

Richard L Lieber

List of Publications by Year in descending order

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Version: 2024-02-01

285
papers

17,428
citations

16451

64
h-index

19190

118
g-index

293
all docs

293
docs citations

293
times ranked

12389
citing authors

#	ARTICLE	IF	CITATIONS
1	Can we just forget about pennation angle?. Journal of Biomechanics, 2022, 132, 110954.	2.1	23
2	Effects of voluntary exercise on muscle structure and function in cerebral palsy. Developmental Medicine and Child Neurology, 2022, 64, 700-708.	2.1	7
3	Teamwork Pays! Ten Tips for a Great Surgeon-Scientist Collaboration. Journal of Hand Surgery, 2022, 47, 673-676.	1.6	0
4	An estrogen-sensitive fibroblast population drives abdominal muscle fibrosis in an inguinal hernia mouse model. JCI Insight, 2022, 7, .	5.0	2
5	Procedures for obtaining muscle physiology parameters during a gracilis free-functioning muscle transfer in adult patients with brachial plexus injury. Scientific Reports, 2022, 12, 6095.	3.3	4
6	Sensor Anchoring Improves the Correlation Between Intramuscular Pressure and Muscle Tension in a Rabbit Model. Annals of Biomedical Engineering, 2021, 49, 912-921.	2.5	2
7	Surgical Mobilization of Skeletal Muscles Changes Functional Propertiesâ€™ Implications for Tendon Transfers. Journal of Hand Surgery, 2021, 46, 341.e1-341.e10.	1.6	2
8	The Lumbricals Are Not the Workhorse of Digital Extension and Do Not Relax Their Own Antagonist. Journal of Hand Surgery, 2021, 46, 232-235.	1.6	2
9	Development of a Multidimensional, Multigroup Measure of Self-Care for Inpatient Rehabilitation. Archives of Physical Medicine and Rehabilitation, 2021, 102, 97-105.	0.9	1
10	Contribution of extracellular matrix components to the stiffness of skeletal muscle contractures in patients with cerebral palsy. Connective Tissue Research, 2021, 62, 287-298.	2.3	32
11	Systemic Transplantation of Adult Multipotent Stem Cells Functionally Rejuvenates Aged Articular Cartilage. , 2021, 12, 726.		5
12	Muscle-tendon unit in children with cerebral palsy. Developmental Medicine and Child Neurology, 2021, 63, 908-913.	2.1	5
13	Commentary: Muscle Microbiopsy to Delineate Stem Cell Involvement in Young Patients: A Novel Approach for Children With Cerebral Palsy. Frontiers in Physiology, 2021, 12, 642366.	2.8	2
14	Characterization of Motor-Evoked Responses Obtained with Transcutaneous Electrical Spinal Stimulation from the Lower-Limb Muscles after Stroke. Brain Sciences, 2021, 11, 289.	2.3	5
15	A Mobility Measure for Inpatient Rehabilitation Using Multigroup, Multidimensional Methods. Journal of Neurologic Physical Therapy, 2021, 45, 101-111.	1.4	2
16	Systemic transplantation of adult multipotent stem cells prevents articular cartilage degeneration in a mouse model of accelerated ageing. Immunity and Ageing, 2021, 18, 27.	4.2	3
17	Measuring and modeling in vivo human gracilis muscle-tendon unit length. Journal of Biomechanics, 2021, 125, 110592.	2.1	4
18	Biochemical and structural basis of the passive mechanical properties of whole skeletal muscle. Journal of Physiology, 2021, 599, 3809-3823.	2.9	23

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19	Outcome from a brachialis donor for wrist extension in tetraplegia—time to reconsider the International Classification for Surgery of the Hand in Tetraplegia (ICSHT). <i>Spinal Cord Series and Cases</i> , 2021, 7, 73.	0.6	1
20	Stretch-induced satellite cell deformation in contracted muscles in children with cerebral palsy. <i>Journal of Biomechanics</i> , 2021, 126, 110635.	2.1	3
21	Differential DNA methylation and transcriptional signatures characterize impairment of muscle stem cells in pediatric human muscle contractures after brain injury. <i>FASEB Journal</i> , 2021, 35, e21928.	0.5	8
22	<i>In vivo</i> human gracilis whole-muscle passive stress–sarcomere strain relationship. <i>Journal of Experimental Biology</i> , 2021, 224, .	1.7	12
23	Skeletal muscle maximal mitochondrial activity in ambulatory children with cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2021, 63, 1194-1203.	2.1	10
24	Miniaturized wireless, skin-integrated sensor networks for quantifying full-body movement behaviors and vital signs in infants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	30
25	Systematic review of skeletal muscle passive mechanics experimental methodology. <i>Journal of Biomechanics</i> , 2021, 129, 110839.	2.1	15
26	Myopalladin promotes muscle growth through modulation of the serum response factor pathway. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020, 11, 169-194.	7.3	26
27	Vitamin D repletion ameliorates adipose tissue browning and muscle wasting in infantile nephropathic cystinosis-associated cachexia. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020, 11, 120-134.	7.3	26
28	<i>In vivo</i> supraspinatus muscle contractility and architecture in rabbit. <i>Journal of Applied Physiology</i> , 2020, 129, 1405-1412.	2.5	4
29	Improvement in Gait Function After Receiving Noninvasive Spinal Stimulation Combined With Gait Training in Chronic Stroke Survivors. <i>Archives of Physical Medicine and Rehabilitation</i> , 2020, 101, e46.	0.9	0
30	Vitamin D ameliorates adipose browning in chronic kidney disease cachexia. <i>Scientific Reports</i> , 2020, 10, 14175.	3.3	20
31	Intramuscular Anatomy Drives Collagen Content Variation Within and Between Muscles. <i>Frontiers in Physiology</i> , 2020, 11, 293.	2.8	14
32	Inpatient stroke rehabilitation: prediction of clinical outcomes using a machine-learning approach. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2020, 17, 71.	4.6	39
33	Does a Reduced Number of Muscle Stem Cells Impair the Addition of Sarcomeres and Recovery from a Skeletal Muscle Contracture? A Transgenic Mouse Model. <i>Clinical Orthopaedics and Related Research</i> , 2020, 478, 886-899.	1.5	13
34	Non-linear Scaling of Passive Mechanical Properties in Fibers, Bundles, Fascicles and Whole Rabbit Muscles. <i>Frontiers in Physiology</i> , 2020, 11, 211.	2.8	41
35	Conference report on contractures in musculoskeletal and neurological conditions. <i>Muscle and Nerve</i> , 2020, 61, 740-744.	2.2	13
36	Pragmatic adaptation of implementation research measures for a novel context and multiple professional roles: a factor analysis study. <i>BMC Health Services Research</i> , 2020, 20, 257.	2.2	9

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37	Muscle Changes at the Cellular-Fiber Level in Cerebral Palsy. , 2020, , 241-252.		0
38	Augmenting Clinical Outcome Measures of Gait and Balance with a Single Inertial Sensor in Age-Ranged Healthy Adults. Sensors, 2019, 19, 4537.	3.8	28
39	Reach out and grasp the opportunity: reconstructive hand surgery in tetraplegia. Journal of Hand Surgery: European Volume, 2019, 44, 343-353.	1.0	14
40	Spinal Hyper-Excitability and Altered Muscle Structure Contribute to Muscle Hypertonia in Newborns After Antenatal Hypoxia-Ischemia in a Rabbit Cerebral Palsy Model. Frontiers in Neurology, 2019, 9, 1183.	2.4	12
41	Automating sleep stage classification using wireless, wearable sensors. Npj Digital Medicine, 2019, 2, 131.	10.9	60
42	Architecture of the Short External Rotator Muscles of the Hip. BMC Musculoskeletal Disorders, 2019, 20, 611.	1.9	17
43	Muscle contracture and passive mechanics in cerebral palsy. Journal of Applied Physiology, 2019, 126, 1492-1501.	2.5	64
44	Muscle Biology of Contractures in Children with Cerebral Palsy. , 2018, , 143-153.		4
45	Resonant Reflection Spectroscopy and Optical Interferometry to Measure Sarcomere Structure in Muscle. Biophysical Journal, 2018, 114, 135a.	0.5	0
46	Analysis of hierarchical biomechanical data structures using mixed-effects models. Journal of Biomechanics, 2018, 69, 34-39.	2.1	17
47	Muscle Changes at the Cellular-Fiber Level in Cerebral Palsy. , 2018, , 1-12.		2
48	Recovery of rat muscle size but not function more than 1 year after a single botulinum toxin injection. Muscle and Nerve, 2018, 57, 435-441.	2.2	22
49	Co-Expression Network Approach to Studying the Effects of Botulinum Neurotoxin-A. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 2009-2016.	3.0	3
50	Intraoperative and biomechanical studies of human vastus lateralis and vastus medialis sarcomere length operating range. Journal of Biomechanics, 2018, 67, 91-97.	2.1	20
51	Frog muscle fibers bear a larger fraction of passive muscle tension than mouse fibers. Journal of Experimental Biology, 2018, 221, .	1.7	51
52	Biomechanical response of skeletal muscle to eccentric contractions. Journal of Sport and Health Science, 2018, 7, 294-309.	6.5	35
53	Loss of myogenic potential and fusion capacity of muscle stem cells isolated from contracted muscle in children with cerebral palsy. American Journal of Physiology - Cell Physiology, 2018, 315, C247-C257.	4.6	35
54	InÂVivo Sarcomere Length Measurement in Whole Muscles during Passive Stretch and Twitch Contractions. Biophysical Journal, 2017, 112, 805-812.	0.5	13

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55	Three distinct cell populations express extracellular matrix proteins and increase in number during skeletal muscle fibrosis. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 312, C131-C143.	4.6	49
56	Rehabilitation Research at the National Institutes of Health: Moving the Field Forward (Executive) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	0.9	6
57	DNA-PK Promotes the Mitochondrial, Metabolic, and Physical Decline that Occurs During Aging. <i>Cell Metabolism</i> , 2017, 25, 1135-1146.e7.	16.2	92
58	Rehabilitation research at the National Institutes of Health: Moving the field forward (Executive) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	2.0	3
59	3D-printed biomaterials with regional auxetic properties. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 76, 145-152.	3.1	38
60	Rehabilitation Research at the National Institutes of Health. <i>Neurorehabilitation and Neural Repair</i> , 2017, 31, 304-314.	2.9	12
61	High resolution three-dimensional reconstruction of fibrotic skeletal muscle extracellular matrix. <i>Journal of Physiology</i> , 2017, 595, 1159-1171.	2.9	56
62	Skeletal muscle fiber-type specific succinate dehydrogenase activity in cerebral palsy. <i>Muscle and Nerve</i> , 2017, 55, 122-124.	2.2	19
63	Reduced skeletal muscle satellite cell number alters muscle morphology after chronic stretch but allows limited serial sarcomere addition. <i>Muscle and Nerve</i> , 2017, 55, 384-392.	2.2	41
64	Design Considerations of a Fiber Optic Pressure Sensor Protective Housing for Intramuscular Pressure Measurements. <i>Annals of Biomedical Engineering</i> , 2017, 45, 739-746.	2.5	13
65	Skeletal muscle mechanics, energetics and plasticity. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017, 14, 108.	4.6	99
66	Rehabilitation Research at the National Institutes of Health: Moving the Field Forward (Executive) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	0.3	5
67	Shoulder Muscle Architecture, Physiology, and Plasticity. , 2017, , 215-225.		0
68	Rehabilitation research at the National Institutes of Health moving the field forward (executive) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	1.3	2
69	Long-Term Loss of Function in Rat Skeletal Muscle After a Single Botox Injection. <i>Archives of Physical Medicine and Rehabilitation</i> , 2016, 97, e25-e26.	0.9	0
70	Muscle wasting and adipose tissue browning in infantile nephropathic cystinosis. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2016, 7, 152-164.	7.3	27
71	Cerebral palsy. <i>Nature Reviews Disease Primers</i> , 2016, 2, 15082.	30.5	603
72	Pregnancy-induced adaptations in intramuscular extracellular matrix of rat pelvic floor muscles. <i>American Journal of Obstetrics and Gynecology</i> , 2016, 215, 210.e1-210.e7.	1.3	36

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73	Skeletal muscle fibroblasts in health and disease. <i>Differentiation</i> , 2016, 92, 108-115.	1.9	86
74	Sarcomere length distribution quantification in whole muscle frozen sections. <i>Journal of Experimental Biology</i> , 2016, 219, 1432-6.	1.7	15
75	Impact of vaginal parity and aging on the architectural design of pelvic floor muscles. <i>American Journal of Obstetrics and Gynecology</i> , 2016, 215, 312.e1-312.e9.	1.3	62
76	Muscle intermediate filaments form a stress-transmitting and stress- signaling network in muscle. <i>Journal of Cell Science</i> , 2015, 128, 219-24.	2.0	51
77	Desmin Intermediate Filaments Form a Stress-Transmitting and Stress-Signaling Network In Muscle. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 98.	0.4	0
78	Identification of Collagen Producing Cells in a Model of Skeletal Muscle Fibrosis. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 101.	0.4	0
79	Skeletal Muscle Succinate Dehydrogenase Activity is not Altered in Cerebral Palsy. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 62.	0.4	0
80	Dramatic changes in muscle contractile and structural properties after 2 botulinum toxin injections. <i>Muscle and Nerve</i> , 2015, 52, 649-657.	2.2	46
81	Minimally Invasive Sarcomere Length Measured by Novel Resonant Reflection Spectroscopy. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 290.	0.4	0
82	Collagen crosslinking does not dictate stiffness in a transgenic mouse model of skeletal muscle fibrosis. <i>Journal of Biomechanics</i> , 2015, 48, 375-378.	2.1	36
83	Reduced satellite cell number in situ in muscular contractures from children with cerebral palsy. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1039-1045.	2.3	63
84	Pregnancy-induced adaptations in the intrinsic structure of rat pelvic floor muscles. <i>American Journal of Obstetrics and Gynecology</i> , 2015, 213, 191.e1-191.e7.	1.3	54
85	The mechanical strength of side-to-side tendon repair with mismatched tendon size and shape. <i>Journal of Hand Surgery: European Volume</i> , 2015, 40, 239-245.	1.0	29
86	Lmo7 is dispensable for skeletal muscle and cardiac function. <i>American Journal of Physiology - Cell Physiology</i> , 2015, 309, C470-C479.	4.6	11
87	The Effect of Intrinsic Loading and Reconstruction Upon Grip Capacity and Finger Extension Kinematics. <i>Journal of Hand Surgery</i> , 2015, 40, 96-101.e1.	1.6	3
88	Pathophysiology of Muscle Contractures in Cerebral Palsy. <i>Physical Medicine and Rehabilitation Clinics of North America</i> , 2015, 26, 57-67.	1.3	135
89	High resolution muscle measurements provide insights into equinus contractures in patients with cerebral palsy. <i>Journal of Orthopaedic Research</i> , 2015, 33, 33-39.	2.3	84
90	Comparison of rotator cuff muscle architecture among humans and selected vertebrate species. <i>Journal of Experimental Biology</i> , 2014, 217, 261-73.	1.7	50

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91	Muscle Gene Expression Patterns in Human Rotator Cuff Pathology. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, 1558-1565.	3.0	28
92	Disruption of both nesprin 1 and desmin results in nuclear anchorage defects and fibrosis in skeletal muscle. <i>Human Molecular Genetics</i> , 2014, 23, 5879-5892.	2.9	52
93	Contribution of denervated muscle to contractures after neonatal brachial plexus injury: Not just muscle fibrosis. <i>Muscle and Nerve</i> , 2014, 49, 398-404.	2.2	48
94	Stiff muscle fibers in calf muscles of patients with cerebral palsy lead to high passive muscle stiffness. <i>Journal of Orthopaedic Research</i> , 2014, 32, 1667-1674.	2.3	63
95	Skeletal muscle changes due to cerebral palsy. , 2014, , 135-155.		1
96	Polarization gating enables sarcomere length measurements by laser diffraction in fibrotic muscle. <i>Journal of Biomedical Optics</i> , 2014, 19, 117009.	2.6	6
97	Loss of FHL1 induces an age-dependent skeletal muscle myopathy associated with myofibrillar and intermyofibrillar disorganization in mice. <i>Human Molecular Genetics</i> , 2014, 23, 209-225.	2.9	41
98	Post-mortem timing of skeletal muscle biochemical and mechanical degradation. <i>Journal of Biomechanics</i> , 2014, 47, 1506-1509.	2.1	11
99	Architectural design of the pelvic floor is consistent with muscle functional subspecialization. <i>International Urogynecology Journal</i> , 2014, 25, 205-212.	1.4	24
100	Systems analysis of transcriptional data provides insights into muscle's biological response to botulinum toxin. <i>Muscle and Nerve</i> , 2014, 50, 744-758.	2.2	33
101	Systematic test of neurotoxin dose and volume on muscle function in a rat model. <i>Muscle and Nerve</i> , 2014, 49, 709-715.	2.2	10
102	Resonant Reflection Spectroscopy of Biomolecular Arrays in Muscle. <i>Biophysical Journal</i> , 2014, 107, 2352-2360.	0.5	4
103	Effect of Supraspinatus Tendon Injury on Supraspinatus and Infraspinatus Muscle Passive Tension and Associated Biochemistry. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, e175.	3.0	28
104	Comparison of pelvic muscle architecture between humans and commonly used laboratory species. <i>International Urogynecology Journal</i> , 2014, 25, 1507-1515.	1.4	30
105	Skeletal muscle satellite cells: Mediators of muscle growth during development and implications for developmental disorders. <i>Muscle and Nerve</i> , 2014, 50, 723-732.	2.2	65
106	Three-Dimensional Reconstruction of Skeletal Muscle Extracellular Matrix Ultrastructure. <i>Microscopy and Microanalysis</i> , 2014, 20, 1835-1840.	0.4	23
107	The nebulin SH3 domain is dispensable for normal skeletal muscle structure but is required for effective active load bearing in mouse. <i>Development (Cambridge)</i> , 2014, 141, e108-e108.	2.5	0
108	Cellular Mechanisms of Tissue Fibrosis. 4. Structural and functional consequences of skeletal muscle fibrosis. <i>American Journal of Physiology - Cell Physiology</i> , 2013, 305, C241-C252.	4.6	233

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109	Intrinsic Hand Muscle Function, Part 2: Kinematic Comparison of 2 Reconstructive Procedures. <i>Journal of Hand Surgery</i> , 2013, 38, 2100-2105.e1.	1.6	16
110	The nebulin SH3 domain is dispensable for normal skeletal muscle structure but is required for effective active load bearing in mouse. <i>Journal of Cell Science</i> , 2013, 126, 5477-89.	2.0	31
111	Systems analysis of biological networks in skeletal muscle function. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2013, 5, 55-71.	6.6	56
112	Intrinsic Hand Muscle Function, Part 1: Creating a Functional Grasp. <i>Journal of Hand Surgery</i> , 2013, 38, 2093-2099.	1.6	29
113	Reduced satellite cell population may lead to contractures in children with cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2013, 55, 264-270.	2.1	81
114	Role of the cytoskeleton in muscle transcriptional responses to altered use. <i>Physiological Genomics</i> , 2013, 45, 321-331.	2.3	11
115	Functional Consequence of Distal Brachioradialis Tendon Release: A Biomechanical Study. <i>Journal of Hand Surgery</i> , 2013, 38, 920-926.	1.6	16
116	Nerve strain correlates with structural changes quantified by fourier analysis. <i>Muscle and Nerve</i> , 2013, 48, 433-435.	2.2	8
117	Human skeletal muscle biochemical diversity. <i>Journal of Experimental Biology</i> , 2012, 215, 2931-2931.	1.7	0
118	The Use of Neural Networks and Texture Analysis for Rapid Objective Selection of Regions of Interest in Cytoskeletal Images. <i>Microscopy and Microanalysis</i> , 2012, 18, 115-122.	0.4	1
119	Anatomical, architectural, and biochemical diversity of the murine forelimb muscles. <i>Journal of Anatomy</i> , 2012, 221, 443-451.	1.5	45
120	Response to Letter to the Editor: "Poisson's ratios in anisotropic materials at finite strains; comment on short communication by Smith et al. (2011)". <i>Journal of Biomechanics</i> , 2012, 45, 1859-1860.	2.1	0
121	New Opportunities and Novel Paradigms to Support Neuromuscular Research. <i>Physical Medicine and Rehabilitation Clinics of North America</i> , 2012, 23, 95-105.	1.3	0
122	Transcriptional Abnormalities of Hamstring Muscle Contractures in Children with Cerebral Palsy. <i>PLoS ONE</i> , 2012, 7, e40686.	2.5	50
123	Passive mechanical properties of rat abdominal wall muscles suggest an important role of the extracellular connective tissue matrix. <i>Journal of Orthopaedic Research</i> , 2012, 30, 1321-1326.	2.3	36
124	Muscle excursion does not correlate with increased serial sarcomere number after muscle adaptation to stretched tendon transfer. <i>Journal of Orthopaedic Research</i> , 2012, 30, 1774-1780.	2.3	14
125	Sample size considerations in human muscle architecture studies. <i>Muscle and Nerve</i> , 2012, 45, 743-745.	2.2	7
126	Skeletal muscle fibrosis develops in response to desmin deletion. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C1609-C1620.	4.6	51

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127	Human skeletal muscle biochemical diversity. <i>Journal of Experimental Biology</i> , 2012, 215, 2551-2559.	1.7	52
128	Passive mechanical properties and related proteins change with botulinum neurotoxin A injection of normal skeletal muscle. <i>Journal of Orthopaedic Research</i> , 2012, 30, 497-502.	2.3	44
129	Effect of desmin knockout on skeletal muscle extracellular matrix organization. <i>FASEB Journal</i> , 2012, 26, 1060.12.	0.5	0
130	Biochemical diversity of human skeletal muscle. <i>FASEB Journal</i> , 2012, 26, 1141.2.	0.5	0
131	Gene Expression Changes After a Single Botox Injection in the Rat Tibialis Anterior Muscle. <i>FASEB Journal</i> , 2012, 26, 1086.12.	0.5	0
132	Quantification of Partial or Complete A4 Pulley Release With FDP Repair in Cadaveric Tendons. <i>Journal of Hand Surgery</i> , 2011, 36, 439-445.	1.6	27
133	ISSLS Prize Winner. <i>Spine</i> , 2011, 36, 1728-1736.	2.0	54
134	Psoas Muscle Architectural Design, In Vivo Sarcomere Length Range, and Passive Tensile Properties Support Its Role as a Lumbar Spine Stabilizer. <i>Spine</i> , 2011, 36, E1666-E1674.	2.0	48
135	Sustained Improvement in the Anal Sphincter Function Following Surgical Plication of Rabbit External Anal Sphincter Muscle. <i>Diseases of the Colon and Rectum</i> , 2011, 54, 1373-1380.	1.3	16
136	Hamstring contractures in children with spastic cerebral palsy result from a stiffer extracellular matrix and increased <i>in vivo</i> sarcomere length. <i>Journal of Physiology</i> , 2011, 589, 2625-2639.	2.9	353
137	Structure and function of the skeletal muscle extracellular matrix. <i>Muscle and Nerve</i> , 2011, 44, 318-331.	2.2	716
138	Whole muscle length-tension relationships are accurately modeled as scaled sarcomeres in rabbit hindlimb muscles. <i>Journal of Biomechanics</i> , 2011, 44, 109-115.	2.1	116
139	Elucidation of extracellular matrix mechanics from muscle fibers and fiber bundles. <i>Journal of Biomechanics</i> , 2011, 44, 771-773.	2.1	150
140	Muscle extracellular matrix applies a transverse stress on fibers with axial strain. <i>Journal of Biomechanics</i> , 2011, 44, 1618-1620.	2.1	31
141	Moment arms of the human digital flexors. <i>Journal of Biomechanics</i> , 2011, 44, 1987-1990.	2.1	16
142	Skeletal muscle design to meet functional demands. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 1466-1476.	4.0	251
143	Method for Decellularizing Skeletal Muscle Without Detergents or Proteolytic Enzymes. <i>Tissue Engineering - Part C: Methods</i> , 2011, 17, 383-389.	2.1	109
144	Anatomy and Mechanics of the Abdominal Muscles. , 2011, , 70-79.		0

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145	Architectural Design and Function of Human Back Muscles. , 2011, , 54-69.		0
146	Tendon Transfer Increases Passive Tension of the Entire Muscle, Fiber Bundle and Single Fiber. The Japanese Journal of Rehabilitation Medicine, 2011, 48, 129-133.	0.0	0
147	Architectural Analysis of Human Abdominal Wall Muscles. Spine, 2010, 36, 1.	2.0	47
148	Regional Myosin Heavy Chain Distribution in Selected Paraspinal Muscles. Spine, 2010, 35, 1265-1270.	2.0	19
149	Asynchronous Muscle and Tendon Adaptation After Surgical Tensioning Procedures. Journal of Bone and Joint Surgery - Series A, 2010, 92, 664-674.	3.0	43
150	A Model of the Lower Limb for Analysis of Human Movement. Annals of Biomedical Engineering, 2010, 38, 269-279.	2.5	659
151	Architectural and morphological assessment of rat abdominal wall muscles: comparison for use as a human model. Journal of Anatomy, 2010, 217, 196-202.	1.5	25
152	Nesprin 1 is critical for nuclear positioning and anchorage. Human Molecular Genetics, 2010, 19, 329-341.	2.9	131
153	Tropomodulin isoforms regulate thin filament pointed-end capping and skeletal muscle physiology. Journal of Cell Biology, 2010, 189, 95-109.	5.2	74
154	Plasticity of Muscle Architecture After Supraspinatus Tears. Journal of Orthopaedic and Sports Physical Therapy, 2010, 40, 729-735.	3.5	49
155	Theoretical Predictions of the Effects of Force Transmission by Desmin on Intersarcomere Dynamics. Biophysical Journal, 2010, 98, 258-266.	0.5	24
156	Mechanical Strength of the Side-to-Side Versus Pulvertaft Weave Tendon Repair. Journal of Hand Surgery, 2010, 35, 540-545.	1.6	102
157	Mechanical Feasibility of Immediate Mobilization of the Brachioradialis Muscle After Tendon Transfer. Journal of Hand Surgery, 2010, 35, 1473-1478.	1.6	21
158	Intermediate Filament and Ecm Mechanics Deduced from Desmin Knockout Muscles. Biophysical Journal, 2010, 98, 545a.	0.5	1
159	Tropomodulin isoforms regulate thin filament pointed-end capping and skeletal muscle physiology. Journal of General Physiology, 2010, 135, i4-i4.	1.9	0
160	Biological and Mechanical Pathologies in Spastic Skeletal Muscle: The Functional Implications of Therapeutic Neurotoxins. , 2009, , 159-171.		0
161	Reduced thin filament length in nebulin-knockout skeletal muscle alters isometric contractile properties. American Journal of Physiology - Cell Physiology, 2009, 296, C1123-C1132.	4.6	63
162	Obscurin determines the architecture of the longitudinal sarcoplasmic reticulum. Journal of Cell Science, 2009, 122, 2640-2650.	2.0	120

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163	Nebulin plays a direct role in promoting strong actin-Myosin interactions. <i>FASEB Journal</i> , 2009, 23, 4117-4125.	0.5	61
164	Correlation between isometric force and intramuscular pressure in rabbit tibialis anterior muscle with an intact anterior compartment. <i>Muscle and Nerve</i> , 2009, 40, 79-85.	2.2	29
165	Are Current Measurements of Lower Extremity Muscle Architecture Accurate?. <i>Clinical Orthopaedics and Related Research</i> , 2009, 467, 1074-1082.	1.5	520
166	Novel transcriptional profile in wrist muscles from cerebral palsy patients. <i>BMC Medical Genomics</i> , 2009, 2, 44.	1.5	84
167	Passive mechanical properties of the lumbar multifidus muscle support its role as a stabilizer. <i>Journal of Biomechanics</i> , 2009, 42, 1384-1389.	2.1	97
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