

Sue C Bodine

List of Publications by Year in descending order

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101
papers

13,160
citations

57758

44
h-index

40979

93
g-index

111
all docs

111
docs citations

111
times ranked

13933
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of Ubiquitin Ligases Required for Skeletal Muscle Atrophy. <i>Science</i> , 2001, 294, 1704-1708.	12.6	2,935
2	Akt/mTOR pathway is a crucial regulator of skeletal muscle hypertrophy and can prevent muscle atrophy in vivo. <i>Nature Cell Biology</i> , 2001, 3, 1014-1019.	10.3	2,153
3	Mediation of IGF-1-induced skeletal myotube hypertrophy by PI(3)K/Akt/mTOR and PI(3)K/Akt/GSK3 pathways. <i>Nature Cell Biology</i> , 2001, 3, 1009-1013.	10.3	1,331
4	Skeletal muscle atrophy and the E3 ubiquitin ligases MuRF1 and MAFbx/atrogin-1. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 307, E469-E484.	3.5	735
5	Understanding the Cellular and Molecular Mechanisms of Physical Activity-Induced Health Benefits. <i>Cell Metabolism</i> , 2015, 22, 4-11.	16.2	345
6	Architectural, histochemical, and contractile characteristics of a unique biarticular muscle: the cat semitendinosus.. <i>Journal of Neurophysiology</i> , 1982, 48, 192-201.	1.8	315
7	Disuse-induced muscle wasting. <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 2200-2208.	2.8	288
8	The glucocorticoid receptor and FOXO1 synergistically activate the skeletal muscle atrophy-associated MuRF1 gene. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008, 295, E785-E797.	3.5	278
9	Control of Ser2448 Phosphorylation in the Mammalian Target of Rapamycin by Insulin and Skeletal Muscle Load. <i>Journal of Biological Chemistry</i> , 2002, 277, 17657-17662.	3.4	234
10	A functional insulin-like growth factor receptor is not necessary for load-induced skeletal muscle hypertrophy. <i>Journal of Physiology</i> , 2008, 586, 283-291.	2.9	209
11	Muscle sparing in muscle RING finger 1 null mice: response to synthetic glucocorticoids. <i>Journal of Physiology</i> , 2011, 589, 4759-4776.	2.9	167
12	Maximal force as a function of anatomical features of motor units in the cat tibialis anterior. <i>Journal of Neurophysiology</i> , 1987, 57, 1730-1745.	1.8	157
13	The Histone Deacetylase HDAC4 Connects Neural Activity to Muscle Transcriptional Reprogramming. <i>Journal of Biological Chemistry</i> , 2007, 282, 33752-33759.	3.4	156
14	Age-related deficits in skeletal muscle recovery following disuse are associated with neuromuscular junction instability and ER stress, not impaired protein synthesis. <i>Aging</i> , 2016, 8, 127-146.	3.1	152
15	Rapamycin inhibits the growth and muscle-sparing effects of clenbuterol. <i>Journal of Applied Physiology</i> , 2007, 102, 740-747.	2.5	150
16	Skeletal Muscle Mechanics: Implications for Rehabilitation. <i>Physical Therapy</i> , 1993, 73, 844-856.	2.4	149
17	Molecular Transducers of Physical Activity Consortium (MoTrPAC): Mapping the Dynamic Responses to Exercise. <i>Cell</i> , 2020, 181, 1464-1474.	28.9	147
18	mTOR Signaling and the Molecular Adaptation to Resistance Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2006, 38, 1950-1957.	0.4	140

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19	Soleus motor units in chronic spinal transected cats: physiological and morphological alterations. <i>Journal of Neurophysiology</i> , 1986, 55, 1202-1220.	1.8	137
20	Acute resistance exercise activates rapamycin-sensitive and -insensitive mechanisms that control translational activity and capacity in skeletal muscle. <i>Journal of Physiology</i> , 2016, 594, 453-468.	2.9	129
21	Physiological characterization of taxol-induced large-fiber sensory neuropathy in the rat. <i>Annals of Neurology</i> , 1998, 43, 46-55.	5.3	124
22	Control of skeletal muscle atrophy in response to disuse: clinical/preclinical contentions and fallacies of evidence. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 311, E594-E604.	3.5	117
23	Glucocorticoids and Skeletal Muscle. <i>Advances in Experimental Medicine and Biology</i> , 2015, 872, 145-176.	1.6	111
24	Upregulation of proteasome activity in muscle RING finger 1 null mice following denervation. <i>FASEB Journal</i> , 2012, 26, 2986-2999.	0.5	98
25	Maintenance of muscle mass and load-induced growth in Muscle <sc>RING</sc> Finger 1 null mice with age. <i>Aging Cell</i> , 2014, 13, 92-101.	6.7	92
26	Resistance exercise, muscle loading/unloading and the control of muscle mass. <i>Essays in Biochemistry</i> , 2006, 42, 61-74.	4.7	86
27	A Critical Role for Muscle Ring Finger-1 in Acute Lung Injury-associated Skeletal Muscle Wasting. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2012, 185, 825-834.	5.6	85
28	Muscle-specific and age-related changes in protein synthesis and protein degradation in response to hindlimb unloading in rats. <i>Journal of Applied Physiology</i> , 2017, 122, 1336-1350.	2.5	85
29	Chronic high fat feeding attenuates load-induced hypertrophy in mice. <i>Journal of Physiology</i> , 2009, 587, 5753-5765.	2.9	84
30	A cell-autonomous role for the glucocorticoid receptor in skeletal muscle atrophy induced by systemic glucocorticoid exposure. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 302, E1210-E1220.	3.5	83
31	Western Blotting Inaccuracies with Unverified Antibodies: Need for a Western Blotting Minimal Reporting Standard (WBMRS). <i>PLoS ONE</i> , 2015, 10, e0135392.	2.5	79
32	Localization and Regulation of MuSK at the Neuromuscular Junction. <i>Developmental Biology</i> , 1998, 199, 309-319.	2.0	77
33	Mechanical and morphological properties of chronically inactive cat tibialis anterior motor units. <i>Journal of Physiology</i> , 1991, 444, 175-192.	2.9	76
34	Proteomic analysis of rat soleus muscle undergoing hindlimb suspension-induced atrophy and reweighting hypertrophy. <i>Proteomics</i> , 2002, 2, 543-550.	2.2	72
35	Muscle hypertrophy is associated with increases in proteasome activity that is independent of MuRF1 and MAFbx expression. <i>Frontiers in Physiology</i> , 2014, 5, 69.	2.8	70
36	Evaluation of Akt/mTOR activity in muscle atrophy after rotator cuff tears in a rat model. <i>Journal of Orthopaedic Research</i> , 2012, 30, 1440-1446.	2.3	67

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37	mTOR regulates fatty infiltration through SREBP ¹ and PPAR ³ after a combined massive rotator cuff tear and suprascapular nerve injury in rats. <i>Journal of Orthopaedic Research</i> , 2013, 31, 724-730.	2.3	63
38	Age-Related Deficit in Load-Induced Skeletal Muscle Growth. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2009, 64A, 618-628.	3.6	62
39	Muscle-specific changes in protein synthesis with aging and reloading after disuse atrophy. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2019, 10, 1195-1209.	7.3	60
40	Skeletal Muscle Atrophy: Discovery of Mechanisms and Potential Therapies. <i>Physiology</i> , 2019, 34, 232-239.	3.1	57
41	Skeletal muscle regeneration after injury: An overview. <i>Journal of Voice</i> , 1994, 8, 53-62.	1.5	53
42	UBR5 is a novel E3 ubiquitin ligase involved in skeletal muscle hypertrophy and recovery from atrophy. <i>Journal of Physiology</i> , 2019, 597, 3727-3749.	2.9	53
43	Altered gene expression patterns in muscle ring finger 1 null mice during denervation- and dexamethasone-induced muscle atrophy. <i>Physiological Genomics</i> , 2013, 45, 1168-1185.	2.3	51
44	Changes in myosin mRNA and protein expression in denervated rat soleus and tibialis anterior. <i>FEBS Journal</i> , 1998, 256, 45-50.	0.2	50
45	CrossTalk opposing view: The dominant mechanism causing disuse muscle atrophy is proteolysis. <i>Journal of Physiology</i> , 2014, 592, 5345-5347.	2.9	50
46	Activating transcription factor 4 (ATF4) promotes skeletal muscle atrophy by forming a heterodimer with the transcriptional regulator C/EBP ² . <i>Journal of Biological Chemistry</i> , 2020, 295, 2787-2803.	3.4	45
47	Molecular brakes regulating mTORC1 activation in skeletal muscle following synergist ablation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 307, E365-E373.	3.5	38
48	Age-related Differences in Dystrophin: Impact on Force Transfer Proteins, Membrane Integrity, and Neuromuscular Junction Stability. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016, 72, glw109.	3.6	38
49	Functional recovery following neuroorrhaphy of the rat sciatic nerve by epineurial repair compared with tubulization. <i>Journal of Orthopaedic Research</i> , 1997, 15, 664-669.	2.3	37
50	Consistent repeated M- and H-wave recording in the hind limb of rats. , 1998, 21, 1405-1413.		37
51	Hibernation: The search for treatments to prevent disuse-induced skeletal muscle atrophy. <i>Experimental Neurology</i> , 2013, 248, 129-135.	4.1	35
52	Analysis of Skeletal Muscle Hypertrophy in Models of Increased Loading. <i>Methods in Molecular Biology</i> , 2012, 798, 213-229.	0.9	35
53	Proteomic analysis of rat soleus and tibialis anterior muscle following immobilization. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002, 769, 323-332.	2.3	34
54	Velocity, force, power, and Ca ²⁺ sensitivity of fast and slow monkey skeletal muscle fibers. <i>Journal of Applied Physiology</i> , 1998, 84, 1776-1787.	2.5	32

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55	Extracellular matrix scaffolds for treatment of large volume muscle injuries: A review. <i>Veterinary Surgery</i> , 2018, 47, 524-535.	1.0	32
56	Age-dependent bone loss and recovery during hindlimb unloading and subsequent reloading in rats. <i>BMC Musculoskeletal Disorders</i> , 2018, 19, 223.	1.9	32
57	Contribution of mechanical unloading to trabecular bone loss following noninvasive knee injury in mice. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1680-1687.	2.3	30
58	Electromyographic (EMG) amplitude patterns in the proximal and distal compartments of the cat semitendinosus during various motor tasks. <i>Brain Research</i> , 1989, 479, 56-64.	2.2	29
59	Identification of a novel myosin heavy chain gene expressed in the rat larynx. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1996, 1306, 153-159.	2.4	29
60	ULK2 is essential for degradation of ubiquitinated protein aggregates and homeostasis in skeletal muscle. <i>FASEB Journal</i> , 2019, 33, 11735-12745.	0.5	28
61	Edward F. Adolph Distinguished Lecture. Skeletal muscle atrophy: Multiple pathways leading to a common outcome. <i>Journal of Applied Physiology</i> , 2020, 129, 272-282.	2.5	28
62	Identification of the MuRF1 Skeletal Muscle Ubiquitylome Through Quantitative Proteomics. <i>Function</i> , 2021, 2, zqab029.	2.3	28
63	Role of contraction duration in inducing fast-to-slow contractile and metabolic protein and functional changes in engineered muscle. <i>Journal of Cellular Physiology</i> , 2015, 230, 2489-2497.	4.1	27
64	Normal Ribosomal Biogenesis but Shortened Protein Synthetic Response to Acute Eccentric Resistance Exercise in Old Skeletal Muscle. <i>Frontiers in Physiology</i> , 2018, 9, 1915.	2.8	24
65	Tensile properties of the neurotomy site in the rat sciatic nerve. <i>Journal of Hand Surgery</i> , 1998, 23, 465-470.	1.6	22
66	Exercise prevents impaired autophagy and proteostasis in a model of neurogenic myopathy. <i>Scientific Reports</i> , 2018, 8, 11818.	3.3	22
67	Alterations in the muscle force transfer apparatus in aged rats during unloading and reloading: impact of microRNA-1. <i>Journal of Physiology</i> , 2018, 596, 2883-2900.	2.9	21
68	Cloning and in Situ Hybridization of Type 2A and 2B Rat Skeletal Muscle Myosin Tail Region: Implications for Filament Assembly. <i>Biochemical and Biophysical Research Communications</i> , 1993, 197, 1312-1318.	2.1	20
69	Knockdown of the E3 ubiquitin ligase UBR5 and its role in skeletal muscle anabolism. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 320, C45-C56.	4.6	20
70	The Potential Mechanisms of Exercise-induced Cognitive Protection: A Literature Review. <i>Current Pharmaceutical Design</i> , 2018, 24, 1827-1831.	1.9	20
71	Identification and characterization of Fbxl22, a novel skeletal muscle atrophy-promoting E3 ubiquitin ligase. <i>American Journal of Physiology - Cell Physiology</i> , 2020, 319, C700-C719.	4.6	19
72	Evidence of incomplete neural control of motor unit properties in cat tibialis anterior after self-reinnervation. <i>Journal of Physiology</i> , 1993, 472, 103-125.	2.9	16

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73	Effect of severe short-term malnutrition on diaphragm muscle signal transduction pathways influencing protein turnover. <i>Journal of Applied Physiology</i> , 2006, 100, 1799-1806.	2.5	16
74	Cardiac proteasome activity in muscle ring finger-1 null mice at rest and following synthetic glucocorticoid treatment. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 301, E967-E977.	3.5	15
75	The effects of diet composition and chronic obesity on muscle growth and function. <i>Journal of Applied Physiology</i> , 2021, 130, 124-138.	2.5	15
76	An American Physiological Society cross-journal Call for Papers on "Inter-Organ Communication in Homeostasis and Disease". <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021, 321, L42-L49.	2.9	13
77	An investigation of p53 in skeletal muscle aging. <i>Journal of Applied Physiology</i> , 2019, 127, 1075-1084.	2.5	12
78	Maintenance of muscle mass in adult male mice is independent of testosterone. <i>PLoS ONE</i> , 2021, 16, e0240278.	2.5	12
79	Matrix metalloproteinase-2 plays a critical role in overload induced skeletal muscle hypertrophy. <i>Muscles, Ligaments and Tendons Journal</i> , 2014, 4, 446-54.	0.3	12
80	Myosin heavy chain mRNA and protein expression in single fibers of the rat soleus following reinnervation. <i>Neuroscience Letters</i> , 1996, 215, 13-16.	2.1	9
81	β 2 adrenoceptor activation improves skeletal muscle autophagy in neurogenic myopathy. <i>FASEB Journal</i> , 2020, 34, 5628-5641.	0.5	9
82	Articles with impact: insights into 10 years of research with machine learning. <i>Journal of Applied Physiology</i> , 2020, 129, 967-979.	2.5	8
83	Rebuttal from Michael B. Reid, Andrew R. Judge and Sue C. Bodine. <i>Journal of Physiology</i> , 2014, 592, 5351-5351.	2.9	7
84	An American Physiological Society cross-journal Call for Papers on "Deconstructing Organs: Single-Cell Analyses, Decellularized Organs, Organoids, and Organ-on-a-Chip Models". <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 319, L266-L272.	2.9	7
85	Ubiquitin Ligases in Longevity and Aging Skeletal Muscle. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7602.	4.1	7
86	Applied physiology: Research that makes a difference. <i>Journal of Applied Physiology</i> , 2017, 123, 1-1.	2.5	4
87	World Lung Day 2020 at the <i>Journal of Applied Physiology</i> and the <i>American Journal of Physiology-Lung Cellular and Molecular Physiology</i> . <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 319, L534-L537.	2.9	4
88	Matrix metalloproteinase-2 plays a critical role in overload induced skeletal muscle hypertrophy. <i>Muscles, Ligaments and Tendons Journal</i> , 2014, 4, 362-70.	0.3	4
89	Reduced Ia-Afferent-Mediated Hoffman Reflex in Streptozotocin-Induced Diabetic Rats. <i>Experimental Neurology</i> , 2001, 172, 220-227.	4.1	3
90	Activation of Crtc2/Creb1 in skeletal muscle enhances weight loss during intermittent fasting. <i>FASEB Journal</i> , 2021, 35, e21999.	0.5	3

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91	What does the transcriptome signature of resistance exercise tell us about aging and skeletal muscle adaptation?. <i>Journal of Applied Physiology</i> , 2012, 112, 1621-1622.	2.5	1
92	A new cover and updated scope for the <i>Journal of Applied Physiology</i> . <i>Journal of Applied Physiology</i> , 2018, 124, 257-258.	2.5	1
93	Development of congestive heart failure in mice with a null deletion of MAFbx. <i>FASEB Journal</i> , 2010, 24, 1036.17.	0.5	1
94	The MuRF1 Promoter is Synergistically Activated by the Glucocorticoid Receptor and the Forkhead Family Member, FoxO1. <i>FASEB Journal</i> , 2006, 20, A391.	0.5	0
95	Decreased Activation of Akt/mTOR/GSK3 Signaling in Aged Rats Following Functional Overload. <i>FASEB Journal</i> , 2006, 20, A383.	0.5	0
96	Lack of Cardiac Response to Running Wheel in MuRF1 KO Mice. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 69-70.	0.4	0
97	High fat feeding does not impair muscle growth in MuRF1 KO mice (1163.17). <i>FASEB Journal</i> , 2014, 28, 1163.17.	0.5	0
98	Testosterone Is Not Required for The Maintenance of Muscle Mass in Fully Matured and Elderly Male Mice. <i>FASEB Journal</i> , 2019, 33, 868.8.	0.5	0
99	Overexpression of a Novel E3 Ligase leads to a Skeletal Muscle Myopathy through Alterations in Cytoskeleton Proteins and Enhanced Protein Degradation. <i>FASEB Journal</i> , 2019, 33, 700.2.	0.5	0
100	Transition from academia to private industry.....and back. <i>Physiologist</i> , 2011, 54, 64-5.	0.0	0
101	Overexpression of Multiple E3 Ubiquitin Ligases in Gastrocnemius Muscles from Mice. <i>FASEB Journal</i> , 2022, 36, .	0.5	0