Ladora V Thompson

List of Publications by Year
in descending order

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73 papers	2,370 citations	236925 25 h-index	223800 46 g-index
74 all docs	74 docs citations	74 times ranked	2833 citing authors

#	Article	IF	Citations
1	Age-related muscle dysfunction. Experimental Gerontology, 2009, 44, 106-111.	2.8	193
2	Altered proteasome function and subunit composition in aged muscle. Archives of Biochemistry and Biophysics, 2004, 421, 67-76.	3.0	176
3	Clinically Relevant Frailty Index for Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69, 1485-1491.	3.6	127
4	Age-induced oxidative stress: how does it influence skeletal muscle quantity and quality?. Journal of Applied Physiology, 2016, 121, 1047-1052.	2.5	122
5	Effects of Age and Training on Skeletal Muscle Physiology and Performance. Physical Therapy, 1994, 74, 71-81.	2.4	117
6	Age-related changes in contractile properties of single skeletal fibers from the soleus muscle. Journal of Applied Physiology, 1999, 86, 881-886.	2.5	115
7	Identification of carbonylated proteins from enriched rat skeletal muscle mitochondria using affinity chromatography-stable isotope labeling and tandem mass spectrometry. Proteomics, 2007, 7, 1150-1163.	2.2	112
8	Skeletal Muscle Adaptations with Age, Inactivity, and Therapeutic Exercise. Journal of Orthopaedic and Sports Physical Therapy, 2002, 32, 44-57.	3.5	91
9	C57BL/6 Neuromuscular Healthspan Scoring System. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2013, 68, 1326-1336.	3.6	73
10	Contribution of oxidative stress to pathology in diaphragm and limb muscles with Duchenne muscular dystrophy. Journal of Muscle Research and Cell Motility, 2013, 34, 1-13.	2.0	71
11	Myosin and actin expression and oxidation in aging muscle. Journal of Applied Physiology, 2006, 101, 1581-1587.	2.5	63
12	C57BL/6 life span study: age-related declines in muscle power production and contractile velocity. Age, 2015, 37, 9773.	3.0	54
13	Voluntary Aerobic Exercise Reverses Frailty in Old Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 1045-1058.	3.6	52
14	Age-related decline in actomyosin structure and function. Experimental Gerontology, 2007, 42, 931-938.	2.8	51
15	Influence of simulated bed rest and intermittent weight bearing on single skeletal muscle fiber function in aged rats. Archives of Physical Medicine and Rehabilitation, 1997, 78, 19-25.	0.9	41
16	Lipotoxicity, aging, and muscle contractility: does fiber type matter?. GeroScience, 2019, 41, 297-308.	4.6	41
17	A continuum of myofibers in adult rabbit extraocular muscle: force, shortening velocity, and patterns of myosin heavy chain colocalization. Journal of Applied Physiology, 2011, 111, 1178-1189.	2.5	37
18	Muscle activity and aging affect myosin structural distribution and force generation in rat fibers. Journal of Applied Physiology, 2004, 96, 498-506.	2.5	36

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19	Sex-specific components of frailty in C57BL/6 mice. Aging, 2019, 11, 5206-5214.	3.1	36
20	Myofiber Length and Three-Dimensional Localization of NMJs in Normal and Botulinum Toxinâ€“Treated Adult Extraocular Muscles. , 2007, 48, 3594.		33
21	Assessing onset, prevalence and survival in mice using a frailty phenotype. Aging, 2018, 10, 4042-4053.	3.1	32
22	Age-dependent effects of caloric restriction on mTOR and ubiquitin-proteasome pathways in skeletal muscles. GeroScience, 2019, 41, 871-880.	4.6	31
23	Clenbuterol in the prevention of muscle atrophy: A study of hindlimb-unweighted rats. Archives of Physical Medicine and Rehabilitation, 2001, 82, 930-934.	0.9	30
24	Myofibrillar myosin ATPase activity in hindlimb muscles from young and aged rats. Mechanisms of Ageing and Development, 2004, 125, 619-627.	4.6	30
25	Effects of hindlimb unweighting and aging on rat semimembranosus muscle and myosin. Journal of Applied Physiology, 2006, 101, 873-880.	2.5	30
26	Oxidative stress, mitochondria and mtDNA-mutator mice. Experimental Gerontology, 2006, 41, 1220-1222.	2.8	30
27	Simultaneously Monitoring the Superoxide in the Mitochondrial Matrix and Extramitochondrial Space by Micellar Electrokinetic Chromatography with Laser-Induced Fluorescence. Analytical Chemistry, 2007, 79, 4588-4594.	6.5	29
28	Direct Sampling from Muscle Cross Sections for Electrophoretic Analysis of Individual Mitochondria. Analytical Chemistry, 2004, 76, 315-321.	6.5	28
29	The fiber-typeâ€”Specific effect of inactivity and intermittent weight-bearing on the gastrocnemius muscle of 30-month-old rats. Archives of Physical Medicine and Rehabilitation, 1998, 79, 658-662.	0.9	26
30	Advanced Glycation End Product in Diabetic Rat Skeletal Muscle in vivo. Pathobiology, 2006, 73, 244-251.	3.8	26
31	Effects of endurance exercise-training on single-fiber contractile properties of insulin-treated streptozotocin-induced diabetic rats. Journal of Applied Physiology, 2005, 99, 472-478.	2.5	21
32	The roles of myosin ATPase activity and myosin light chain relative content in the slowing of type IIB fibers with hindlimb unweighting in rats. American Journal of Physiology - Cell Physiology, 2007, 293, C723-C728.	4.6	20
33	Influence of Insulin and Muscle Fiber Type in NÎµ-(Carboxymethyl)-Lysine Accumulation in Soleus Muscle of Rats with Streptozotocin-Induced Diabetes Mellitus. Pathobiology, 2009, 76, 227-234.	3.8	20
34	Targeted ¹⁸O-labeling for improved proteomic analysis of carbonylated peptides by mass spectrometry. Journal of the American Society for Mass Spectrometry, 2010, 21, 1190-1203.	2.8	20
35	Morphological characteristics of skeletal muscles in relation to gender. Aging Clinical and Experimental Research, 2003, 15, 264-269.	2.9	19
36	Immunoproteasome in animal models of Duchenne muscular dystrophy. Journal of Muscle Research and Cell Motility, 2014, 35, 191-201.	2.0	19

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37	On-column labeling for capillary electrophoretic analysis of individual mitochondria directly sampled from tissue cross sections. Analytical and Bioanalytical Chemistry, 2006, 384, 169-174.	3.7	18
38	Analysis of Superoxide Production in Single Skeletal Muscle Fibers. Analytical Chemistry, 2010, 82, 4570-4576.	6.5	18
39	Frailty: Past, present, and future?. Sports Medicine and Health Science, 2021, 3, 1-10.	2.0	18
40	Calcium sensitivity of force production and myofibrillar ATPase activity in muscles from Thoroughbreds with recurrent exertional rhabdomyolysis. American Journal of Veterinary Research, 2001, 62, 1647-1652.	0.6	17
41	Electron Paramagnetic Resonance: A High-Resolution Tool for Muscle Physiology. Exercise and Sport Sciences Reviews, 2001, 29, 3-6.	3.0	17
42	Age-related differences in the adaptive potential of type I skeletal muscle fibers. Experimental Gerontology, 2005, 40, 227-235.	2.8	17
43	Myosin light chain 3f attenuates ageâ€induced decline in contractile velocity in MHC type II single muscle fibers. Aging Cell, 2012, 11, 203-212.	6.7	17
44	Denervation-Induced Activation of the Ubiquitin-Proteasome System Reduces Skeletal Muscle Quantity Not Quality. PLoS ONE, 2016, 11, e0160839.	2.5	17
45	Effect of Endurance Exercise on Myosin Heavy Chain Isoform Expression in Diabetic Rats with Peripheral Neuropathy. American Journal of Physical Medicine and Rehabilitation, 2005, 84, 770-779.	1.4	16
46	Novel individualized power training protocol preserves physical function in adult and older mice. GeroScience, 2019, 41, 165-183.	4.6	16
47	Carbonic anhydrase III and four-and-a-half LIM protein 1 are preferentially oxidized with muscle unloading. Journal of Applied Physiology, 2008, 105, 1554-1561.	2.5	14
48	Asymmetric superoxide release inside and outside the mitochondria in skeletal muscle under conditions of aging and disuse. Journal of Applied Physiology, 2010, 109, 1133-1139.	2.5	13
49	Skeletal Muscle Plasticity After Hemorrhagic Stroke in Rats. American Journal of Physical Medicine and Rehabilitation, 2012, 91, 965-976.	1.4	13
50	Phenotypic Frailty Assessment in Mice: Development, Discoveries, and Experimental Considerations. Physiology, 2020, 35, 405-414.	3.1	12
51	Inactivity, age, and exercise: single-muscle fiber power generation. Journal of Applied Physiology, 2013, 114, 90-98.	2.5	11
52	Denervation-Induced Activation of the Standard Proteasome and Immunoproteasome. PLoS ONE, 2016, 11, e0166831.	2.5	11
53	Myosin heavy chain isoform immunolabelling in diabetic rats with peripheral neuropathy. Acta Histochemica, 2005, 107, 221-229.	1.8	10
54	Downhill exercise alters immunoproteasome content in mouse skeletal muscle. Cell Stress and Chaperones, 2018, 23, 507-517.	2.9	10

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55	Non-weight bearing-induced muscle weakness: the role of myosin quantity and quality in MHC type II fibers. American Journal of Physiology - Cell Physiology, 2014, 307, C190-C194.	4.6	8
56	Skeletal muscle denervation investigations: selecting an experimental control wisely. American Journal of Physiology - Cell Physiology, 2019, 316, C456-C461.	4.6	8
57	Physiological Systems in Promoting Frailty. , 2022, 12, 3575-3620.		8
58	Enzymatic alterations in single Type IIB skeletal muscle fibers with inactivity and exercise in 12- and 30-month-old rats. Aging Clinical and Experimental Research, 2002, 14, 347-353.	2.9	6
59	The Effects of Non-Weight Bearing on Skeletal Muscle in Older Rats: an Interrupted Bout versus an Uninterrupted Bout. Biological Research for Nursing, 2004, 5, 195-202.	1.9	5
60	Estimating relative carbonyl levels in muscle microstructures by fluorescence imaging. Analytical and Bioanalytical Chemistry, 2008, 391, 2591-2598.	3.7	5
61	Differential effects of mild therapeutic exercise during a period of inactivity on power generation in soleus type I single fibers with age. Journal of Applied Physiology, 2012, 112, 1752-1761.	2.5	4
62	Semi-automated image analysis: detecting carbonylation in subcellular regions of skeletal muscle. Analytical and Bioanalytical Chemistry, 2011, 400, 213-222.	3.7	3
63	Distinct Patterns of Fiber Type Adaptation in Rat Hindlimb Muscles 4 Weeks After Hemorrhagic Stroke. American Journal of Physical Medicine and Rehabilitation, 2019, 98, 266-274.	1.4	2
64	Skeletal Muscle Fatigue. Exercise and Sport Sciences Reviews, 2009, 37, 2.	3.0	1
65	Increasing myosin light chain 3f (MLC3f) protects against a decline in contractile velocity. PLoS ONE, 2019, 14, e0214982.	2.5	1
66	Short-Term ONX-0914 Administration: Performance and Muscle Phenotype in Mdx Mice. International Journal of Environmental Research and Public Health, 2020, 17, 5211.	2.6	1
67	Effects of Inactivity on Glycolytic Capacity of Single Skeletal Muscle Fibers in Adult and Aged Rats. Biological Research for Nursing, 2001, 3, 88-95.	1.9	1
68	Skeletal Muscle Adaptations and Rehabilitation. Journal of Orthopaedic and Sports Physical Therapy, 2002, 32, 34-35.	3.5	0
69	Poster 46. Archives of Physical Medicine and Rehabilitation, 2003, 84, E13-E14.	0.9	0
70	New approaches in aging research. Reviews in Clinical Gerontology, 2006, 16, 89-97.	0.5	0
71	Seeking the Fountain of Youth. Exercise and Sport Sciences Reviews, 2011, 39, 112.	3.0	0
72	Activation of the Ubiquitin-Proteasome System Reduces Function in Denervated Skeletal Muscle. Medicine and Science in Sports and Exercise, 2016, 48, 979.	0.4	0

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73	Single Muscle Fiber Power Generation with Nonâ€Weightbearing Conditions: Does Muscle of Origin Play a Role?. FASEB Journal, 2013, 27, lb711.	0.5	0