

# Christopher L Mendias

## List of Publications by Year in descending order

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Version: 2024-02-01

90  
papers

4,273  
citations

101384

36  
h-index

118652

62  
g-index

105  
all docs

105  
docs citations

105  
times ranked

5481  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inducible depletion of satellite cells in adult, sedentary mice impairs muscle regenerative capacity without affecting sarcopenia. <i>Nature Medicine</i> , 2015, 21, 76-80.	15.2	358
2	Musculoskeletal Consequences of COVID-19. <i>Journal of Bone and Joint Surgery - Series A</i> , 2020, 102, 1197-1204.	1.4	259
3	Atrogin-1, MuRF-1, and sarcopenia. <i>Endocrine</i> , 2013, 43, 12-21.	1.1	258
4	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, 388-393.	3.3	169
5	Intrinsic stiffness of extracellular matrix increases with age in skeletal muscles of mice. <i>Journal of Applied Physiology</i> , 2014, 117, 363-369.	1.2	168
6	Transforming growth factor $\beta$ induces skeletal muscle atrophy and fibrosis through the induction of atrogin $\alpha$ and scleraxis. <i>Muscle and Nerve</i> , 2012, 45, 55-59.	1.0	146
7	Contractile properties of EDL and soleus muscles of myostatin-deficient mice. <i>Journal of Applied Physiology</i> , 2006, 101, 898-905.	1.2	123
8	Physiological loading of tendons induces scleraxis expression in epitenon fibroblasts. <i>Journal of Orthopaedic Research</i> , 2012, 30, 606-612.	1.2	114
9	Changes in macrophage phenotype and induction of epithelial $\rightarrow$ mesenchymal transition genes following acute Achilles tenotomy and repair. <i>Journal of Orthopaedic Research</i> , 2014, 32, 944-951.	1.2	103
10	Platelet-Rich Plasma Activates Proinflammatory Signaling Pathways and Induces Oxidative Stress in Tendon Fibroblasts. <i>American Journal of Sports Medicine</i> , 2016, 44, 1931-1940.	1.9	100
11	Hip Fracture Outcomes During the COVID-19 Pandemic: Early Results From New York. <i>Journal of Orthopaedic Trauma</i> , 2020, 34, 403-410.	0.7	100
12	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, 501-507.	0.9	97
13	TGF- $\beta$ Superfamily Signaling in Muscle and Tendon Adaptation to Resistance Exercise. <i>Exercise and Sport Sciences Reviews</i> , 2015, 43, 93-99.	1.6	93
14	Aging-associated exacerbation in fatty degeneration and infiltration after rotator cuff tear. <i>Journal of Shoulder and Elbow Surgery</i> , 2014, 23, 99-108.	1.2	86
15	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, 884-891.	1.2	84
16	Role of cyclooxygenase-1 and -2 in satellite cell proliferation, differentiation, and fusion. <i>Muscle and Nerve</i> , 2004, 30, 497-500.	1.0	71
17	Rotator cuff tear reduces muscle fiber specific force production and induces macrophage accumulation and autophagy. <i>Journal of Orthopaedic Research</i> , 2012, 30, 1963-1970.	1.2	71
18	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, 2860-2868.	1.9	70

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19	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.	2.1	67
20	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, 1819-1826.	1.9	64
21	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, 185-191.	1.2	63
22	Reduced mitochondrial lipid oxidation leads to fat accumulation in myosteatosis. <i>FASEB Journal</i> , 2019, 33, 7863-7881.	0.2	63
23	Mechanical loading and TGF- $\beta$ 2 change the expression of multiple miRNAs in tendon fibroblasts. <i>Journal of Applied Physiology</i> , 2012, 113, 56-62.	1.2	62
24	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, 111-119.	1.2	61
25	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.	0.7	60
26	Hyaluronic acid, HAS1, and HAS2 are significantly upregulated during muscle hypertrophy. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 303, C577-C588.	2.1	59
27	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.	1.4	59
28	Elevation in Circulating Biomarkers of Cartilage Damage and Inflammation in Athletes With Femoroacetabular Impingement. <i>American Journal of Sports Medicine</i> , 2013, 41, 2585-2590.	1.9	57
29	Ex Situ Perfusion of Human Limb Allografts for 24 Hours. <i>Transplantation</i> , 2017, 101, e68-e74.	0.5	57
30	Sex differences in tendon structure and function. <i>Journal of Orthopaedic Research</i> , 2017, 35, 2117-2126.	1.2	54
31	Ex Situ Limb Perfusion System to Extend Vascularized Composite Tissue Allograft Survival in Swine. <i>Transplantation</i> , 2015, 99, 2095-2101.	0.5	46
32	Synergist ablation induces rapid tendon growth through the synthesis of a neotendon matrix. <i>Journal of Applied Physiology</i> , 2014, 117, 1287-1291.	1.2	45
33	Simvastatin reduces fibrosis and protects against muscle weakness after massive rotator cuff tear. <i>Journal of Shoulder and Elbow Surgery</i> , 2015, 24, 280-287.	1.2	44
34	Changes in muscle fiber contractility and extracellular matrix production during skeletal muscle hypertrophy. <i>Journal of Applied Physiology</i> , 2017, 122, 571-579.	1.2	43
35	Targeted inhibition of TGF- $\beta$ 2 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, 539-545.	1.2	42
36	Tissue-engineered tendon constructs for rotator cuff repair in sheep. <i>Journal of Orthopaedic Research</i> , 2018, 36, 289-299.	1.2	42

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37	Haploinsufficiency of myostatin protects against aging-related declines in muscle function and enhances the longevity of mice. <i>Aging Cell</i> , 2015, 14, 704-706.	3.0	41
38	Insulin-like growth factor 1 signaling in tenocytes is required for adult tendon growth. <i>FASEB Journal</i> , 2019, 33, 12680-12695.	0.2	41
39	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.	1.9	40
40	p38 MAPK Signaling in Postnatal Tendon Growth and Remodeling. <i>PLoS ONE</i> , 2015, 10, e0120044.	1.1	37
41	Scleraxis is required for the growth of adult tendons in response to mechanical loading. <i>JCI Insight</i> , 2020, 5, .	2.3	37
42	TGF- $\beta$ 1 enhances contractility in engineered skeletal muscle. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2013, 7, 562-571.	1.3	33
43	Muscle Fibers are Injured at the Time of Acute and Chronic Rotator Cuff Repair. <i>Clinical Orthopaedics and Related Research</i> , 2015, 473, 226-232.	0.7	33
44	Inhibition of platelet-derived growth factor signaling prevents muscle fiber growth during skeletal muscle hypertrophy. <i>FEBS Letters</i> , 2017, 591, 801-809.	1.3	33
45	Changes in skeletal muscle and tendon structure and function following genetic inactivation of myostatin in rats. <i>Journal of Physiology</i> , 2015, 593, 2037-2052.	1.3	31
46	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, 1501-1508.	1.2	30
47	Regeneration of Skeletal Muscle After Eccentric Injury. <i>Journal of Sport Rehabilitation</i> , 2017, 26, 171-179.	0.4	30
48	Stromal vascular stem cell treatment decreases muscle fibrosis following chronic rotator cuff tear. <i>International Orthopaedics</i> , 2016, 40, 759-764.	0.9	28
49	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.	1.2	28
50	Pathogenesis and management of tendinopathies in sports medicine. <i>Translational Sports Medicine</i> , 2018, 1, 5-13.	0.5	27
51	Measurement of Maximum Isometric Force Generated by Permeabilized Skeletal Muscle Fibers. <i>Journal of Visualized Experiments</i> , 2015, , e52695.	0.2	25
52	Postnatal tendon growth and remodeling require platelet-derived growth factor receptor signaling. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 314, C389-C403.	2.1	25
53	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.	1.2	24
54	Local cryotherapy minimally impacts the metabolome and transcriptome of human skeletal muscle. <i>Scientific Reports</i> , 2017, 7, 2423.	1.6	23

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55	Anterior cruciate ligament tear induces a sustained loss of muscle fiber force production. <i>Muscle and Nerve</i> , 2018, 58, 145-148.	1.0	23
56	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.	1.8	20
57	Widespread diversity in the transcriptomes of functionally divergent limb tendons. <i>Journal of Physiology</i> , 2020, 598, 1537-1550.	1.3	19
58	T lymphocytes are not required for the development of fatty degeneration after rotator cuff tear. <i>Bone and Joint Research</i> , 2014, 3, 262-272.	1.3	16
59	Multiomics analysis of the mdx/mTR mouse model of Duchenne muscular dystrophy. <i>Connective Tissue Research</i> , 2021, 62, 24-39.	1.1	16
60	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.	1.4	14
61	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.	1.9	13
62	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.	0.9	12
63	Inhibition of prolyl 4-hydroxylase decreases muscle fibrosis following chronic rotator cuff tear. <i>Bone and Joint Research</i> , 2017, 6, 57-65.	1.3	10
64	Fibroblasts take the centre stage in human skeletal muscle regeneration. <i>Journal of Physiology</i> , 2017, 595, 5005-5005.	1.3	10
65	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.	1.9	10
66	A Transgenic tdTomato Rat for Cell Migration and Tissue Engineering Applications. <i>Tissue Engineering - Part C: Methods</i> , 2018, 24, 263-271.	1.1	9
67	Mouse forepaw lumbrical muscles are resistant to age-related declines in force production. <i>Experimental Gerontology</i> , 2015, 65, 42-45.	1.2	8
68	Optimal Joint Positions for Manual Isometric Muscle Testing. <i>Journal of Sport Rehabilitation</i> , 2016, 25, .	0.4	8
69	Endocranial and masticatory muscle volumes in myostatin-deficient mice. <i>Royal Society Open Science</i> , 2014, 1, 140187.	1.1	7
70	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.	0.2	6
71	Cryotherapy duration is critical in short-term recovery of athletes: a systematic review. <i>Journal of ISAKOS</i> , 2019, 4, 131-136.	1.1	5
72	A stochastic structural reliability model explains rotator cuff repair retears. <i>International Biomechanics</i> , 2014, 1, 29-35.	0.9	4

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73	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.	1.2	4
74	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, 215145932110406.	0.6	4
75	Assessment of the Contractile Properties of Permeabilized Skeletal Muscle Fibers. <i>Methods in Molecular Biology</i> , 2016, 1460, 321-336.	0.4	3
76	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.	0.8	3
77	Prostaglandin D 2 signaling is not involved in the recovery of rat hind limb tendons from injury. <i>Physiological Reports</i> , 2019, 7, e14289.	0.7	3
78	Active shortening protects against stretch-induced force deficits in human skeletal muscle. <i>Journal of Applied Physiology</i> , 2017, 122, 1218-1226.	1.2	2
79	Ontogenetic and <i>in silico</i> models of spatial packing in the hypermuscular mouse skull. <i>Journal of Anatomy</i> , 2021, 238, 1284-1295.	0.9	2
80	Inflammation in tendinopathy: The pendulum swings. <i>Translational Sports Medicine</i> , 2018, 1, 103-103.	0.5	1
81	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.	1.2	0
82	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.	1.2	0
83	Contractile properties of skeletal muscles from myostatin deficient mice. <i>FASEB Journal</i> , 2006, 20, A387.	0.2	0
84	Specific force generation and injury susceptibility of permeabilized single skeletal muscle fibers from myostatin-deficient mice. <i>FASEB Journal</i> , 2010, 24, 989.26.	0.2	0
85	Role of Contraction-Induced Injury in Age-Related Muscle Wasting and Weakness. , 2011, , 373-391.		0
86	Achilles Tendon Ablation Induces Scleraxis Expression and Neotendon Formation in the Plantaris Tendon. <i>FASEB Journal</i> , 2012, 26, 1142.52.	0.2	0
87	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.	0.2	0
88	Improvement in the Contractility and Muscle Stem Cell Density of the Rotator Cuff Following Surgical Repair. <i>JBJS Case Connector</i> , 2012, 2, e75.	0.1	0
89	Amniotic membrane improves force production after repair of a massive rotator cuff tear. <i>FASEB Journal</i> , 2018, 32, 856.1.	0.2	0
90	Shoulder Lesions Do Not Increase Inflammatory Biomarkers in Patients Undergoing Surgery for Glenohumeral Instability: An Exploratory Study. <i>Translational Sports Medicine</i> , 2022, 2022, 1-10.	0.5	0