

# Marco Brotto

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96  
papers

1,809  
citations

23  
h-index

41  
g-index

115  
ext. papers

2,229  
ext. citations

3.6  
avg, IF

5  
L-index

#	Paper	IF	Citations
96	Bone and muscle: Interactions beyond mechanical. <i>Bone</i> , <b>2015</b> , 80, 109-114	4.7	156
95	Uncontrolled calcium sparks act as a dystrophic signal for mammalian skeletal muscle. <i>Nature Cell Biology</i> , <b>2005</b> , 7, 525-30	23.4	138
94	Muscle aging is associated with compromised Ca <sup>2+</sup> spark signaling and segregated intracellular Ca <sup>2+</sup> release. <i>Journal of Cell Biology</i> , <b>2006</b> , 174, 639-45	7.3	105
93	Prostaglandin E2: from clinical applications to its potential role in bone- muscle crosstalk and myogenic differentiation. <i>Recent Patents on Biotechnology</i> , <b>2012</b> , 6, 223-9	2.2	92
92	β-Aminoisobutyric Acid, l-BAIBA, Is a Muscle-Derived Osteocyte Survival Factor. <i>Cell Reports</i> , <b>2018</b> , 22, 1531-1544	10.6	84
91	Deficiency of MIP/MTMR14 phosphatase induces a muscle disorder by disrupting Ca(2+) homeostasis. <i>Nature Cell Biology</i> , <b>2009</b> , 11, 769-76	23.4	79
90	Visual gene-network analysis reveals the cancer gene co-expression in human endometrial cancer. <i>BMC Genomics</i> , <b>2014</b> , 15, 300	4.5	72
89	Endocrine crosstalk between muscle and bone. <i>Current Osteoporosis Reports</i> , <b>2014</b> , 12, 135-41	5.4	64
88	METTL21C is a potential pleiotropic gene for osteoporosis and sarcopenia acting through the modulation of the NF-κB signaling pathway. <i>Journal of Bone and Mineral Research</i> , <b>2014</b> , 29, 1531-1540	6.3	63
87	Compromised store-operated Ca <sup>2+</sup> entry in aged skeletal muscle. <i>Aging Cell</i> , <b>2008</b> , 7, 561-8	9.9	61
86	Prostaglandin E2 promotes proliferation of skeletal muscle myoblasts via EP4 receptor activation. <i>Cell Cycle</i> , <b>2015</b> , 14, 1507-16	4.7	57
85	Store-operated Ca <sup>2+</sup> entry in muscle physiology and diseases. <i>BMB Reports</i> , <b>2014</b> , 47, 69-79	5.5	52
84	Sarcopenia: pharmacology of today and tomorrow. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2012</b> , 343, 540-6	4.7	52
83	Crosstalk between MLO-Y4 osteocytes and C2C12 muscle cells is mediated by the Wnt/β-catenin pathway. <i>JBMR Plus</i> , <b>2017</b> , 1, 86-100	3.9	51
82	Physiology of Mechanotransduction: How Do Muscle and Bone "Talk" to One Another?. <i>Clinical Reviews in Bone and Mineral Metabolism</i> , <b>2014</b> , 12, 77-85	2.5	50
81	Muscle-specific inositide phosphatase (MIP/MTMR14) is reduced with age and its loss accelerates skeletal muscle aging process by altering calcium homeostasis. <i>Aging</i> , <b>2010</b> , 2, 504-13	5.6	47
80	SH3BP2 cherubism mutation potentiates TNF-α-induced osteoclastogenesis via NFATc1 and TNF-α-mediated inflammatory bone loss. <i>Journal of Bone and Mineral Research</i> , <b>2014</b> , 29, 2618-35	6.3	45

79	Extracellular Membrane Vesicles Derived from 143B Osteosarcoma Cells Contain Pro-Osteoclastogenic Cargo: A Novel Communication Mechanism in Osteosarcoma Bone Microenvironment. <i>Translational Oncology</i> , <b>2014</b> , 7, 331-40	4.9	35
78	Store-operated Ca(2+) entry (SOCE) contributes to normal skeletal muscle contractility in young but not in aged skeletal muscle. <i>Aging</i> , <b>2011</b> , 3, 621-34	5.6	34
77	Deletion of Mbtps1 (Pcsk8, S1p, Ski-1) Gene in Osteocytes Stimulates Soleus Muscle Regeneration and Increased Size and Contractile Force with Age. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 4308-22	5.4	31
76	Novel excitation-contraction coupling related genes reveal aspects of muscle weakness beyond atrophy-new hopes for treatment of musculoskeletal diseases. <i>Frontiers in Physiology</i> , <b>2014</b> , 5, 37	4.6	29
75	Novel 3D-printed methacrylated chitosan-laponite nanosilicate composite scaffolds enhance cell growth and biomineral formation in MC3T3 pre-osteoblasts. <i>Journal of Materials Research</i> , <b>2020</b> , 35, 58-75	2.5	26
74	Ex vivo assessment of contractility, fatigability and alternans in isolated skeletal muscles. <i>Journal of Visualized Experiments</i> , <b>2012</b> , e4198	1.6	24
73	Histone methylase MLL1 coordinates with HIF and regulate lncRNA HOTAIR expression under hypoxia. <i>Gene</i> , <b>2017</b> , 629, 16-28	3.8	23
72	Targeted quantification of lipid mediators in skeletal muscles using restricted access media-based trap-and-elute liquid chromatography-mass spectrometry. <i>Analytica Chimica Acta</i> , <b>2017</b> , 984, 151-161	6.6	22
71	Skeletal muscle troponin as a novel biomarker to enhance assessment of the impact of strength training on fall prevention in the older adults. <i>Nursing Research</i> , <b>2014</b> , 63, 75-82	1.9	21
70	Skeletal Muscle, but not Cardiovascular Function, Is Altered in a Mouse Model of Autosomal Recessive Hypophosphatemic Rickets. <i>Frontiers in Physiology</i> , <b>2016</b> , 7, 173	4.6	21
69	Fibroblast growth factor 23 does not directly influence skeletal muscle cell proliferation and differentiation or ex vivo muscle contractility. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2018</b> , 315, E594-E604	6	20
68	Cellular and Physiological Effects of Dietary Supplementation with β-Hydroxy-β-Methylbutyrate (HMB) and Alanine in Late Middle-Aged Mice. <i>PLoS ONE</i> , <b>2016</b> , 11, e0150066	3.7	19
67	Quantification of aminobutyric acids and their clinical applications as biomarkers for osteoporosis. <i>Communications Biology</i> , <b>2020</b> , 3, 39	6.7	17
66	The effect of malaria and anti-malarial drugs on skeletal and cardiac muscles. <i>Malaria Journal</i> , <b>2016</b> , 15, 524	3.6	17
65	Outcomes of Stay Strong, Stay Healthy in community settings. <i>Journal of Aging and Health</i> , <b>2013</b> , 25, 1388-97	2.6	14
64	Transitioning from Acute to Chronic Pain: An Examination of Different Trajectories of Low-Back Pain. <i>Healthcare (Switzerland)</i> , <b>2018</b> , 6,	3.4	13
63	A randomized-controlled trial pilot study examining the neurodevelopmental effects of a 5-week M Technique intervention on very preterm infants. <i>Advances in Neonatal Care</i> , <b>2014</b> , 14, 187-200	2	13
62	A multimodal assessment of balance in elderly and young adults. <i>Oncotarget</i> , <b>2016</b> , 7, 13297-306	3.3	12

61	Fibroblast growth factor 9 (FGF9) inhibits myogenic differentiation of C2C12 and human muscle cells. <i>Cell Cycle</i> , <b>2019</b> , 18, 3562-3580	4.7	12
60	Lessons from the FNIH-NIA-FDA sarcopenia consensus summit. <i>IBMS BoneKEy</i> , <b>2012</b> , 9,		9
59	Characterization of a novel murine Sost ER Cre model targeting osteocytes. <i>Bone Research</i> , <b>2019</b> , 7, 6	13.3	9
58	Silicon nitride enhances osteoprogenitor cell growth and differentiation via increased surface energy and formation of amide and nanocrystalline HA for craniofacial reconstruction. <i>Medical Devices &amp; Sensors</i> , <b>2019</b> , 2, e10032	1.6	8
57	Temporal adaptive changes in contractility and fatigability of diaphragm muscles from streptozotocin-diabetic rats. <i>Journal of Biomedicine and Biotechnology</i> , <b>2010</b> , 2010, 931903		8
56	Amorphous Silicon Oxynitrophosphide-Coated Implants Boost Angiogenic Activity of Endothelial Cells. <i>Tissue Engineering - Part A</i> , <b>2020</b> , 26, 15-27	3.9	8
55	Multi-Staged Regulation of Lipid Signaling Mediators during Myogenesis by COX-1/2 Pathways. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	6
54	Bone-muscle interactions: ASBMR Topical Meeting, July 2012. <i>IBMS BoneKEy</i> , <b>2012</b> , 9,		6
53	A dual mode pulsed electro-magnetic cell stimulator produces acceleration of myogenic differentiation. <i>Recent Patents on Biotechnology</i> , <b>2013</b> , 7, 71-81	2.2	5
52	Neural control of postural sway: Relationship to strength measures in young and elderly adults. <i>Experimental Gerontology</i> , <b>2019</b> , 118, 39-44	4.5	5
51	Nampt activator P7C3 ameliorates diabetes and improves skeletal muscle function modulating cell metabolism and lipid mediators.. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , <b>2022</b> ,	10.3	4
50	Primum non nocere - Are chloroquine and hydroxychloroquine safe prophylactic/treatment options for SARS-CoV-2 (covid-19)?. <i>Revista De Saude Publica</i> , <b>2020</b> , 54, 68	2.4	4
49	Preliminary study of in-situ 3D bioprinted nano-silicate biopolymer scaffolds for muscle repair in VML defects. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	4
48	The skeletal muscles of mice infected with Plasmodium berghei and Plasmodium chabaudi reveal a crosstalk between lipid mediators and gene expression. <i>Malaria Journal</i> , <b>2020</b> , 19, 254	3.6	4
47	Ionic Silicon Protects Oxidative Damage and Promotes Skeletal Muscle Cell Regeneration. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	4
46	Micro-patterned Bioactive Amorphous Silicon Oxynitride Enhances Adhesion, Growth, and Myotubes and Axon Alignment in Muscle and Nerve Cells. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	3
45	Identification and Functional Characterization of Metabolites for Bone Mass in Peri- and Postmenopausal Chinese Women. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2021</b> , 106, e3159-e3177	5.6	3
44	Silicon Oxynitrophosphide Nanoscale Coating Enhances Antioxidant Marker-Induced Angiogenesis During in vivo Cranial Bone-Defect Healing. <i>JBMR Plus</i> , <b>2021</b> , 5, e10425	3.9	3

43	Deletion of SREBF1, a Functional Bone-Muscle Pleiotropic Gene, Alters Bone Density and Lipid Signaling in Zebrafish. <i>Endocrinology</i> , <b>2021</b> , 162,	4.8	3
42	Nanodrug delivery platform for glucocorticoid use in skeletal muscle injury. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>2018</b> , 96, 681-689	2.4	3
41	Numb is required for optimal contraction of skeletal muscle.. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , <b>2022</b> ,	10.3	2
40	New Surgical Model for Bone-Muscle Injury Reveals Age and Gender-Related Healing Patterns in the 5 Lipoxigenase (5LO) Knockout Mouse. <i>Frontiers in Endocrinology</i> , <b>2020</b> , 11, 484	5.7	2
39	NAD centric mechanisms and molecular determinants of skeletal muscle disease and aging.. <i>Molecular and Cellular Biochemistry</i> , <b>2022</b> , 1	4.2	2
38	Bone and Muscle. <i>Molecular and Integrative Toxicology</i> , <b>2017</b> , 281-316	0.5	1
37	The Muscle-Bone Connection <b>2016</b> , 59-92		1
36	Cross-Talk Between Muscle and Bone <b>2019</b> , 73-97		1
35	Patterned Silicon Oxynitride (SiONx) Scaffolds Enhance Alignment and Myogenic Differentiation of C2C12 Muscle Cells. <i>FASEB Journal</i> , <b>2019</b> , 33, 539.5	0.9	1
34	Evidence for pathophysiological crosstalk between bones, cardiac, skeletal and smooth muscles. <i>FASEB Journal</i> , <b>2010</b> , 24, 1046.8	0.9	1
33	Wnt3a a potent modulator of myogenic differentiation and muscle cell function. <i>FASEB Journal</i> , <b>2012</b> , 26, 1143.2	0.9	1
32	The toxic effects of chloroquine and hydroxychloroquine on skeletal muscle: a systematic review and meta-analysis. <i>Scientific Reports</i> , <b>2021</b> , 11, 6589	4.9	1
31	A simple model of immune and muscle cell crosstalk during muscle regeneration. <i>Mathematical Biosciences</i> , <b>2021</b> , 333, 108543	3.9	1
30	The relative efficacy of two exercise methods for older adults with chronic low back pain: A preliminary randomized control study. <i>Journal of Applied Biobehavioral Research</i> , <b>2019</b> , 24, e12132	1.7	1
29	A comparative study on silicon nitride, titanium and polyether ether ketone on mouse pre-osteoblast cells. <i>Medical Devices &amp; Sensors</i> , <b>2021</b> , 4, e10139	1.6	1
28	Interactions Between Muscle and Bone <b>2018</b> , 1055-1062		1
27	Old and new biomarkers for volumetric muscle loss. <i>Current Opinion in Pharmacology</i> , <b>2021</b> , 59, 61-69	5.1	1
26	Fibroblast Growth Factor 9 (FGF9) is Expressed in An Osteocyte-like Mini-bone Cell Line and Inhibits C2C12 Myogenesis via Overexpression of Myostatin. <i>FASEB Journal</i> , <b>2018</b> , 32, 1b491	0.9	0

25	Mini review: Biomaterials in repair and regeneration of nerve in a volumetric muscle loss. <i>Neuroscience Letters</i> , <b>2021</b> , 762, 136145	3.3	0
24	Transitioning from acute to chronic pain: a simulation study of trajectories of low back pain. <i>Journal of Translational Medicine</i> , <b>2019</b> , 17, 306	8.5	
23	Paracrine Modulation of Mechanotransduction <b>2020</b> , 374-391		
22	Genetic Profiling of Malaria and Lipid Mediator Quantification of Mouse Striated Muscles Infected with Malaria Parasites. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
21	Higher Susceptibility to Skeletal Muscle TA (Tibialis Anterior) Injury with Increased Inflammation in Aged Mice.. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
20	Acute Knockdown of MG29 Alters Skeletal Muscle Cells Differentiation and Leads to Cellular Atrophy. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
19	Kv $\beta$ subunit interacts with NEDD4 leading to decreased mouse skeletal muscle size.. <i>FASEB Journal</i> , <b>2018</b> , 32, 768.3	0.9	
18	In vitro testing of fluticasone drug delivery system for inflammatory injury and repair. <i>FASEB Journal</i> , <b>2019</b> , 33, 868.16	0.9	
17	Lipidomic analysis of lipid mediators derived from cyclooxygenase-1 and -2 pathways reveals their new implications in skeletal muscle. <i>FASEB Journal</i> , <b>2019</b> , 33, 539.7	0.9	
16	Dysfunctional calcium homeostasis in aged mice primary tenocytes is a potential functional link to tendon disorders (863.10). <i>FASEB Journal</i> , <b>2014</b> , 28, 863.10	0.9	
15	Wnt3a potentiates myogenesis in C2C12 myoblasts through the modulation of intracellular calcium and activation of the $\beta$ -catenin signaling pathway (1102.23). <i>FASEB Journal</i> , <b>2014</b> , 28, 1102.23	0.9	
14	Bone-muscle crosstalk: more than mechanical (704.3). <i>FASEB Journal</i> , <b>2014</b> , 28, 704.3	0.9	
13	Pinh $\beta$ -manso ( <i>Jatropha curcas</i> ) demonstrates potent antibacterial properties in a rat model of third degree burns (1180.18). <i>FASEB Journal</i> , <b>2014</b> , 28, 1180.18	0.9	
12	Crosstalk between Bone and Muscle: Deletion of <i>Mbtps1</i> in Bone Leads to Age-Dependent Increase in Muscle Size and Contractile Function. <i>FASEB Journal</i> , <b>2015</b> , 29, 495.2	0.9	
11	Cellular and Physiological Implications of Dietary Supplementation with Beta-Hydroxy-Beta-Methylbutyrate and Beta-Alanine in Late Middle-Aged Mice. <i>FASEB Journal</i> , <b>2015</b> , 29, LB693	0.9	
10	Tendon Cells Demonstrate Store-Operated Calcium Entry Capacity and Differences in Calcium Signaling Through Aging. <i>FASEB Journal</i> , <b>2015</b> , 29, 815.7	0.9	
9	Prostaglandin E2 Signaling via EP4 Receptor is Important for Cell Cycle Progression and the Regulation of Reactive Oxygen Species Production in Primary Myoblast. <i>FASEB Journal</i> , <b>2015</b> , 29, 947.16	0.9	
8	Wnt3a and Wnt1 Enhance Myogenesis of C2C12 Myoblasts [Potential Mechanisms of Osteocyte to Muscle Cell Signaling. <i>FASEB Journal</i> , <b>2015</b> , 29, 947.13	0.9	

- 7 Mild Heat Shock Promotes Hypertrophy in Cardiac, Skeletal and Smooth Muscle Cells. *FASEB Journal*, **2010**, 24, 1047.3 0.9
- 6 Skeletal Muscles Maintain Osteocyte Viability. *FASEB Journal*, **2011**, 25, 1059.18 0.9
- 5 Multiple-staged Regulation of Myogenic Differentiation by Prostaglandin E2. *FASEB Journal*, **2012**, 26, 1143.1 0.9
- 4 Cellular mechanisms of tendon-muscle crosstalk. *FASEB Journal*, **2012**, 26, 1143.3 0.9
- 3 Characterization of myogenesis in C2C12 myoblasts using Flow Cytometry. *FASEB Journal*, **2013**, 27, 1152.17 0.9
- 2 METTL21C: From GWAS to in vitro function in skeletal muscle cells. *FASEB Journal*, **2013**, 27, 942.5 0.9
- 1 Prostaglandin E2 signaling plays an important role in the regulation of the cell cycle progression in C2C12 myoblasts. *FASEB Journal*, **2013**, 27, 1152.18 0.9