

Christopher L Mendias

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91
papers

3,250
citations

33
h-index

55
g-index

105
ext. papers

4,096
ext. citations

4.1
avg, IF

5.46
L-index

#	Paper	IF	Citations
91	Inducible depletion of satellite cells in adult, sedentary mice impairs muscle regenerative capacity without affecting sarcopenia. <i>Nature Medicine</i> , 2015 , 21, 76-80	50.5	272
90	Atrogin-1, MuRF-1, and sarcopenia. <i>Endocrine</i> , 2013 , 43, 12-21	4	170
89	Tendons of myostatin-deficient mice are small, brittle, and hypocellular. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 388-93	11.5	145
88	Intrinsic stiffness of extracellular matrix increases with age in skeletal muscles of mice. <i>Journal of Applied Physiology</i> , 2014 , 117, 363-9	3.7	122
87	Transforming growth factor-beta induces skeletal muscle atrophy and fibrosis through the induction of atrogin-1 and scleraxis. <i>Muscle and Nerve</i> , 2012 , 45, 55-9	3.4	115
86	Contractile properties of EDL and soleus muscles of myostatin-deficient mice. <i>Journal of Applied Physiology</i> , 2006 , 101, 898-905	3.7	115
85	Musculoskeletal Consequences of COVID-19. <i>Journal of Bone and Joint Surgery - Series A</i> , 2020 , 102, 1197-1204	5.6204	115
84	Physiological loading of tendons induces scleraxis expression in epitenon fibroblasts. <i>Journal of Orthopaedic Research</i> , 2012 , 30, 606-12	3.8	92
83	The aging of elite male athletes: age-related changes in performance and skeletal muscle structure and function. <i>Clinical Journal of Sport Medicine</i> , 2008 , 18, 501-7	3.2	85
82	Changes in macrophage phenotype and induction of epithelial-to-mesenchymal transition genes following acute Achilles tenotomy and repair. <i>Journal of Orthopaedic Research</i> , 2014 , 32, 944-51	3.8	75
81	Platelet-Rich Plasma Activates Proinflammatory Signaling Pathways and Induces Oxidative Stress in Tendon Fibroblasts. <i>American Journal of Sports Medicine</i> , 2016 , 44, 1931-40	6.8	65
80	Role of cyclooxygenase-1 and -2 in satellite cell proliferation, differentiation, and fusion. <i>Muscle and Nerve</i> , 2004 , 30, 497-500	3.4	64
79	Aging-associated exacerbation in fatty degeneration and infiltration after rotator cuff tear. <i>Journal of Shoulder and Elbow Surgery</i> , 2014 , 23, 99-108	4.3	63
78	MMP inhibition as a potential method to augment the healing of skeletal muscle and tendon extracellular matrix. <i>Journal of Applied Physiology</i> , 2013 , 115, 884-91	3.7	63
77	Hip Fracture Outcomes During the COVID-19 Pandemic: Early Results From New York. <i>Journal of Orthopaedic Trauma</i> , 2020 , 34, 403-410	3.1	63
76	Rotator cuff tear reduces muscle fiber specific force production and induces macrophage accumulation and autophagy. <i>Journal of Orthopaedic Research</i> , 2012 , 30, 1963-70	3.8	61
75	TGF- β superfamily signaling in muscle and tendon adaptation to resistance exercise. <i>Exercise and Sport Sciences Reviews</i> , 2015 , 43, 93-9	6.7	60

74	Decreased specific force and power production of muscle fibers from myostatin-deficient mice are associated with a suppression of protein degradation. <i>Journal of Applied Physiology</i> , 2011 , 111, 185-91	3.7	59
73	Inhibition of 5-LOX, COX-1, and COX-2 increases tendon healing and reduces muscle fibrosis and lipid accumulation after rotator cuff repair. <i>American Journal of Sports Medicine</i> , 2014 , 42, 2860-8	6.8	55
72	Changes in circulating biomarkers of muscle atrophy, inflammation, and cartilage turnover in patients undergoing anterior cruciate ligament reconstruction and rehabilitation. <i>American Journal of Sports Medicine</i> , 2013 , 41, 1819-26	6.8	52
71	Elevation in circulating biomarkers of cartilage damage and inflammation in athletes with femoroacetabular impingement. <i>American Journal of Sports Medicine</i> , 2013 , 41, 2585-90	6.8	51
70	Hyaluronic acid, HAS1, and HAS2 are significantly upregulated during muscle hypertrophy. <i>American Journal of Physiology - Cell Physiology</i> , 2012 , 303, C577-88	5.4	50
69	Reduced muscle fiber force production and disrupted myofibril architecture in patients with chronic rotator cuff tears. <i>Journal of Shoulder and Elbow Surgery</i> , 2015 , 24, 111-9	4.3	49
68	Mechanical loading and TGF- β change the expression of multiple miRNAs in tendon fibroblasts. <i>Journal of Applied Physiology</i> , 2012 , 113, 56-62	3.7	49
67	Universal Testing for COVID-19 in Essential Orthopaedic Surgery Reveals a High Percentage of Asymptomatic Infections. <i>Journal of Bone and Joint Surgery - Series A</i> , 2020 , 102, 1379-1388	5.6	44
66	The Effect of Ex Situ Perfusion in a Swine Limb Vascularized Composite Tissue Allograft on Survival up to 24 Hours. <i>Journal of Hand Surgery</i> , 2016 , 41, 3-12	2.6	40
65	Simvastatin reduces fibrosis and protects against muscle weakness after massive rotator cuff tear. <i>Journal of Shoulder and Elbow Surgery</i> , 2015 , 24, 280-7	4.3	36
64	Targeted inhibition of TGF- β results in an initial improvement but long-term deficit in force production after contraction-induced skeletal muscle injury. <i>Journal of Applied Physiology</i> , 2013 , 115, 539-45	3.7	36
63	Sex differences in tendon structure and function. <i>Journal of Orthopaedic Research</i> , 2017 , 35, 2117-2126	3.8	34
62	Synergist ablation induces rapid tendon growth through the synthesis of a neotendon matrix. <i>Journal of Applied Physiology</i> , 2014 , 117, 1287-91	3.7	33
61	Reduced mitochondrial lipid oxidation leads to fat accumulation in myosteatosis. <i>FASEB Journal</i> , 2019 , 33, 7863-7881	0.9	32
60	Ex Situ Perfusion of Human Limb Allografts for 24 Hours. <i>Transplantation</i> , 2017 , 101, e68-e74	1.8	31
59	TGF- β enhances contractility in engineered skeletal muscle. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2013 , 7, 562-71	4.4	29
58	Muscle fibers are injured at the time of acute and chronic rotator cuff repair. <i>Clinical Orthopaedics and Related Research</i> , 2015 , 473, 226-32	2.2	28
57	Ex Situ Limb Perfusion System to Extend Vascularized Composite Tissue Allograft Survival in Swine. <i>Transplantation</i> , 2015 , 99, 2095-101	1.8	28

56	Changes in muscle fiber contractility and extracellular matrix production during skeletal muscle hypertrophy. <i>Journal of Applied Physiology</i> , 2017 , 122, 571-579	3.7	27
55	Changes in skeletal muscle and tendon structure and function following genetic inactivation of myostatin in rats. <i>Journal of Physiology</i> , 2015 , 593, 2037-52	3.9	27
54	p38 MAPK signaling in postnatal tendon growth and remodeling. <i>PLoS ONE</i> , 2015 , 10, e0120044	3.7	27
53	Haploinsufficiency of myostatin protects against aging-related declines in muscle function and enhances the longevity of mice. <i>Aging Cell</i> , 2015 , 14, 704-6	9.9	26
52	Stromal vascular stem cell treatment decreases muscle fibrosis following chronic rotator cuff tear. <i>International Orthopaedics</i> , 2016 , 40, 759-64	3.8	24
51	Pharmacological inhibition of myostatin protects against skeletal muscle atrophy and weakness after anterior cruciate ligament tear. <i>Journal of Orthopaedic Research</i> , 2017 , 35, 2499-2505	3.8	23
50	Single-cell transcriptomic analysis identifies extensive heterogeneity in the cellular composition of mouse Achilles tendons. <i>American Journal of Physiology - Cell Physiology</i> , 2020 , 319, C885-C894	5.4	22
49	Inhibition of platelet-derived growth factor signaling prevents muscle fiber growth during skeletal muscle hypertrophy. <i>FEBS Letters</i> , 2017 , 591, 801-809	3.8	21
48	Inhibition of p38 mitogen-activated protein kinase signaling reduces fibrosis and lipid accumulation after rotator cuff repair. <i>Journal of Shoulder and Elbow Surgery</i> , 2016 , 25, 1501-8	4.3	21
47	Insulin-like growth factor 1 signaling in tenocytes is required for adult tendon growth. <i>FASEB Journal</i> , 2019 , 33, 12680-12695	0.9	19
46	Anterior cruciate ligament tear induces a sustained loss of muscle fiber force production. <i>Muscle and Nerve</i> , 2018 , 58, 145	3.4	19
45	Regeneration of Skeletal Muscle After Eccentric Injury. <i>Journal of Sport Rehabilitation</i> , 2017 , 26, 171-179	1.7	18
44	Local cryotherapy minimally impacts the metabolome and transcriptome of human skeletal muscle. <i>Scientific Reports</i> , 2017 , 7, 2423	4.9	17
43	Blood Flow Restriction Training Applied With High-Intensity Exercise Does Not Improve Quadriceps Muscle Function After Anterior Cruciate Ligament Reconstruction: A Randomized Controlled Trial. <i>American Journal of Sports Medicine</i> , 2020 , 48, 825-837	6.8	17
42	Pathogenesis and Management of Tendinopathies in Sports Medicine. <i>Translational Sports Medicine</i> , 2018 , 1, 5-13	1.3	16
41	Postnatal tendon growth and remodeling require platelet-derived growth factor receptor signaling. <i>American Journal of Physiology - Cell Physiology</i> , 2018 , 314, C389-C403	5.4	16
40	Tissue-engineered tendon constructs for rotator cuff repair in sheep. <i>Journal of Orthopaedic Research</i> , 2018 , 36, 289-299	3.8	16
39	Measurement of Maximum Isometric Force Generated by Permeabilized Skeletal Muscle Fibers. <i>Journal of Visualized Experiments</i> , 2015 , e52695	1.6	16

38	Adaptive and innate immune cell responses in tendons and lymph nodes after tendon injury and repair. <i>Journal of Applied Physiology</i> , 2020 , 128, 473-482	3.7	14
37	Scleraxis is required for the growth of adult tendons in response to mechanical loading. <i>JCI Insight</i> , 2020 , 5,	9.9	13
36	Skeletal muscle fiber type-selective effects of acute exercise on insulin-stimulated glucose uptake in insulin-resistant, high-fat-fed rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019 , 316, E695-E706	6	12
35	Widespread diversity in the transcriptomes of functionally divergent limb tendons. <i>Journal of Physiology</i> , 2020 , 598, 1537-1550	3.9	11
34	T lymphocytes are not required for the development of fatty degeneration after rotator cuff tear. <i>Bone and Joint Research</i> , 2014 , 3, 262-72	4.2	10
33	Fibroblasts take the centre stage in human skeletal muscle regeneration. <i>Journal of Physiology</i> , 2017 , 595, 5005	3.9	9
32	Inhibition of prolyl 4-hydroxylase decreases muscle fibrosis following chronic rotator cuff tear. <i>Bone and Joint Research</i> , 2017 , 6, 57-65	4.2	8
31	Reduced Myogenic and Increased Adipogenic Differentiation Capacity of Rotator Cuff Muscle Stem Cells. <i>Journal of Bone and Joint Surgery - Series A</i> , 2019 , 101, 228-238	5.6	8
30	Single-cell Transcriptomics Identify Extensive Heterogeneity in the Cellular Composition of Mouse Achilles Tendons		8
29	A Transgenic tdTomato Rat for Cell Migration and Tissue Engineering Applications. <i>Tissue Engineering - Part C: Methods</i> , 2018 , 24, 263-271	2.9	7
28	Multimiomics analysis of the mdx/mTR mouse model of Duchenne muscular dystrophy. <i>Connective Tissue Research</i> , 2021 , 62, 24-39	3.3	7
27	Physiological adaptations to resistance training in rats selectively bred for low and high response to aerobic exercise training. <i>Experimental Physiology</i> , 2018 , 103, 1513-1523	2.4	7
26	Mouse forepaw lumbrical muscles are resistant to age-related declines in force production. <i>Experimental Gerontology</i> , 2015 , 65, 42-5	4.5	6
25	Endocranial and masticatory muscle volumes in myostatin-deficient mice. <i>Royal Society Open Science</i> , 2014 , 1, 140187	3.3	6
24	No Treatment Benefits of Local Administration of Insulin-like Growth Factor-1 in Addition to Heavy Slow Resistance Training in Tendinopathic Human Patellar Tendons: A Randomized, Double-Blind, Placebo-Controlled Trial With 1-Year Follow-up. <i>American Journal of Sports Medicine</i> , 2021 , 49, 2361-2370	6.8	5
23	The Use of Recombinant Human Growth Hormone to Protect Against Muscle Weakness in Patients Undergoing Anterior Cruciate Ligament Reconstruction: A Pilot, Randomized Placebo-Controlled Trial. <i>American Journal of Sports Medicine</i> , 2020 , 48, 1916-1928	6.8	4
22	Optimal Joint Positions for Manual Isometric Muscle Testing. <i>Journal of Sport Rehabilitation</i> , 2016 , 25,	1.7	4
21	Single Muscle Fibre Contractility Testing in Rats to Quantify Ischaemic Muscle Damage During Reperfusion Injury. <i>European Journal of Vascular and Endovascular Surgery</i> , 2019 , 58, 249-256	2.3	3

20	A stochastic structural reliability model explains rotator cuff repair retears. <i>International Biomechanics</i> , 2014 , 1, 29-35	0.6	3
19	What is the role of systemic conditions and options for manipulation of bone formation and bone resorption in rotator cuff tendon healing and repair?. <i>Techniques in Shoulder and Elbow Surgery</i> , 2017 , 18, 113-120	0.3	3
18	Multiomics Analysis of the mdx/mTR Mouse Model of Duchenne Muscular Dystrophy		3
17	Active shortening protects against stretch-induced force deficits in human skeletal muscle. <i>Journal of Applied Physiology</i> , 2017 , 122, 1218-1226	3.7	2
16	Cryotherapy duration is critical in short-term recovery of athletes: a systematic review. <i>Journal of ISAKOS</i> , 2019 , 4, 131-136	1.1	2
15	The MRL/MpJ Mouse Strain Is Not Protected From Muscle Atrophy and Weakness After Rotator Cuff Tear. <i>Journal of Orthopaedic Research</i> , 2020 , 38, 811-822	3.8	2
14	Prostaglandin D signaling is not involved in the recovery of rat hind limb tendons from injury. <i>Physiological Reports</i> , 2019 , 7, e14289	2.6	2
13	Assessment of the Contractile Properties of Permeabilized Skeletal Muscle Fibers. <i>Methods in Molecular Biology</i> , 2016 , 1460, 321-36	1.4	1
12	Ontogenetic and in silico models of spatial-packing in the hypermuscular mouse skull. <i>Journal of Anatomy</i> , 2021 , 238, 1284-1295	2.9	1
11	Increased Comorbidity Burden Among Hip Fracture Patients During the COVID-19 Pandemic in New York City. <i>Geriatric Orthopaedic Surgery and Rehabilitation</i> , 2021 , 12, 21514593211040611	2	0
10	Simvastatin Reduces Fibrosis and Protects Against Muscle Weakness after Massive Rotator Cuff Tear. <i>Journal of Shoulder and Elbow Surgery</i> , 2015 , 24, e109-e110	4.3	
9	RE: Talks BJ, Fernquest S, Palmer A, et al. 2019. No Evidence of Systemic Inflammation in Symptomatic Patients With Femoroacetabular Impingement. <i>Journal of Orthopaedic Research</i> , 2019 , 37, 2621-2622	3.8	
8	Contractile properties of skeletal muscles from myostatin deficient mice. <i>FASEB Journal</i> , 2006 , 20, A387	0.9	
7	Amniotic membrane improves force production after repair of a massive rotator cuff tear. <i>FASEB Journal</i> , 2018 , 32, 856.1	0.9	
6	Specific force generation and injury susceptibility of permeabilized single skeletal muscle fibers from myostatin-deficient mice. <i>FASEB Journal</i> , 2010 , 24, 989.26	0.9	
5	Role of Contraction-Induced Injury in Age-Related Muscle Wasting and Weakness 2011 , 373-391		
4	Achilles Tendon Ablation Induces Scleraxis Expression and Neotendon Formation in the Plantaris Tendon. <i>FASEB Journal</i> , 2012 , 26, 1142.52	0.9	
3	Fat accumulation, fibrosis, fiber-type switching, and a reduction in specific force production following rotator cuff tear. <i>FASEB Journal</i> , 2012 , 26, 1086.28	0.9	

- 2 Improvement in the Contractility and Muscle Stem Cell Density of the Rotator Cuff Following Surgical Repair: A Case Report. *JBJS Case Connector*, **2012**, 2, e75 0.4
- 1 Shoulder Lesions Do Not Increase Inflammatory Biomarkers in Patients Undergoing Surgery for Glenohumeral Instability: An Exploratory Study. *Translational Sports Medicine*, **2022**, 2022, 1-10 1.3