Maria Antonietta Pellegrino

List of Publications by Citations

55 papers	5,032 citations	37 h-index	59 g-index
59 ext. papers	5,525 ext. citations	5.7 avg, IF	4.84 L-index

#	Paper	IF	Citations
55	Cell therapy of alpha-sarcoglycan null dystrophic mice through intra-arterial delivery of mesoangioblasts. *Science*, **2003**, 301, 487-92	33.3	542
54	Force-velocity properties of human skeletal muscle fibres: myosin heavy chain isoform and temperature dependence. *Journal of Physiology*, **1996**, 495 (Pt 2), 573-86	3.9	370
53	The effect of ageing and immobilization on structure and function of human skeletal muscle fibres. *Journal of Physiology*, **2003**, 552, 499-511	3.9	339
52	Human circulating AC133(+) stem cells restore dystrophin expression and ameliorate function in dystrophic skeletal muscle. *Journal of Clinical Investigation*, **2004**, 114, 182-95	15.9	271
51	ATP consumption and efficiency of human single muscle fibers with different myosin isoform composition. *Biophysical Journal*, **2000**, 79, 945-61	2.9	256
50	Whole-muscle and single-fibre contractile properties and myosin heavy chain isoforms in humans. *Pflugers Archiv European Journal of Physiology*, **1996**, 432, 913-20	4.6	248
49	Facioscapulohumeral muscular dystrophy in mice overexpressing FRG1. *Nature*, **2006**, 439, 973-7	50.4	185
48	Orthologous myosin isoforms and scaling of shortening velocity with body size in mouse, rat, rabbit and human muscles. *Journal of Physiology*, **2003**, 546, 677-89	3.9	157
47	PGC1- over-expression prevents metabolic alterations and soleus muscle atrophy in hindlimb unloaded mice. *Journal of Physiology*, **2014**, 592, 4575-89	3.9	136
46	A mutant tropomyosin that causes hypertrophic cardiomyopathy is expressed in vivo and associated with an increased calcium sensitivity. *Circulation Research*, **1998**, 82, 106-15	15.7	135
45	Specific contributions of various muscle fibre types to human muscle performance: an in vitro study. *Journal of Electromyography and Kinesiology*, **1999**, 9, 87-95	2.5	129
44	The human muscle proteome in aging. *Journal of Proteome Research*, **2006**, 5, 1344-53	5.6	126
43	The time course of the adaptations of human muscle proteome to bed rest and the underlying mechanisms. *Journal of Physiology*, **2012**, 590, 5211-30	3.9	115
42	Skeletal muscle hypertrophy and structure and function of skeletal muscle fibres in male body builders. *Journal of Physiology*, **2006**, 570, 611-27	3.9	115
41	The role of alterations in mitochondrial dynamics and PGC-1 over-expression in fast muscle atrophy following hindlimb unloading. *Journal of Physiology*, **2015**, 593, 1981-95	3.9	108
40	Neuromuscular electrical stimulation training induces atypical adaptations of the human skeletal muscle phenotype: a functional and proteomic analysis. *Journal of Applied Physiology*, **2011**, 110, 433-50	3.7	99
39	Fibre types in skeletal muscles of chronic obstructive pulmonary disease patients related to respiratory function and exercise tolerance. *European Respiratory Journal*, **1997**, 10, 2853-60	13.6	96

38	Redox homeostasis, oxidative stress and disuse muscle atrophy. *Journal of Physiology*, **2011**, 589, 2147-60	3.9	91
37	What limits the velocity of fast-skeletal muscle contraction in mammals?. *Journal of Molecular Biology*, **2006**, 355, 432-42	6.5	91
36	Chemo-mechanical energy transduction in relation to myosin isoform composition in skeletal muscle fibres of the rat. *Journal of Physiology*, **1997**, 502 (Pt 2), 449-60	3.9	88
35	Deterioration of contractile properties of muscle fibres in elderly subjects is modulated by the level of physical activity. *European Journal of Applied Physiology*, **2007**, 100, 603-11	3.4	76
34	Differing ADP release rates from myosin heavy chain isoforms define the shortening velocity of skeletal muscle fibers. *Journal of Biological Chemistry*, **2001**, 276, 45902-8	5.4	75
33	Fast fibres in a large animal: fibre types, contractile properties and myosin expression in pig skeletal muscles. *Journal of Experimental Biology*, **2004**, 207, 1875-86	3	72
32	Sprint training, in vitro and in vivo muscle function, and myosin heavy chain expression. *Journal of Applied Physiology*, **1998**, 84, 442-9	3.7	71
31	Is oxidative stress a cause or consequence of disuse muscle atrophy in mice? A proteomic approach in hindlimb-unloaded mice. *Experimental Physiology*, **2010**, 95, 331-50	2.4	64
30	Neuromuscular adaptations to electrostimulation resistance training. *American Journal of Physical Medicine and Rehabilitation*, **2006**, 85, 167-75	2.6	60
29	The mechanism of the force response to stretch in human skinned muscle fibres with different myosin isoforms. *Journal of Physiology*, **2004**, 554, 335-52	3.9	60
28	Antioxidant treatment of hindlimb-unloaded mouse counteracts fiber type transition but not atrophy of disused muscles. *Pharmacological Research*, **2010**, 61, 553-63	10.2	58
27	Myosin and actin content of human skeletal muscle fibers following 35 days bed rest. *Scandinavian Journal of Medicine and Science in Sports*, **2010**, 20, 65-73	4.6	54
26	Skeletal muscle fibre diversity and the underlying mechanisms. *Acta Physiologica*, **2010**, 199, 465-76	5.6	49
25	Effects of resistance training on myosin function studied by the in vitro motility assay in young and older men. *Journal of Applied Physiology*, **2005**, 98, 2390-5	3.7	45
24	Single muscle fiber properties in aging and disuse. *Scandinavian Journal of Medicine and Science in Sports*, **2010**, 20, 10-9	4.6	44
23	Effects of voluntary wheel running and amino acid supplementation on skeletal muscle of mice. *European Journal of Applied Physiology*, **2005**, 93, 655-64	3.4	42
22	FoxO-dependent atrogenes vary among catabolic conditions and play a key role in muscle atrophy induced by hindlimb suspension. *Journal of Physiology*, **2017**, 595, 1143-1158	3.9	41
21	Structure and function of human muscle fibres and muscle proteome in physically active older men. *Journal of Physiology*, **2017**, 595, 4823-4844	3.9	38

20	Contractile properties and fiber type distribution of quadriceps muscles in adults with childhood-onset growth hormone deficiency. *Journal of Clinical Endocrinology and Metabolism*, **1997**, 82, 4133-8	5.6	38
19	Clenbuterol antagonizes glucocorticoid-induced atrophy and fibre type transformation in mice. *Experimental Physiology*, **2004**, 89, 89-100	2.4	38
18	Contractile effects of the exchange of cardiac troponin for fast skeletal troponin in rabbit psoas single myofibrils. *Journal of Physiology*, **2003**, 552, 917-31	3.9	37
17	Diaphragm Atrophy and Weakness in the Absence of Mitochondrial Dysfunction in the Critically Ill. *American Journal of Respiratory and Critical Care Medicine*, **2017**, 196, 1544-1558	10.2	36
16	"Oxidative stress": effects of mild endurance training and testosterone treatment on rat gastrocnemius muscle. *European Journal of Applied Physiology*, **2002**, 87, 550-5	3.4	35
15	Contractile properties and myosin heavy chain isoform composition in single fibre of human laryngeal muscles. *Journal of Muscle Research and Cell Motility*, **2002**, 23, 187-95	3.5	35
14	Functional diversity between orthologous myosins with minimal sequence diversity. *Journal of Muscle Research and Cell Motility*, **2000**, 21, 375-82	3.5	33
13	Adaptations of masticatory muscles to a hyperpropulsive appliance in the rat. *American Journal of Orthodontics and Dentofacial Orthopedics*, **1996**, 110, 612-7	2.1	32
12	Profound misregulation of muscle-specific gene expression in facioscapulohumeral muscular dystrophy. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 12650-4	11.5	29
11	Statin or fibrate chronic treatment modifies the proteomic profile of rat skeletal muscle. *Biochemical Pharmacology*, **2011**, 81, 1054-64	6	27
10	Human skeletal muscle fibre contractile properties and proteomic profile: adaptations to 3 weeks of unilateral lower limb suspension and active recovery. *Journal of Physiology*, **2015**, 593, 5361-85	3.9	23
9	Thyroid hormone regulation of MHC isoform composition and myofibrillar ATPase activity in rat skeletal muscles. *Archives of Physiology and Biochemistry*, **1998**, 106, 308-15	2.2	21
8	Effects of the beta(2)-agonist clenbuterol on respiratory and limb muscles of weaning rats. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2001**, 280, R862-9	3.2	21
7	Quantitative and qualitative adaptations of muscle fibers to glucocorticoids. *Muscle and Nerve*, **2015**, 52, 631-9	3.4	19
6	Amino acid supplementation counteracts metabolic and functional damage in the diabetic rat heart. *American Journal of Cardiology*, **2008**, 101, 49E-56E	3	18
5	Myosin content of single muscle fibers following short-term disuse and active recovery in young and old healthy men. *Experimental Gerontology*, **2017**, 87, 100-107	4.5	13
4	Amino acid supplements improve native antioxidant enzyme expression in the skeletal muscle of diabetic mice. *American Journal of Cardiology*, **2008**, 101, 57E-62E	3	10
3	Exercise training in Tg44 mice during the progression of chronic heart failure: cardiac vs. peripheral (soleus muscle) impairments to oxidative metabolism. *Journal of Applied Physiology*, **2017**, 123, 326-336	3.7	9

2	Voluntary physical activity counteracts Chronic Heart Failure progression affecting both cardiac function and skeletal muscle in the transgenic Tg□*44 mouse model. *Physiological Reports*, **2019**, 7, e14161	2.6	5
1	Acute and chronic tirasemtiv treatment improves in vivo and in vitro muscle performance in actin-based nemaline myopathy mice. *Human Molecular Genetics*, **2021**, 30, 1305-1320	5.6	4