

# Richard M Lovering

## List of Publications by Year in descending order

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101  
papers

2,933  
citations

186265

28  
h-index

197818

49  
g-index

101  
all docs

101  
docs citations

101  
times ranked

3979  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fibroadipogenic progenitor cell response peaks prior to progressive fatty infiltration after rotator cuff tendon tear. <i>Journal of Orthopaedic Research</i> , 2022, , .	2.3	0
2	Human pluripotent stem cell-derived myogenic progenitors undergo maturation to quiescent satellite cells upon engraftment. <i>Cell Stem Cell</i> , 2022, 29, 610-619.e5.	11.1	10
3	Myofibers sarcolemma mechanical properties are affected by the isolation method. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
4	Inhibition of YAP signaling improves recovery in injured skeletal muscle. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
5	CaMKII oxidation is a critical performance/disease trade-off acquired at the dawn of vertebrate evolution. <i>Nature Communications</i> , 2021, 12, 3175.	12.8	19
6	The Neuromuscular Junction: Roles in Aging and Neuromuscular Disease. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8058.	4.1	27
7	Age-dependent changes in nuclear-cytoplasmic signaling in skeletal muscle. <i>Experimental Gerontology</i> , 2021, 150, 111338.	2.8	10
8	<i>Mss51</i> deletion increases endurance and ameliorates histopathology in the <i>mdx</i> mouse model of Duchenne muscular dystrophy. <i>FASEB Journal</i> , 2021, 35, e21276.	0.5	4
9	The Nucleoskeleton: Crossroad of Mechanotransduction in Skeletal Muscle. <i>Frontiers in Physiology</i> , 2021, 12, 724010.	2.8	4
10	Keratin 18 is an integral part of the intermediate filament network in murine skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2020, 318, C215-C224.	4.6	13
11	Alterations of neuromuscular junctions in Duchenne muscular dystrophy. <i>Neuroscience Letters</i> , 2020, 737, 135304.	2.1	18
12	Muscle phenotype of a rat model of Duchenne muscular dystrophy. <i>Muscle and Nerve</i> , 2020, 62, 757-761.	2.2	5
13	Abnormalities in Brain and Muscle Microstructure and Neurochemistry of the DMD Rat Measured by in vivo Diffusion Tensor Imaging and High Resolution Localized 1H MRS. <i>Frontiers in Neuroscience</i> , 2020, 14, 739.	2.8	1
14	Engineering 3D skeletal muscle primed for neuromuscular regeneration following volumetric muscle loss. <i>Biomaterials</i> , 2020, 255, 120154.	11.4	31
15	A comparative assessment of lengthening followed by end-to-end repair and isograft repair of chronically injured peripheral nerves. <i>Experimental Neurology</i> , 2020, 331, 113328.	4.1	6
16	Exosomes Isolated From Platelet-Rich Plasma and Mesenchymal Stem Cells Promote Recovery of Function After Muscle Injury. <i>American Journal of Sports Medicine</i> , 2020, 48, 2277-2286.	4.2	48
17	Duchenne muscular dystrophy hiPSC-derived myoblast drug screen identifies compounds that ameliorate disease in mdx mice. <i>JCI Insight</i> , 2020, 5, .	5.0	22
18	Effects of myofiber isolation technique on sarcolemma biomechanics. <i>BioTechniques</i> , 2020, 69, 388-391.	1.8	3

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19	Age-Dependent Changes in Nuclear Mechanotransduction as a Driver of Sarcopenia. <i>Innovation in Aging</i> , 2020, 4, 129-129.	0.1	0
20	Nerve lengthening and subsequent end-to-end repair yield more favourable outcomes compared with autograft repair of rat sciatic nerve defects. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019, 13, 2266-2278.	2.7	11
21	Differential YAP nuclear signaling in healthy and dystrophic skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2019, 317, C48-C57.	4.6	22
22	Non-invasive Assessment of Dorsiflexor Muscle Function in Mice. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	6
23	Induced in vivo knockdown of the Brca1 gene in skeletal muscle results in skeletal muscle weakness. <i>Journal of Physiology</i> , 2019, 597, 869-887.	2.9	9
24	Mss51 deletion enhances muscle metabolism and glucose homeostasis in mice. <i>JCI Insight</i> , 2019, 4, .	5.0	16
25	Engineering functional and histological regeneration of vascularized skeletal muscle. <i>Biomaterials</i> , 2018, 164, 70-79.	11.4	78
26	Imaging Analysis of the Neuromuscular Junction in Dystrophic Muscle. <i>Methods in Molecular Biology</i> , 2018, 1687, 57-72.	0.9	12
27	Induced Cre-mediated knockdown of Brca1 in skeletal muscle reduces mitochondrial respiration and prevents glucose intolerance in adult mice on a high-fat diet. <i>FASEB Journal</i> , 2018, 32, 3070-3084.	0.5	16
28	Fatty Infiltration Is a Prognostic Marker of Muscle Function After Rotator Cuff Tear. <i>American Journal of Sports Medicine</i> , 2018, 46, 2161-2169.	4.2	53
29	Use of Mesenchymal Stem Cells to Treat Muscle Strain Injuries. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 676.	0.4	0
30	Assessment of Muscle Injury Using Diffusion Kurtosis MRI and 1 H MRS. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 425.	0.4	0
31	Non-invasive assessment of muscle injury in healthy and dystrophic animals with electrical impedance myography. <i>Muscle and Nerve</i> , 2017, 56, E85-E94.	2.2	21
32	Altered nuclear dynamics in MDX myofibers. <i>Journal of Applied Physiology</i> , 2017, 122, 470-481.	2.5	42
33	mTOR regulates peripheral nerve response to tensile strain. <i>Journal of Neurophysiology</i> , 2017, 117, 2075-2084.	1.8	21
34	Superparamagnetic Iron Oxide Nanoparticles in Musculoskeletal Biology. <i>Tissue Engineering - Part B: Reviews</i> , 2017, 23, 373-385.	4.8	25
35	Impaired contractile function of the supraspinatus in the acute period following a rotator cuff tear. <i>BMC Musculoskeletal Disorders</i> , 2017, 18, 436.	1.9	9
36	Rotator Cuff Tear Consequent to Glenohumeral Dislocation. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2016, 46, 708-708.	3.5	1

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37	In Vivo Assessment of Muscle Contractility in Animal Studies. <i>Methods in Molecular Biology</i> , 2016, 1460, 293-307.	0.9	21
38	Novel multi-functional fluid flow device for studying cellular mechanotransduction. <i>Journal of Biomechanics</i> , 2016, 49, 4173-4179.	2.1	18
39	NAD <sup>+</sup> repletion improves muscle function in muscular dystrophy and counters global PARylation. <i>Science Translational Medicine</i> , 2016, 8, 361ra139.	12.4	208
40	A method to test contractility of the supraspinatus muscle in mouse, rat, and rabbit. <i>Journal of Applied Physiology</i> , 2016, 120, 310-317.	2.5	7
41	Sarcolemmal Biomechanics and Excitability in Malformed Muscle Fibers of Dystrophic Mice. <i>Biophysical Journal</i> , 2015, 108, 590a.	0.5	0
42	Alternating bipolar field stimulation identifies muscle fibers with defective excitability but maintained local Ca <sup>2+</sup> signals and contraction. <i>Skeletal Muscle</i> , 2015, 6, 6.	4.2	11
43	Pre- and postsynaptic changes in the neuromuscular junction in dystrophic mice. <i>Frontiers in Physiology</i> , 2015, 6, 252.	2.8	74
44	Disruption of action potential and calcium signaling properties in malformed myofibers from dystrophin-deficient mice. <i>Physiological Reports</i> , 2015, 3, e12366.	1.7	21
45	Site-Specific Targeting of Platelet-Rich Plasma via Superparamagnetic Nanoparticles. <i>Orthopaedic Journal of Sports Medicine</i> , 2015, 3, 232596711456618.	1.7	7
46	Myofiber Damage Precedes Macrophage Infiltration after in Vivo Injury in Dysferlin-Deficient A/J Mouse Skeletal Muscle. <i>American Journal of Pathology</i> , 2015, 185, 1686-1698.	3.8	30
47	Myopathic changes in murine skeletal muscle lacking synemin. <i>American Journal of Physiology - Cell Physiology</i> , 2015, 308, C448-C462.	4.6	36
48	SERCA1 overexpression minimizes skeletal muscle damage in dystrophic mouse models. <i>American Journal of Physiology - Cell Physiology</i> , 2015, 308, C699-C709.	4.6	55
49	Abnormalities in brain structure and biochemistry associated with mdx mice measured by in vivo MRI and high resolution localized 1H MRS. <i>Neuromuscular Disorders</i> , 2015, 25, 764-772.	0.6	15
50	Recovery of altered neuromuscular junction morphology and muscle function in mdx mice after injury. <i>Cellular and Molecular Life Sciences</i> , 2015, 72, 153-164.	5.4	60
51	Critical Role of Intracellular RyR1 Calcium Release Channels in Skeletal Muscle Function and Disease. <i>Frontiers in Physiology</i> , 2015, 6, 420.	2.8	57
52	Reduction of NMJ Occupancy in Dystrophic Muscle. <i>FASEB Journal</i> , 2015, 29, 947.11.	0.5	0
53	Characterization of skeletal muscle in the synemin knock-out mouse. , 2014, , .		1
54	Eccentric exercise in aging and diseased skeletal muscle: good or bad?. <i>Journal of Applied Physiology</i> , 2014, 116, 1439-1445.	2.5	52

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55	Genetic silencing of Nrf2 enhances X-ROS in dysferlin-deficient muscle. <i>Frontiers in Physiology</i> , 2014, 5, 57.	2.8	25
56	Ganglion Cyst in the Tarsal Tunnel. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2014, 44, 40-40.	3.5	1
57	Tetanus toxin preserves skeletal muscle contractile force and size during limb immobilization. <i>Muscle and Nerve</i> , 2014, 50, 759-766.	2.2	2
58	A stepwise procedure to test contractility and susceptibility to injury for the rodent quadriceps muscle. <i>Journal of Biological Methods</i> , 2014, 1, e8.	0.6	19
59	Temporal changes in magnetic resonance imaging in the mdx mouse. <i>BMC Research Notes</i> , 2013, 6, 262.	1.4	29
60	Effects of <i>in vivo</i> injury on the neuromuscular junction in healthy and dystrophic muscles. <i>Journal of Physiology</i> , 2013, 591, 559-570.	2.9	94
61	Architecture of healthy and dystrophic muscles detected by optical coherence tomography. <i>Muscle and Nerve</i> , 2013, 47, 588-590.	2.2	23
62	Structural and functional evaluation of branched myofibers lacking intermediate filaments. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 303, C224-C232.	4.6	26
63	Genetic deletion of <i>trkB.T1</i> increases neuromuscular function. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C141-C153.	4.6	32
64	Influences of Desmin and Keratin 19 on Passive Biomechanical Properties of Mouse Skeletal Muscle. <i>Journal of Biomedicine and Biotechnology</i> , 2012, 2012, 1-12.	3.0	18
65	Early metabolic changes measured by <sup>1</sup> H MRS in healthy and dystrophic muscle after injury. <i>Journal of Applied Physiology</i> , 2012, 113, 808-816.	2.5	18
66	An <i>in vivo</i> rodent model of contraction-induced injury in the quadriceps muscle. <i>Injury</i> , 2012, 43, 788-793.	1.7	21
67	Repeated Muscle Injury as a Presumptive Trigger for Chronic Masticatory Muscle Pain. <i>Pain Research and Treatment</i> , 2011, 2011, 1-13.	1.7	16
68	An <i>in vivo</i> Rodent Model of Contraction-induced Injury and Non-invasive Monitoring of Recovery. <i>Journal of Visualized Experiments</i> , 2011, . .	0.3	22
69	Determinants of the Repeated-Bout Effect After Lengthening Contractions. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2011, 90, 816-824.	1.4	12
70	Unmasking Potential Intracellular Roles For Dysferlin through Improved Immunolabeling Methods. <i>Journal of Histochemistry and Cytochemistry</i> , 2011, 59, 964-975.	2.5	27
71	Diffusion Tensor MRI to Assess Damage in Healthy and Dystrophic Skeletal Muscle after Lengthening Contractions. <i>Journal of Biomedicine and Biotechnology</i> , 2011, 2011, 1-10.	3.0	68
72	Physiology, structure, and susceptibility to injury of skeletal muscle in mice lacking keratin 19-based and desmin-based intermediate filaments. <i>American Journal of Physiology - Cell Physiology</i> , 2011, 300, C803-C813.	4.6	44

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73	Extensive mononuclear infiltration and myogenesis characterize recovery of dysferlin-null skeletal muscle from contraction-induced injuries. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 298, C298-C312.	4.6	51
74	Incomplete Activation of the IGF-1 Signaling Pathway after High-frequency Electrically Stimulated Skeletal Muscle Contractions. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 374.	0.4	0
75	High-frequency electrically stimulated skeletal muscle contractions increase p70 <sup>s6k</sup> phosphorylation independent of known IGF-1 sensitive signaling pathways. <i>FEBS Letters</i> , 2010, 584, 2891-2895.	2.8	27
76	S100A1 promotes action potential-initiated calcium release flux and force production in skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 299, C891-C902.	4.6	22
77	Changes in contraction-induced phosphorylation of AMP-activated protein kinase and mitogen-activated protein kinases in skeletal muscle after ovariectomy. <i>Journal of Cellular Biochemistry</i> , 2009, 107, 171-178.	2.6	27
78	Location of myofiber damage in skeletal muscle after lengthening contractions. <i>Muscle and Nerve</i> , 2009, 40, 589-594.	2.2	31
79	Gait analysis of locomotory impairment in rats before and after neuromuscular injury. <i>Journal of Neuroscience Methods</i> , 2009, 181, 249-256.	2.5	11
80	Use of Autologous Platelet-rich Plasma to Treat Muscle Strain Injuries. <i>American Journal of Sports Medicine</i> , 2009, 37, 1135-1142.	4.2	251
81	Deletion Of Triadin Results In Marked Alterations In Tetanic Contraction And Global Calcium Handling. <i>Biophysical Journal</i> , 2009, 96, 237a.	0.5	0
82	Malformed mdx myofibers have normal cytoskeletal architecture yet altered EC coupling and stress-induced Ca <sup>2+</sup> signaling. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 297, C571-C580.	4.6	84
83	Location Of Damage In Skeletal Muscle After Lengthening Contractions. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 348.	0.4	0
84	Architecture and fiber type of the pyramidalis muscle. <i>Anatomical Science International</i> , 2008, 83, 294-297.	1.0	31
85	Fiber Type Composition of Cadaveric Human Rotator Cuff Muscles. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2008, 38, 674-680.	3.5	35
86	Impaired recovery of dysferlin-null skeletal muscle after contraction-induced injury in vivo. <i>NeuroReport</i> , 2008, 19, 1579-1584.	1.2	55
87	Treatment of Muscle Injury with Autologous Platelet-Rich Plasma. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, S162.	0.4	0
88	Dysferlin Deficiency Inhibits Sarcolemmal Repair and Delays Functional Recovery of Skeletal Muscle Injured In Vivo. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, S242.	0.4	0
89	Absence of keratin 19 in mice causes skeletal myopathy with mitochondrial and sarcolemmal reorganization. <i>Journal of Cell Science</i> , 2007, 120, 3999-4008.	2.0	83
90	Intermediate filament-like protein syncoilin in normal and myopathic striated muscle. <i>Neuromuscular Disorders</i> , 2007, 17, 970-979.	0.6	19

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91	Recovery of Function in Skeletal Muscle Following 2 Different Contraction-Induced Injuries. Archives of Physical Medicine and Rehabilitation, 2007, 88, 617-625.	0.9	59
92	Bex1 knock out mice show altered skeletal muscle regeneration. Biochemical and Biophysical Research Communications, 2007, 363, 405-410.	2.1	33
93	Identification of skeletal muscle mutations in tail snips from neonatal mice using immunohistochemistry. BioTechniques, 2007, 42, 702-704.	1.8	1
94	Leptomeningeal plaques, a "common" finding. Clinical Anatomy, 2006, 19, 696-697.	2.7	0
95	Dexamethasone and Recovery of Contractile Tension after a Muscle Injury. Clinical Orthopaedics and Related Research, 2005, 439, 235-242.	1.5	27
96	The Muscular Dystrophies: From Genes to Therapies. Physical Therapy, 2005, 85, 1372-1388.	2.4	83
97	The contribution of contractile pre-activation to loss of function after a single lengthening contraction. Journal of Biomechanics, 2005, 38, 1501-1507.	2.1	40
98	Effect of testosterone on the female anterior cruciate ligament. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 289, R15-R22.	1.8	40
99	The muscular dystrophies: from genes to therapies. Physical Therapy, 2005, 85, 1372-88.	2.4	30
100	Fiber length variability within the flexor carpi ulnaris and flexor carpi radialis muscles: implications for surgical tendon transfer. Journal of Hand Surgery, 2004, 29, 909-914.	1.6	25
101	Contractile function, sarcolemma integrity, and the loss of dystrophin after skeletal muscle eccentric contraction-induced injury. American Journal of Physiology - Cell Physiology, 2004, 286, C230-C238.	4.6	135