Elisabeth R Barton

List of Publications by Year
in descending order

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	Novel Î³-sarcoglycan interactors in murine muscle membranes. Skeletal Muscle, 2022, 12, 2.	4.2	2
2	Hesperidin Promotes Osteogenesis and Modulates Collagen Matrix Organization and Mineralization In Vitro and In Vivo. International Journal of Molecular Sciences, 2021, 22, 3223.	4.1	14
3	Antagonistic control of myofiber size and muscle protein quality control by the ubiquitin ligase UBR4 during aging. Nature Communications, 2021, 12, 1418.	12.8	30
4	Actions and interactions of IGF-I and MMPs during muscle regeneration. Seminars in Cell and Developmental Biology, 2021, 119, 11-22.	5.0	10
5	The impact of hindlimb disuse on sepsisâ€induced myopathy in mice. Physiological Reports, 2021, 9, e14979.	1.7	2
6	Deletion of muscle <i>Igf1</i> exacerbates disuse atrophy weakness in mice. Journal of Applied Physiology, 2021, 131, 881-894.	2.5	3
7	Pharmacologic approaches to prevent skeletal muscle atrophy after spinal cord injury. Current Opinion in Pharmacology, 2021, 60, 193-199.	3.5	9
8	The ties that bind: functional clusters in limb-girdle muscular dystrophy. Skeletal Muscle, 2020, 10, 22.	4.2	17
9	Matrix Metalloproteinase 13 from Satellite Cells is Required for Efficient Muscle Growth and Regeneration. Cellular Physiology and Biochemistry, 2020, 54, 333-353.	1.6	24
10	Deletion of muscle IGFâ€I transiently impairs growth and progressively disrupts glucose homeostasis in male mice. FASEB Journal, 2019, 33, 181-194.	0.5	30
11	A Key Role for the Ubiquitin Ligase UBR4 in Myofiber Hypertrophy in Drosophila and Mice. Cell Reports, 2019, 28, 1268-1281.e6.	6.4	56
12	Functional muscle hypertrophy by increased insulinâ€like growth factor 1 does not require dysferlin. Muscle and Nerve, 2019, 60, 464-473.	2.2	4
13	Deleting nebulin's C-terminus reveals its importance to sarcomeric structure and function and is sufficient to invoke nemaline myopathy. Human Molecular Genetics, 2019, 28, 1709-1725.	2.9	15
14	Loss of Muscle IGFâ€I Production Delays Functional Recovery of Skeletal Muscle Following Disuse. FASEB Journal, 2019, 33, 700.23.	0.5	1
15	Regulation of fibrosis in muscular dystrophy. Matrix Biology, 2018, 68-69, 602-615.	3.6	87
16	Insulinâ€Like Growth Factor I Regulation and Its Actions in Skeletal Muscle. , 2018, 9, 413-438.		26
17	Generation and characterization of monoclonal antibodies that recognize human and murine supervillin protein isoforms. PLoS ONE, 2018, 13, e0205910.	2.5	2
18	The IGF axis in HPV associated cancers. Mutation Research - Reviews in Mutation Research, 2017, 772, 67-77.	5.5	6

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19	Contrast-Enhanced Near-Infrared Optical Imaging Detects Exacerbation and Amelioration of Murine Muscular Dystrophy. Molecular Imaging, 2017, 16, 153601211773243.	1.4	3
20	Osteopontin ablation ameliorates muscular dystrophy by shifting macrophages to a pro-regenerative phenotype. Journal of Cell Biology, 2016, 213, 275-288.	5.2	102
21	Increased collagen crossâ€linking is a signature of dystrophinâ€deficient muscle. Muscle and Nerve, 2016, 54, 71-78.	2.2	66
22	Muscle hypertrophy induced by myostatin inhibition accelerates degeneration in dysferlinopathy. Human Molecular Genetics, 2015, 24, 5711-5719.	2.9	34
23	Gamma-sarcoglycan is required for the response of archvillin to mechanical stimulation in skeletal muscle. Human Molecular Genetics, 2015, 24, 2470-2481.	2.9	17
24	Masticatory muscles of mouse do not undergo atrophy in space. FASEB Journal, 2015, 29, 2769-2779.	0.5	19
25	Selective Retinoic Acid Receptor Î³ Agonists Promote Repair of Injured Skeletal Muscle in Mouse. American Journal of Pathology, 2015, 185, 2495-2504.	3.8	22
26	Role of IGF-I signaling in muscle bone interactions. Bone, 2015, 80, 79-88.	2.9	122
27	Whole Body Periodic Acceleration Is an Effective Therapy to Ameliorate Muscular Dystrophy in mdx Mice. PLoS ONE, 2014, 9, e106590.	2.5	25
28	Collagen content does not alter the passive mechanical properties of fibrotic skeletal muscle in<i>mdx</i>mice. American Journal of Physiology - Cell Physiology, 2014, 306, C889-C898.	4.6	105
29	Targeting latent TGFÎ² release in muscular dystrophy. Science Translational Medicine, 2014, 6, 259ra144.	12.4	41
30	SMASH â€" semi-automatic muscle analysis using segmentation of histology: a MATLAB application. Skeletal Muscle, 2014, 4, 21.	4.2	171
31	Mature IGF-I excels in promoting functional muscle recovery from disuse atrophy compared with pro-IGF-IA. Journal of Applied Physiology, 2014, 116, 797-806.	2.5	19
32	Caspase-12 ablation preserves muscle function in the mdx mouse. Human Molecular Genetics, 2014, 23, 5325-5341.	2.9	29
33	Optimizing IGF-I for skeletal muscle therapeutics. Growth Hormone and IGF Research, 2014, 24, 157-163.	1.1	56
34	Absence of Î³-sarcoglycan alters the response of p70S6 kinase to mechanical perturbation in murine skeletal muscle. Skeletal Muscle, 2014, 4, 13.	4.2	14
35	IGF expression in HPV-related and HPV-unrelated human cancer cells. Oncology Reports, 2014, 32, 893-900.	2.6	11
36	A Zebrafish Embryo Culture System Defines Factors that Promote Vertebrate Myogenesis across Species. Cell, 2013, 155, 909-921.	28.9	144

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37	Longâ€term wheel running improves cardiac function but has negative consequences for diaphragmatic function in the mdx mouse. FASEB Journal, 2013, 27, 712.16.	0.5	0
38	Deletion of muscle GRP94 impairs both muscle and body growth by inhibiting local IGF production. FASEB Journal, 2012, 26, 3691-3702.	0.5	69
39	Diaphragm displays early and progressive functional deficits in dysferlinâ€deficient mice. Muscle and Nerve, 2010, 42, 22-29.	2.2	26
40	Restoration of Î³-Sarcoglycan Localization and Mechanical Signal Transduction Are Independent in Murine Skeletal Muscle. Journal of Biological Chemistry, 2010, 285, 17263-17270.	3.4	14
41	The insulin-like growth factor (IGF)-I E-peptides are required for isoform-specific gene expression and muscle hypertrophy after local IGF-I production. Journal of Applied Physiology, 2010, 108, 1069-1076.	2.5	72
42	Resveratrol feeding may be therapeutic for dystrophic skeletal muscle. FASEB Journal, 2009, 23, 600.2.	0.5	0
43	Postnatal PGCâ€1Î± overâ€expression improves muscle function in a mouse model of Duchenne muscular dystrophy. FASEB Journal, 2009, 23, 600.3.	0.5	0
44	Genetic and pharmacologic inhibition of mitochondrial-dependent necrosis attenuates muscular dystrophy. Nature Medicine, 2008, 14, 442-447.	30.7	324
45	Catalase overâ€expression protects dystrophic skeletal muscle. FASEB Journal, 2008, 22, 754.6.	0.5	0
46	A calpain inhibitor fails to rescue dystrophic skeletal muscle. FASEB Journal, 2007, 21, A940.	0.5	0
47	Viral expression of insulin-like growth factor-I isoforms promotes different responses in skeletal muscle. Journal of Applied Physiology, 2006, 100, 1778-1784.	2.5	108
48	The ABCs of IGF-I isoforms: impact on muscle hypertrophy and implications for repair. Applied Physiology, Nutrition and Metabolism, 2006, 31, 791-797.	1.9	108
49	Impact of sarcoglycan complex on mechanical signal transduction in murine skeletal muscle. American Journal of Physiology - Cell Physiology, 2006, 290, C411-C419.	4.6	72
50	Rat supraspinatus muscle atrophy after tendon detachment. Journal of Orthopaedic Research, 2005, 23, 259-265.	2.3	93
51	Systemic administration ofL-arginine benefitsmdx skeletal muscle function. Muscle and Nerve, 2005, 32, 751-760.	2.2	98
52	Viral expression of insulin-like growth factor-I enhances muscle hypertrophy in resistance-trained rats. Journal of Applied Physiology, 2004, 96, 1097-1104.	2.5	170
53	Review Article: Mechanisms and Strategies to Counter Muscle Atrophy. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2003, 58, M923-M926.	3.6	16