

Elisabeth R Barton

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

2,508
citations

257450

24
h-index

214800

47
g-index

53
all docs

53
docs citations

53
times ranked

3815
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic and pharmacologic inhibition of mitochondrial-dependent necrosis attenuates muscular dystrophy. <i>Nature Medicine</i> , 2008, 14, 442-447.	30.7	324
2	SMASH – semi-automatic muscle analysis using segmentation of histology: a MATLAB application. <i>Skeletal Muscle</i> , 2014, 4, 21.	4.2	171
3	Viral expression of insulin-like growth factor-I enhances muscle hypertrophy in resistance-trained rats. <i>Journal of Applied Physiology</i> , 2004, 96, 1097-1104.	2.5	170
4	A Zebrafish Embryo Culture System Defines Factors that Promote Vertebrate Myogenesis across Species. <i>Cell</i> , 2013, 155, 909-921.	28.9	144
5	Role of IGF-I signaling in muscle bone interactions. <i>Bone</i> , 2015, 80, 79-88.	2.9	122
6	Viral expression of insulin-like growth factor-I isoforms promotes different responses in skeletal muscle. <i>Journal of Applied Physiology</i> , 2006, 100, 1778-1784.	2.5	108
7	The ABCs of IGF-I isoforms: impact on muscle hypertrophy and implications for repair. <i>Applied Physiology, Nutrition and Metabolism</i> , 2006, 31, 791-797.	1.9	108
8	Collagen content does not alter the passive mechanical properties of fibrotic skeletal muscle in mdx mice. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 306, C889-C898.	4.6	105
9	Osteopontin ablation ameliorates muscular dystrophy by shifting macrophages to a pro-regenerative phenotype. <i>Journal of Cell Biology</i> , 2016, 213, 275-288.	5.2	102
10	Systemic administration of L-arginine benefits mdx skeletal muscle function. <i>Muscle and Nerve</i> , 2005, 32, 751-760.	2.2	98
11	Rat supraspinatus muscle atrophy after tendon detachment. <i>Journal of Orthopaedic Research</i> , 2005, 23, 259-265.	2.3	93
12	Regulation of fibrosis in muscular dystrophy. <i>Matrix Biology</i> , 2018, 68-69, 602-615.	3.6	87
13	Impact of sarcoglycan complex on mechanical signal transduction in murine skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 290, C411-C419.	4.6	72
14	The insulin-like growth factor (IGF)-I E-peptides are required for isoform-specific gene expression and muscle hypertrophy after local IGF-I production. <i>Journal of Applied Physiology</i> , 2010, 108, 1069-1076.	2.5	72
15	Deletion of muscle GRP94 impairs both muscle and body growth by inhibiting local IGF production. <i>FASEB Journal</i> , 2012, 26, 3691-3702.	0.5	69
16	Increased collagen cross-linking is a signature of dystrophin-deficient muscle. <i>Muscle and Nerve</i> , 2016, 54, 71-78.	2.2	66
17	Optimizing IGF-I for skeletal muscle therapeutics. <i>Growth Hormone and IGF Research</i> , 2014, 24, 157-163.	1.1	56
18	A Key Role for the Ubiquitin Ligase UBR4 in Myofiber Hypertrophy in Drosophila and Mice. <i>Cell Reports</i> , 2019, 28, 1268-1281.e6.	6.4	56

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19	Targeting latent TGF β 2 release in muscular dystrophy. <i>Science Translational Medicine</i> , 2014, 6, 259ra144.	12.4	41
20	Muscle hypertrophy induced by myostatin inhibition accelerates degeneration in dysferlinopathy. <i>Human Molecular Genetics</i> , 2015, 24, 5711-5719.	2.9	34
21	Deletion of muscle IGF β 1 transiently impairs growth and progressively disrupts glucose homeostasis in male mice. <i>FASEB Journal</i> , 2019, 33, 181-194.	0.5	30
22	Antagonistic control of myofiber size and muscle protein quality control by the ubiquitin ligase UBR4 during aging. <i>Nature Communications</i> , 2021, 12, 1418.	12.8	30
23	Caspase-12 ablation preserves muscle function in the mdx mouse. <i>Human Molecular Genetics</i> , 2014, 23, 5325-5341.	2.9	29
24	Diaphragm displays early and progressive functional deficits in dysferlin β 1-deficient mice. <i>Muscle and Nerve</i> , 2010, 42, 22-29.	2.2	26
25	Insulin β -Like Growth Factor I Regulation and Its Actions in Skeletal Muscle. , 2018, 9, 413-438.		26
26	Whole Body Periodic Acceleration Is an Effective Therapy to Ameliorate Muscular Dystrophy in mdx Mice. <i>PLoS ONE</i> , 2014, 9, e106590.	2.5	25
27	Matrix Metalloproteinase 13 from Satellite Cells is Required for Efficient Muscle Growth and Regeneration. <i>Cellular Physiology and Biochemistry</i> , 2020, 54, 333-353.	1.6	24
28	Selective Retinoic Acid Receptor β 3 Agonists Promote Repair of Injured Skeletal Muscle in Mouse. <i>American Journal of Pathology</i> , 2015, 185, 2495-2504.	3.8	22
29	Mature IGF-I excels in promoting functional muscle recovery from disuse atrophy compared with pro-IGF-IA. <i>Journal of Applied Physiology</i> , 2014, 116, 797-806.	2.5	19
30	Masticatory muscles of mouse do not undergo atrophy in space. <i>FASEB Journal</i> , 2015, 29, 2769-2779.	0.5	19
31	Gamma-sarcoglycan is required for the response of archvillin to mechanical stimulation in skeletal muscle. <i>Human Molecular Genetics</i> , 2015, 24, 2470-2481.	2.9	17
32	The ties that bind: functional clusters in limb-girdle muscular dystrophy. <i>Skeletal Muscle</i> , 2020, 10, 22.	4.2	17
33	Review Article: Mechanisms and Strategies to Counter Muscle Atrophy. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2003, 58, M923-M926.	3.6	16
34	Deleting nebulin's C-terminus reveals its importance to sarcomeric structure and function and is sufficient to invoke nemaline myopathy. <i>Human Molecular Genetics</i> , 2019, 28, 1709-1725.	2.9	15
35	Restoration of β 3-Sarcoglycan Localization and Mechanical Signal Transduction Are Independent in Murine Skeletal Muscle. <i>Journal of Biological Chemistry</i> , 2010, 285, 17263-17270.	3.4	14
36	Absence of β 3-sarcoglycan alters the response of p70S6 kinase to mechanical perturbation in murine skeletal muscle. <i>Skeletal Muscle</i> , 2014, 4, 13.	4.2	14

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37	Hesperidin Promotes Osteogenesis and Modulates Collagen Matrix Organization and Mineralization In Vitro and In Vivo. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3223.	4.1	14
38	IGF expression in HPV-related and HPV-unrelated human cancer cells. <i>Oncology Reports</i> , 2014, 32, 893-900.	2.6	11
39	Actions and interactions of IGF-I and MMPs during muscle regeneration. <i>Seminars in Cell and Developmental Biology</i> , 2021, 119, 11-22.	5.0	10
40	Pharmacologic approaches to prevent skeletal muscle atrophy after spinal cord injury. <i>Current Opinion in Pharmacology</i> , 2021, 60, 193-199.	3.5	9
41	The IGF axis in HPV associated cancers. <i>Mutation Research - Reviews in Mutation Research</i> , 2017, 772, 67-77.	5.5	6
42	Functional muscle hypertrophy by increased insulin-like growth factor 1 does not require dysferlin. <i>Muscle and Nerve</i> , 2019, 60, 464-473.	2.2	4
43	Contrast-Enhanced Near-Infrared Optical Imaging Detects Exacerbation and Amelioration of Murine Muscular Dystrophy. <i>Molecular Imaging</i> , 2017, 16, 153601211773243.	1.4	3
44	Deletion of muscle <i>Igf1</i> exacerbates disuse atrophy weakness in mice. <i>Journal of Applied Physiology</i> , 2021, 131, 881-894.	2.5	3
45	Generation and characterization of monoclonal antibodies that recognize human and murine supervillin protein isoforms. <i>PLoS ONE</i> , 2018, 13, e0205910.	2.5	2
46	The impact of hindlimb disuse on sepsis-induced myopathy in mice. <i>Physiological Reports</i> , 2021, 9, e14979.	1.7	2
47	Novel β -sarcoglycan interactors in murine muscle membranes. <i>Skeletal Muscle</i> , 2022, 12, 2.	4.2	2
48	Loss of Muscle IGF Production Delays Functional Recovery of Skeletal Muscle Following Disuse. <i>FASEB Journal</i> , 2019, 33, 700.23.	0.5	1
49	A calpain inhibitor fails to rescue dystrophic skeletal muscle. <i>FASEB Journal</i> , 2007, 21, A940.	0.5	0
50	Catalase overexpression protects dystrophic skeletal muscle. <i>FASEB Journal</i> , 2008, 22, 754.6.	0.5	0
51	Resveratrol feeding may be therapeutic for dystrophic skeletal muscle. <i>FASEB Journal</i> , 2009, 23, 600.2.	0.5	0
52	Postnatal PGC-1 α overexpression improves muscle function in a mouse model of Duchenne muscular dystrophy. <i>FASEB Journal</i> , 2009, 23, 600.3.	0.5	0
53	Long-term wheel running improves cardiac function but has negative consequences for diaphragmatic function in the mdx mouse. <i>FASEB Journal</i> , 2013, 27, 712.16.	0.5	0