Lynn Arthur Megeney

List of Publications by Citations

61	4,452	32	63
papers	citations	h-index	g-index
63	5,395	7.5	5.17
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
61	MyoD is required for myogenic stem cell function in adult skeletal muscle. *Genes and Development*, **1996**, 10, 1173-83	12.6	519
60	Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). *Autophagy*, **2021**, 17, 1-382	10.2	440
59	Caspase 3 activity is required for skeletal muscle differentiation. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 11025-30	11.5	426
58	The post-natal heart contains a myocardial stem cell population. *FEBS Letters*, **2002**, 530, 239-43	3.8	343
57	Determination versus differentiation and the MyoD family of transcription factors. *Biochemistry and Cell Biology*, **1995**, 73, 723-32	3.6	191
56	Caspase 3/caspase-activated DNase promote cell differentiation by inducing DNA strand breaks. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 4230-5	11.5	167
55	Neural stem cell differentiation is dependent upon endogenous caspase 3 activity. *FASEB Journal*, **2005**, 19, 1671-3	0.9	166
54	Strain-dependent myeloid hyperplasia, growth deficiency, and accelerated cell cycle in mice lacking the Rb-related p107 gene. *Molecular and Cellular Biology*, **1998**, 18, 7455-65	4.8	131
53	MEF2 is upregulated during cardiac hypertrophy and is required for normal post-natal growth of the myocardium. *Current Biology*, **1999**, 9, 1203-6	6.3	129
52	Metacaspase Yca1 is required for clearance of insoluble protein aggregates. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 13348-53	11.5	111
51	Expression of utrophin A mRNA correlates with the oxidative capacity of skeletal muscle fiber types and is regulated by calcineurin/NFAT signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 7791-6	11.5	109
50	Severe cardiomyopathy in mice lacking dystrophin and MyoD. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 220-5	11.5	109
49	Guidelines and recommendations on yeast cell death nomenclature. *Microbial Cell*, **2018**, 5, 4-31	3.9	96
48	Parole terms for a killer: directing caspase3/CAD induced DNA strand breaks to coordinate changes in gene expression. *Cell Cycle*, **2010**, 9, 2940-5	4.7	94
47	bFGF and LIF signaling activates STAT3 in proliferating myoblasts. *Genesis*, **1996**, 19, 139-45		81
46	Is caspase-dependent apoptosis only cell differentiation taken to the extreme?. *FASEB Journal*, **2007**, 21, 8-17	0.9	80
45	Evolution of caspase-mediated cell death and differentiation: twins separated at birth. *Cell Death and Differentiation*, **2017**, 24, 1359-1368	12.7	75

44	Glucocorticoid treatment alleviates dystrophic myofiber pathology by activation of the calcineurin/NF-AT pathway. *FASEB Journal*, **2004**, 18, 1937-9	0.9	68
43	Activation of JNK1 contributes to dystrophic muscle pathogenesis. *Current Biology*, **2001**, 11, 1278-82	6.3	68
42	A non-death role of the yeast metacaspase: Yca1p alters cell cycle dynamics. *PLoS ONE*, **2008**, 3, e2956	3.7	68
41	Calcineurin-NFAT signaling, together with GABP and peroxisome PGC-1{alpha}, drives utrophin gene expression at the neuromuscular junction. *American Journal of Physiology - Cell Physiology*, **2005**, 289, C908-17	5.4	65
40	The beneficial role of proteolysis in skeletal muscle growth and stress adaptation. *Skeletal Muscle*, **2016**, 6, 16	5.1	65
39	Wnt11 promotes cardiomyocyte development by caspase-mediated suppression of canonical Wnt signals. *Molecular and Cellular Biology*, **2011**, 31, 163-78	4.8	61
38	Quantitative proteomic analysis of dystrophic dog muscle. *Journal of Proteome Research*, **2011**, 10, 2465-78	5.8	57
37	CD34 promotes satellite cell motility and entry into proliferation to facilitate efficient skeletal muscle regeneration. *Stem Cells*, **2011**, 29, 2030-41	5.8	54
36	Wnt/Ecatenin controls follistatin signalling to regulate satellite cell myogenic potential. *Skeletal Muscle*, **2015**, 5, 14	5.1	51
35	Caspase 3 cleavage of Pax7 inhibits self-renewal of satellite cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E5246-52	11.5	50
34	Regeneration and myogenic cell proliferation correlate with taurine levels in dystrophin- and MyoD-deficient muscles. *The Anatomical Record*, **1998**, 252, 311-24		46
33	Epinephrine administration stimulates GLUT4 translocation but reduces glucose transport in muscle. *Biochemical and Biophysical Research Communications*, **1992**, 187, 685-91	3.4	45
32	Intrinsic-mediated caspase activation is essential for cardiomyocyte hypertrophy. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, E4079-87	11.5	41
31	Classification and Nomenclature of Metacaspases and Paracaspases: No More Confusion with Caspases. *Molecular Cell*, **2020**, 77, 927-929	17.6	35
30	Rehabilitation of a contract killer: caspase-3 directs stem cell differentiation. *Cell Stem Cell*, **2008**, 2, 515-18	18	35
29	A novel whole-cell lysate kinase assay identifies substrates of the p38 MAPK in differentiating myoblasts. *Skeletal Muscle*, **2012**, 2, 5	5.1	30
28	PTEN contributes to profound PI3K/Akt signaling pathway deregulation in dystrophin-deficient dog muscle. *American Journal of Pathology*, **2009**, 174, 1459-70	5.8	30
27	Phosphorylation-dependent structural alterations in the small hsp30 chaperone are associated with cellular recovery. *Experimental Cell Research*, **2003**, 286, 175-85	4.2	26

26	Cardiotrophin 1 stimulates beneficial myogenic and vascular remodeling of the heart. *Cell Research*, **2017**, 27, 1195-1215	24.7	25
25	Identification of candidate regulators of embryonic stem cell differentiation by comparative phosphoprotein affinity profiling. *Molecular and Cellular Proteomics*, **2006**, 5, 57-67	7.6	25
24	Cardiotrophin-1 maintains the undifferentiated state in skeletal myoblasts. *Journal of Biological Chemistry*, **2009**, 284, 19679-93	5.4	24
23	Bin1 SRC homology 3 domain acts as a scaffold for myofiber sarcomere assembly. *Journal of Biological Chemistry*, **2009**, 284, 27674-86	5.4	24
22	Temporal activation of XRCC1-mediated DNA repair is essential for muscle differentiation. *Cell Discovery*, **2016**, 2, 15041	22.3	22
21	The non-death role of metacaspase proteases. *Frontiers in Oncology*, **2012**, 2, 78	5.3	19
20	Reconstructing the regulatory kinase pathways of myogenesis from phosphopeptide data. *Molecular and Cellular Proteomics*, **2006**, 5, 2244-51	7.6	19
19	The role of Yca1 in proteostasis. Yca1 regulates the composition of the insoluble proteome. *Journal of Proteomics*, **2013**, 81, 24-30	3.9	18
18	Cell death proteins: an evolutionary role in cellular adaptation before the advent of apoptosis. *BioEssays*, **2013**, 35, 974-83	4.1	18
17	Comparative analysis of phosphoprotein-enriched myocyte proteomes reveals widespread alterations during differentiation. *FEBS Letters*, **2004**, 574, 138-44	3.8	17
16	Yeast proteinopathy models: a robust tool for deciphering the basis of neurodegeneration. *Microbial Cell*, **2015**, 2, 458-465	3.9	14
15	Caspase signaling, a conserved inductive cue for metazoan cell differentiation. *Seminars in Cell and Developmental Biology*, **2018**, 82, 96-104	7.5	11
14	The yeast kinome displays scale free topology with functional hub clusters. *BMC Bioinformatics*, **2005**, 6, 271	3.6	9
13	The metacaspase Yca1 maintains proteostasis through multiple interactions with the ubiquitin system. *Cell Discovery*, **2019**, 5, 6	22.3	8
12	Active kinase proteome screening reveals novel signal complexity in cardiomyopathy. *Molecular and Cellular Proteomics*, **2005**, 4, 673-82	7.6	8
11	A rapid and efficient method for the isolation of postnatal murine cardiac myocyte and fibroblast cells. *Canadian Journal of Physiology and Pharmacology*, **2018**, 96, 535-539	2.4	6
10	Expression of murine muscle-enriched A-type lamin-interacting protein (MLIP) is regulated by tissue-specific alternative transcription start sites. *Journal of Biological Chemistry*, **2018**, 293, 19761-19770	5.4	6
9	MLIP causes recessive myopathy with rhabdomyolysis, myalgia and baseline elevated serum creatine kinase. *Brain*, **2021**, 144, 2722-2731	11.2	5

List of Publications

8	Isolation of phosphoproteins. *Methods in Molecular Biology*, **2008**, 424, 365-72	1.4	4
7	Reconstructing regulatory kinase pathways from phosphopeptide data: a bioinformatics approach. *Methods in Molecular Biology*, **2009**, 527, 311-9, x	1.4	2
6	Chromatin reorganization during myoblast differentiation involves the caspase-dependent removal of SATB2		2
5	Caspase Cleavage of Gelsolin Is an Inductive Cue for Pathologic Cardiac Hypertrophy. *Journal of the American Heart Association*, **2018**, 7, e010404	6	2
4	Cancer cells use self-inflicted DNA breaks to evade growth limits imposed by genotoxic stress.. *Science*, **2022**, 376, 476-483	33.3	0
3	Caspase Signaling Pathways as Convenors of Stress Adaptation **2022**, 87-102		
2	Getting to the heart of the matter: exploring opportunities for gene therapy treatment of dystrophic cardiomyopathy. *Current Gene Therapy*, **2004**, 4, 195-8	4.3	
1	Monitoring the proteostasis function of the Saccharomyces cerevisiae metacaspase Yca1. *Methods in Molecular Biology*, **2014**, 1133, 223-35	1.4	