRS. <i>Neurology</i> , 2014, 83, 974-980.	1.5	131
3	Multicenter prospective longitudinal study of magnetic resonance biomarkers in a large duchenne muscular dystrophy cohort. <i>Annals of Neurology</i> , 2016, 79, 535-547.	2.8	131
4	<sup>23</sup> Na mapping provides multiple approaches for the characterization of muscle involvement in neuromuscular diseases: a cross-sectional study of lower leg muscles in 5-15-year-old boys with Duchenne muscular dystrophy. <i>NMR in Biomedicine</i> , 2013, 26, 320-328.	1.6	122
5	Magnetic Resonance Imaging and Spectroscopy Assessment of Lower Extremity Skeletal Muscles in Boys with Duchenne Muscular Dystrophy: A Multicenter Cross Sectional Study. <i>PLoS ONE</i> , 2014, 9, e106435.	1.1	94
6	In vivo ATP synthesis rates in single human muscles during high intensity exercise. <i>Journal of Physiology</i> , 1999, 519, 901-910.	1.3	86
7	Chemical shift-based MRI to measure fat fractions in dystrophic skeletal muscle. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 8-19.	1.9	86
8	Relationships of thigh muscle contractile and non-contractile tissue with function, strength, and age in boys with Duchenne muscular dystrophy. <i>Neuromuscular Disorders</i> , 2012, 22, 16-25.	0.3	85
9	Skeletal Muscles of Ambulant Children with Duchenne Muscular Dystrophy: Validation of Multicenter Study of Evaluation with MR Imaging and MR Spectroscopy. <i>Radiology</i> , 2013, 269, 198-207.	3.6	80
10	<sup>13</sup> C NMR Metabolomics: Applications at Natural Abundance. <i>Analytical Chemistry</i> , 2014, 86, 9242-9250.	3.2	75
11	Age-Related Differences in Lower-Limb Muscle Cross-Sectional Area and Torque Production in Boys With Duchenne Muscular Dystrophy. <i>Archives of Physical Medicine and Rehabilitation</i> , 2010, 91, 1051-1058.	0.5	72
12	Use of Skeletal Muscle MRI in Diagnosis and Monitoring Disease Progression in Duchenne Muscular Dystrophy. <i>Physical Medicine and Rehabilitation Clinics of North America</i> , 2012, 23, 1-10.	0.7	69
13	Changes in muscle T2 and tissue damage after downhill running in <i>mdx</i> Mice. <i>Muscle and Nerve</i> , 2011, 43, 878-886.	1.0	62
14	Dysferlin and Myoferlin Regulate Transverse Tubule Formation and Glycerol Sensitivity. <i>American Journal of Pathology</i> , 2014, 184, 248-259.	1.9	61
15	Noninvasive monitoring of stem cell transfer for muscle disorders. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 273-277.	1.9	58
16	Noninvasive monitoring of gene correction in dystrophic muscle. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 1369-1376.	1.9	57
17	MR biomarkers predict clinical function in Duchenne muscular dystrophy. <i>Neurology</i> , 2020, 94, e897-e909.	1.5	55
18	Skeletal muscle magnetic resonance biomarkers correlate with function and sentinel events in Duchenne muscular dystrophy. <i>PLoS ONE</i> , 2018, 13, e0194283.	1.1	52

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19	A model of muscle atrophy using cast immobilization in mice. <i>Muscle and Nerve</i> , 2005, 32, 672-674.	1.0	50
20	Modeling disease trajectory in Duchenne muscular dystrophy. <i>Neurology</i> , 2020, 94, e1622-e1633.	1.5	49
21	Spectral quantitation by principal component analysis using complex singular value decomposition. <i>Magnetic Resonance in Medicine</i> , 1999, 41, 450-455.	1.9	48
22	Long-Term Systemic Myostatin Inhibition via Liver-Targeted Gene Transfer in Golden Retriever Muscular Dystrophy. <i>Human Gene Therapy</i> , 2011, 22, 1499-1509.	1.4	47
23	Exploration of New Contrasts, Targets, and MR Imaging and Spectroscopy Techniques for Neuromuscular Disease – A Workshop Report of Working Group 3 of the Biomedicine and Molecular Biosciences COST Action BM1304 MYO-MRI. <i>Journal of Neuromuscular Diseases</i> , 2019, 6, 1-30.	1.1	46
24	Long-term Skeletal Muscle Protection After Gene Transfer in a Mouse Model of LGMD-2D. <i>Molecular Therapy</i> , 2007, 15, 1775-1781.	3.7	45
25	Correcting neuromuscular deficits with gene therapy in Pompe disease. <i>Annals of Neurology</i> , 2015, 78, 222-234.	2.8	45
26	Longitudinal timed function tests in Duchenne muscular dystrophy: ImagingDMD cohort natural history. <i>Muscle and Nerve</i> , 2018, 58, 631-638.	1.0	41
27	Magnetic Resonance Assessment of Hypertrophic and Pseudo-Hypertrophic Changes in Lower Leg Muscles of Boys with Duchenne Muscular Dystrophy and Their Relationship to Functional Measurements. <i>PLoS ONE</i> , 2015, 10, e0128915.	1.1	39
28	Assessment of intramuscular lipid and metabolites of the lower leg using magnetic resonance spectroscopy in boys with Duchenne muscular dystrophy. <i>Neuromuscular Disorders</i> , 2014, 24, 574-582.	0.3	36
29	Noninvasive monitoring of muscle damage during reloading following limb disuse. <i>Muscle and Nerve</i> , 2005, 32, 605-612.	1.0	35
30	Texture analysis for muscular dystrophy classification in MRI with improved class activation mapping. <i>Pattern Recognition</i> , 2019, 86, 368-375.	5.1	33
31	Safety, feasibility, and efficacy of strengthening exercise in Duchenne muscular dystrophy. <i>Muscle and Nerve</i> , 2021, 63, 320-326.	1.0	32
32	<i>lacZ</i> as a genetic reporter for real-time MRI. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 745-753.	1.9	30
33	Upper and Lower Extremities in Duchenne Muscular Dystrophy Evaluated with Quantitative MRI and Proton MR Spectroscopy in a Multicenter Cohort. <i>Radiology</i> , 2020, 295, 616-625.	3.6	28
34	MEF2c-Dependent Downregulation of Myocilin Mediates Cancer-Induced Muscle Wasting and Associates with Cachexia in Patients with Cancer. <i>Cancer Research</i> , 2020, 80, 1861-1874.	0.4	27
35	Changes in muscle T2 relaxation properties following spinal cord injury and locomotor training. <i>European Journal of Applied Physiology</i> , 2006, 97, 355-361.	1.2	23
36	MRI/MRS evaluation of a female carrier of Duchenne muscular dystrophy. <i>Neuromuscular Disorders</i> , 2012, 22, S111-S121.	0.3	23

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37	Hindlimb Muscle Morphology and Function in a New Atrophy Model Combining Spinal Cord Injury and Cast Immobilization. <i>Journal of Neurotrauma</i> , 2013, 30, 227-235.	1.7	23
38	Imaging respiratory muscle quality and function in Duchenne muscular dystrophy. <i>Journal of Neurology</i> , 2019, 266, 2752-2763.	1.8	23
39	Chemosensitizing AML cells by targeting bone marrow endothelial cells. <i>Experimental Hematology</i> , 2016, 44, 363-377.e5.	0.2	22
40	Magnetic Resonance Monitoring of Disease Progression in mdx Mice on Different Genetic Backgrounds. <i>American Journal of Pathology</i> , 2017, 187, 2060-2070.	1.9	21
41	Age-related $T_{2^*}$ changes in hindlimb muscles of <i>mdx</i> mice. <i>Muscle and Nerve</i> , 2016, 53, 84-90.	1.0	20
42	MRI quantifies neuromuscular disease progression. <i>Lancet Neurology</i> , The, 2016, 15, 26-28.	4.9	20
43	Disease-modifying effects of edasalonexent, an NF- $\kappa$ B inhibitor, in young boys with Duchenne muscular dystrophy: Results of the MoveDMD phase 2 and open label extension trial. <i>Neuromuscular Disorders</i> , 2021, 31, 385-396.	0.3	20
44	Multi-slice MRI reveals heterogeneity in disease distribution along the length of muscle in Duchenne muscular dystrophy. <i>Acta Myologica</i> , 2017, 36, 151-162.	1.5	20
45	Functional heart recovery in an adult mammal, the spiny mouse. <i>International Journal of Cardiology</i> , 2021, 338, 196-203.	0.8	19
46	Fe doped CdTeS magnetic quantum dots for bioimaging. <i>Journal of Materials Chemistry B</i> , 2013, 1, 6312.	2.9	18
47	Skeletal muscle magnetic resonance imaging in <i>Pompe</i> disease. <i>Muscle and Nerve</i> , 2021, 63, 640-650.	1.0	18
48	Magnetic Resonance Imaging Is Sensitive to Pathological Amelioration in a Model for Laminin-Deficient Congenital Muscular Dystrophy (MDC1A). <i>PLoS ONE</i> , 2015, 10, e0138254.	1.1	14
49	Effects of PDE5 inhibition on dystrophic muscle following an acute bout of downhill running and endurance training. <i>Journal of Applied Physiology</i> , 2019, 126, 1737-1745.	1.2	13
50	Conference report on contractures in musculoskeletal and neurological conditions. <i>Muscle and Nerve</i> , 2020, 61, 740-744.	1.0	13
51	Age-dependent changes in metabolite profile and lipid saturation in dystrophic mice. <i>NMR in Biomedicine</i> , 2019, 32, e4075.	1.6	12
52	Diaphragm weakness and proteomics (global and redox) modifications in heart failure with reduced ejection fraction in rats. <i>Journal of Molecular and Cellular Cardiology</i> , 2020, 139, 238-249.	0.9	10
53	$^{13}C/^{31}P$ MRS Metabolic Biomarkers of Disease Progression and Response to AAV Delivery of hGAA in a Mouse Model of Pompe Disease. <i>Molecular Therapy - Methods and Clinical Development</i> , 2017, 7, 42-49.	1.8	9
54	Longitudinal Evaluation of Muscle Composition Using Magnetic Resonance in 4 Boys With Duchenne Muscular Dystrophy: Case Series. <i>Physical Therapy</i> , 2015, 95, 978-988.	1.1	8

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55	Magnetic Resonance Microscopy (MRM) of Single Mammalian Myofibers and Myonuclei. <i>Scientific Reports</i> , 2017, 7, 39496.	1.6	8
56	Lower Extremity Muscle Involvement in the Intermediate and Bethlem Myopathy Forms of COL6-Related Dystrophy and Duchenne Muscular Dystrophy: A Cross-Sectional Study. <i>Journal of Neuromuscular Diseases</i> , 2020, 7, 407-417.	1.1	7
57	Magnetic Resonance Imaging Studies in Duchenne Muscular Dystrophy: Linking Findings to the Physical Therapy Clinic. <i>Physical Therapy</i> , 2020, 100, 2035-2048.	1.1	6
58	Characterizing Expiratory Respiratory Muscle Degeneration in Duchenne Muscular Dystrophy Using MRI. <i>Chest</i> , 2022, 161, 753-763.	0.4	6
59	Near-Infrared Optical Imaging Noninvasively Detects Acutely Damaged Muscle. <i>American Journal of Pathology</i> , 2016, 186, 2692-2700.	1.9	5
60	Magnetic resonance imaging characteristics of injection site reactions after long-term subcutaneous delivery of drisapersen. <i>European Journal of Pediatrics</i> , 2019, 178, 777-778.	1.3	4
61	Magnetization Transfer Ratio in Lower Limbs of Late Onset Pompe Patients Correlates With Intramuscular Fat Fraction and Muscle Function Tests. <i>Frontiers in Neurology</i> , 2021, 12, 634766.	1.1	4
62	Contrast-Enhanced Near-Infrared Optical Imaging Detects Exacerbation and Amelioration of Murine Muscular Dystrophy. <i>Molecular Imaging</i> , 2017, 16, 153601211773243.	0.7	3
63	Duchenne Regulatory Science Consortium Meeting on Disease Progression Modeling for Duchenne Muscular Dystrophy. <i>PLOS Currents</i> , 2017, 9, .	1.4	3
64	Leg muscle MRI in identical twin boys with duchenne muscular dystrophy. <i>Muscle and Nerve</i> , 2018, 58, E1.	1.0	2
65	Abstract 14166: Cardiac Function is Protected From Ischemic Injury in African Spiny Mice. <i>Circulation</i> , 2015, 132, .	1.6	2
66	Step Activity Monitoring in Boys with Duchenne Muscular Dystrophy and its Correlation with Magnetic Resonance Measures and Functional Performance. <i>Journal of Neuromuscular Diseases</i> , 2022, , 1-14.	1.1	2
67	Characterizing Enrollment in Observational Studies of Duchenne Muscular Dystrophy by Race and Ethnicity. <i>Journal of Neuromuscular Diseases</i> , 2020, 7, 167-173.	1.1	1
68	Post-contractile blood oxygenation level-dependent (BOLD) response in Duchenne muscular dystrophy. <i>Journal of Applied Physiology</i> , 2021, 131, 83-94.	1.2	1
69	Effects of muscle damage on 31 phosphorus magnetic resonance spectroscopy indices of energetic status and sarcolemma integrity in young mdx mice. <i>NMR in Biomedicine</i> , 2021, , e4659.	1.6	1
70	Developing an MRI based method for analyzing differences in blood vessel diameter and brain tissue perfusion in hypertension. <i>FASEB Journal</i> , 2008, 22, 1210.21.	0.2	0
71	Skeletal muscle deficits following spinal cord injury in a new rat model. <i>FASEB Journal</i> , 2011, 25, 1105.15.	0.2	0
72	Noninvasive measurement of hindlimb muscle cross sectional area in a new rodent model of incomplete spinal cord injury. <i>FASEB Journal</i> , 2011, 25, 1105.17.	0.2	0

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73	MRI and DTI characterization of spinal cord severe contusion injury in the rat. FASEB Journal, 2012, 26, 920.9.	0.2	0