

Marco Brotto

List of Publications by Year in descending order

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Version: 2024-02-01

109
papers

2,578
citations

218381

26
h-index

214527

47
g-index

115
all docs

115
docs citations

115
times ranked

3345
citing authors

#	ARTICLE	IF	CITATIONS
1	Numb is required for optimal contraction of skeletal muscle. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2022, 13, 454-466.	2.9	9
2	Nampt activator P7C3 ameliorates diabetes and improves skeletal muscle function modulating cell metabolism and lipid mediators. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2022, 13, 1177-1196.	2.9	21
3	Butyrate Ameliorates Mitochondrial Respiratory Capacity of The Motor-Neuron-like Cell Line NSC34-G93A, a Cellular Model for ALS. <i>Biomolecules</i> , 2022, 12, 333.	1.8	9
4	RNA-sequencing Reveals a Gene Expression Signature in Skeletal Muscle of a Mouse Model of Age-associated Postoperative Functional Decline. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2022, 77, 1939-1950.	1.7	2
5	NAD ⁺ centric mechanisms and molecular determinants of skeletal muscle disease and aging. <i>Molecular and Cellular Biochemistry</i> , 2022, 477, 1829-1848.	1.4	12
6	Enhanced Isolation of Single Myofibers in Flexor Digitorum Brevis Dissociation. <i>FASEB Journal</i> , 2022, 36, .	0.2	0
7	Comparative Analysis of Fat Composition in Marrow, Serum, and Muscle from Aging C57BL6 mice. <i>Mechanisms of Ageing and Development</i> , 2022, , 111690.	2.2	1
8	Silicon Oxynitrophosphide <scp>Nanoscale Coating</scp> Enhances Antioxidant Markerâ€œInduced Angiogenesis During in vivo Cranial Boneâ€œDefect Healing. <i>JBMR Plus</i> , 2021, 5, e10425.	1.3	12
9	Deletion of <i>SREBF1,</i> a Functional Bone-Muscle Pleiotropic Gene, Alters Bone Density and Lipid Signaling in Zebrafish. <i>Endocrinology</i> , 2021, 162, .	1.4	13
10	A comparative study on silicon nitride, titanium and polyether ether ketone on mouse preâ€œosteoblast cells. <i>Medical Devices & Sensors</i> , 2021, 4, e10139.	2.7	3
11	Identification and Functional Characterization of Metabolites for Bone Mass in Peri- and Postmenopausal Chinese Women. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, e3159-e3177.	1.8	14
12	The toxic effects of chloroquine and hydroxychloroquine on skeletal muscle: a systematic review and meta-analysis. <i>Scientific Reports</i> , 2021, 11, 6589.	1.6	8
13	A simple model of immune and muscle cell crosstalk during muscle regeneration. <i>Mathematical Biosciences</i> , 2021, 333, 108543.	0.9	5
14	Potential Roles of Numb in Myogenesis, Mitochondrial Metabolism, and Calcium Signaling. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
15	Potential Roles of Silicon/Silicaâ€œBased Nanoparticles in 3D Printed Hydrogels for Skeletal Muscle Regeneration. <i>FASEB Journal</i> , 2021, 35, .	0.2	1
16	Acute Knockdown of MG29 in Mouse Muscle Cells Reveals Signaling Mechanisms Associated with Polyunsaturated Fatty Acid (PUFA) â€œ Implications for Sarcopenia. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
17	Old and new biomarkers for volumetric muscle loss. <i>Current Opinion in Pharmacology</i> , 2021, 59, 61-69.	1.7	8
18	Mini review: Biomaterials in repair and regeneration of nerve in a volumetric muscle loss. <i>Neuroscience Letters</i> , 2021, 762, 136145.	1.0	3

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19	Ionic Silicon Protects Oxidative Damage and Promotes Skeletal Muscle Cell Regeneration. <i>International Journal of Molecular Sciences</i> , 2021, 22, 497.	1.8	19
20	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> , 2020, 35, 58-75.	1.2	46
21	Amorphous Silicon Oxynitrophosphide-Coated Implants Boost Angiogenic Activity of Endothelial Cells. <i>Tissue Engineering - Part A</i> , 2020, 26, 15-27.	1.6	18
22	The skeletal muscles of mice infected with <i>Plasmodium berghei</i> and <i>Plasmodium chabaudi</i> reveal a crosstalk between lipid mediators and gene expression. <i>Malaria Journal</i> , 2020, 19, 254.	0.8	7
23	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> , 2020, 11, 484.	1.5	10
24	Quantification of aminobutyric acids and their clinical applications as biomarkers for osteoporosis. <i>Communications Biology</i> , 2020, 3, 39.	2.0	39
25	Micro-patterned Bioactive Amorphous Silicon Oxynitride Enhances Adhesion, Growth, and Myotubes and Axon Alignment in Muscle and Nerve Cells. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	4
26	Preliminary study of <i>in-situ</i> 3D bioprinted nano-silicate biopolymer scaffolds for muscle repair in VML defects. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	5
27	Primum non nocere – Are chloroquine and hydroxychloroquine safe prophylactic/treatment options for SARS-CoV-2 (covid-19)?. <i>Revista De Saude Publica</i> , 2020, 54, 68.	0.7	4
28	Detrimental effects of malaria, toxoplasmosis, leishmaniosis and Chagas disease on cardiac and skeletal muscles. <i>Medical Research Archives</i> , 2020, 8, .	0.1	2
29	Paracrine Modulation of Mechanotransduction. , 2020, , 374-391.		0
30	Genetic Profiling of Malaria and Lipid Mediator Quantification of Mouse Striated Muscles Infected with Malaria Parasites. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
31	Higher Susceptibility to Skeletal Muscle TA (Tibialis Anterior) Injury with Increased Inflammation in Aged Mice.. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
32	Acute Knockdown of MG29 Alters Skeletal Muscle Cells Differentiation and Leads to Cellular Atrophy. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
33	Transitioning from acute to chronic pain: a simulation study of trajectories of low back pain. <i>Journal of Translational Medicine</i> , 2019, 17, 306.	1.8	0
34	Multi-Staged Regulation of Lipid Signaling Mediators during Myogenesis by COX-1/2 Pathways. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4326.	1.8	12
35	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 & Sensors</i> , 2019, 2, e10032.	2.7	17
36	Characterization of a novel murine Sost ERT2 Cre model targeting osteocytes. <i>Bone Research</i> , 2019, 7, 6.	5.4	20

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37	Fibroblast growth factor 9 (FGF9) inhibits myogenic differentiation of C2C12 and human muscle cells. <i>Cell Cycle</i> , 2019, 18, 3562-3580.	1.3	24
38	Neural control of postural sway: Relationship to strength measures in young and elderly adults. <i>Experimental Gerontology</i> , 2019, 118, 39-44.	1.2	8
39	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> , 2019, 24, e12132.	2.0	2
40	Cross-Talk Between Muscle and Bone. , 2019, , 73-97.		1
41	Patterned Silicon Oxynitride (SiON x) Scaffolds Enhance Alignment and Myogenic Differentiation of C2C12 Muscle Cells. <i>FASEB Journal</i> , 2019, 33, 539.5.	0.2	1
42	In vitro testing of fluticasone drug delivery system for inflammatory injury and repair. <i>FASEB Journal</i> , 2019, 33, 868.16.	0.2	0
43	Lipidomic analysis of lipid mediators derived from cyclooxygenase-1 and -2 pathways reveals their new implications in skeletal muscle. <i>FASEB Journal</i> , 2019, 33, 539.7.	0.2	0
44	β -aminoisobutyric Acid, I-BAIBA, Is a Muscle-Derived Osteocyte Survival Factor. <i>Cell Reports</i> , 2018, 22, 1531-1544.	2.9	131
45	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> , 2018, 315, E594-E604.	1.8	30
46	Nanodrug delivery platform for glucocorticoid use in skeletal muscle injury. <i>Canadian Journal of Physiology and Pharmacology</i> , 2018, 96, 681-689.	0.7	6
47	Transitioning from Acute to Chronic Pain: An Examination of Different Trajectories of Low-Back Pain. <i>Healthcare (Switzerland)</i> , 2018, 6, 48.	1.0	25
48	Fibroblast Growth Factor 9 (FGF9) is Expressed in An Osteocyte-Like α -C ₂ Mini α Bone α -Cell Line and Inhibits C2C12 Myogenesis via Overexpression of Myostatin. <i>FASEB Journal</i> , 2018, 32, 1b491.	0.2	1
49	Kv β 2 subunit interacts with NEDD4 leading to decreased mouse skeletal muscle size.. <i>FASEB Journal</i> , 2018, 32, 768.3.	0.2	0
50	Bone and Muscle. <i>Molecular and Integrative Toxicology</i> , 2017, , 281-316.	0.5	2
51	Crosstalk Between MLO α 4 Osteocytes and C2C12 Muscle Cells Is Mediated by the Wnt/ β -Catenin Pathway. <i>JBMR Plus</i> , 2017, 1, 86-100.	1.3	83
52	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> , 2017, 984, 151-161.	2.6	28
53	Histone methylase MLL1 coordinates with HIF and regulate lncRNA HOTAIR expression under hypoxia. <i>Gene</i> , 2017, 629, 16-28.	1.0	40
54	A multimodal assessment of balance in elderly and young adults. <i>Oncotarget</i> , 2016, 7, 13297-13306.	0.8	15

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55	Skeletal Muscle, but not Cardiovascular Function, Is Altered in a Mouse Model of Autosomal Recessive Hypophosphatemic Rickets. <i>Frontiers in Physiology</i> , 2016, 7, 173.	1.3	24
56	The effect of malaria and anti-malarial drugs on skeletal and cardiac muscles. <i>Malaria Journal</i> , 2016, 15, 524.	0.8	27
57	The Muscle-Bone Connection. , 2016, , 59-92.		3
58	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> , 2016, 291, 4308-4322.	1.6	42
59	Cellular and Physiological Effects of Dietary Supplementation with Î ² -Hydroxy-Î ² -Methylbutyrate (HMB) and Î ² -Alanine in Late Middle-Aged Mice. <i>PLoS ONE</i> , 2016, 11, e0150066.	1.1	22
60	MG29/SYPL2 Contributes to Dysregulation of Lipid Composition and Store Operated Ca ²⁺ Entry in Aging Skeletal Muscle. <i>Biophysical Journal</i> , 2015, 108, 268a-269a.	0.2	0
61	Prostaglandin E ₂ promotes proliferation of skeletal muscle myoblasts via EP4 receptor activation. <i>Cell Cycle</i> , 2015, 14, 1507-1516.	1.3	86
62	Bone and muscle: Interactions beyond mechanical. <i>Bone</i> , 2015, 80, 109-114.	1.4	232
63	Crosstalk between Bone and Muscle: Deletion of Mbtps1 in Bone Leads to Age-Dependent Increase in Muscle Size and Contractile Function. <i>FASEB Journal</i> , 2015, 29, 495.2.	0.2	0
64	Cellular and Physiological Implications of Dietary Supplementation with Beta-Hydroxy-Beta-Methylbutyrate and Beta-Alanine in Late Middle-Aged Mice. <i>FASEB Journal</i> , 2015, 29, LB693.	0.2	0
65	Tendon Cells Demonstrate Store-Operated Calcium Entry Capacity and Differences in Calcium Signaling Through Aging. <i>FASEB Journal</i> , 2015, 29, 815.7.	0.2	0
66	Prostaglandin E ₂ 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> , 2015, 29, 947.16.	0.2	0
67	Wnt3a and Wnt1 Enhance Myogenesis of C2C12 Myoblasts – Potential Mechanisms of Osteocyte to Muscle Cell Signaling. <i>FASEB Journal</i> , 2015, 29, 947.13.	0.2	0
68	Store-operated Ca ²⁺ -entry in muscle physiology and diseases. <i>BMB Reports</i> , 2014, 47, 69-79.	1.1	62
69	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> , 2014, 5, 37.	1.3	37
70	<i>METTL21C</i> Is a Potential Pleiotropic Gene for Osteoporosis and Sarcopenia Acting Through the Modulation of the NF-ÎB Signaling Pathway. <i>Journal of Bone and Mineral Research</i> , 2014, 29, 1531-1540.	3.1	80
71	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> , 2014, 14, 187-200.	0.5	15
72	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> , 2014, 63, 75-82.	0.8	26

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73	Extracellular Membrane Vesicles Derived from 143B Osteosarcoma Cells Contain Pro-Osteoclastogenic Cargo: A Novel Communication Mechanism in Osteosarcoma Bone Microenvironment. <i>Translational Oncology</i> , 2014, 7, 331-340.	1.7	50
74	Physiology of Mechanotransduction: How Do Muscle and Bone "Talk" to One Another?. <i>Clinical Reviews in Bone and Mineral Metabolism</i> , 2014, 12, 77-85.	1.3	65
75	Visual gene-network analysis reveals the cancer gene co-expression in human endometrial cancer. <i>BMC Genomics</i> , 2014, 15, 300.	1.2	94
76	Endocrine Crosstalk Between Muscle and Bone. <i>Current Osteoporosis Reports</i> , 2014, 12, 135-141.	1.5	83
77	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> , 2014, 29, 2618-2635.	3.1	57
78	Dysfunctional calcium homeostasis in aged mice primary tenocytes: a potential functional link to tendon disorders (863.10). <i>FASEB Journal</i> , 2014, 28, 863.10.	0.2	0
79	Wnt3a potentiates myogenesis in C2C12 myoblasts through the modulation of intracellular calcium and activation of the β -catenin signaling pathway (1102.23). <i>FASEB Journal</i> , 2014, 28, 1102.23.	0.2	0
80	Bone-muscle crosstalk: more than mechanical (704.3). <i>FASEB Journal</i> , 2014, 28, 704.3.	0.2	0
81	Pinhão (<i>Jatropha curcas</i>) demonstrates potent antibacterial properties in a rat model of third degree burns (1180.18). <i>FASEB Journal</i> , 2014, 28, 1180.18.	0.2	1
82	The Effect Of Prostaglandin E2 Signaling On Myogenic Differentiation And Muscle Contractility. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 308.	0.2	0
83	Outcomes of Stay Strong, Stay Healthy in Community Settings. <i>Journal of Aging and Health</i> , 2013, 25, 1388-1397.	0.9	28
84	A Dual Mode Pulsed Electro-Magnetic Cell Stimulator Produces Acceleration of Myogenic Differentiation. <i>Recent Patents on Biotechnology</i> , 2013, 7, 71-81.	0.4	6
85	DELETION OF MBTPS1 IN BONE LEADS TO ENHANCEMENT OF MUSCLE MASS AND FUNCTION IN MATURE MICE. <i>FASEB Journal</i> , 2013, 27, .	0.2	0
86	Characterization of myogenesis in C2C12 myoblasts using Flow Cytometry. <i>FASEB Journal</i> , 2013, 27, 1152.17.	0.2	0
87	METTL21C: From GWAS to in vitro function in skeletal muscle cells. <i>FASEB Journal</i> , 2013, 27, 942.5.	0.2	0
88	Prostaglandin E2 signaling plays an important role in the regulation of the cell cycle progression in C2C12 myoblasts. <i>FASEB Journal</i> , 2013, 27, 1152.18.	0.2	0
89	Bone-muscle interactions: ASBMR Topical Meeting, July 2012. <i>IBMS BoneKEy</i> , 2012, 9, .	0.1	6
90	Lessons from the FNIH-NIA-FDA sarcopenia consensus summit. <i>IBMS BoneKEy</i> , 2012, 9, .	0.1	10

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91	Sarcopenia: Pharmacology of Today and Tomorrow. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2012, 343, 540-546.	1.3	60
92	Ex Vivo&/em> Assessment of Contractility, Fatigability and Alternans in Isolated Skeletal Muscles. <i>Journal of Visualized Experiments</i> , 2012, , e4198.	0.2	38
93	Prostaglandin E2: From Clinical Applications to Its Potential Role in Bone- Muscle Crosstalk and Myogenic Differentiation. <i>Recent Patents on Biotechnology</i> , 2012, 6, 223-229.	0.4	109
94	Multiple–staged Regulation of Myogenic Differentiation by Prostaglandin E2. <i>FASEB Journal</i> , 2012, 26, 1143.1.	0.2	0
95	Cellular mechanisms of tendon–muscle crosstalk. <i>FASEB Journal</i> , 2012, 26, 1143.3.	0.2	0
96	Wnt3a a potent modulator of myogenic differentiation and muscle cell function. <i>FASEB Journal</i> , 2012, 26, 1143.2.	0.2	1
97	Aging, sarcopenia and store-operated calcium entry. <i>Cell Cycle</i> , 2011, 10, 4201-4202.	1.3	24
98	Store-Operated Ca ²⁺ Entry (SOCE) Contributes to Normal Skeletal Muscle Contractility in young but not in aged skeletal muscle. <i>Aging</i> , 2011, 3, 621-634.	1.4	53
99	Skeletal Muscles Maintain Osteocyte Viability. <i>FASEB Journal</i> , 2011, 25, 1059.18.	0.2	0
100	Temporal Adaptive Changes in Contractility and Fatigability of Diaphragm Muscles from Streptozotocin-Diabetic Rats. <i>Journal of Biomedicine and Biotechnology</i> , 2010, 2010, 1-8.	3.0	9
101	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> , 2010, 2, 504-513.	1.4	57
102	Mild Heat Shock Promotes Hypertrophy in Cardiac, Skeletal and Smooth Muscle Cells. <i>FASEB Journal</i> , 2010, 24, 1047.3.	0.2	0
103	Evidence for pathophysiological crosstalk between bones, cardiac, skeletal and smooth muscles. <i>FASEB Journal</i> , 2010, 24, 1046.8.	0.2	2
104	MIP/MTMR14 is implicated in skeletal muscle aging. <i>FASEB Journal</i> , 2010, 24, .	0.2	0
105	Deficiency of MIP/MTMR14 phosphatase induces a muscle disorder by disrupting Ca ²⁺ homeostasis. <i>Nature Cell Biology</i> , 2009, 11, 769-776.	4.6	91
106	Compromised store–operated Ca ²⁺ entry in aged skeletal muscle. <i>Aging Cell</i> , 2008, 7, 561-568.	3.0	77
107	Muscle aging is associated with compromised Ca ²⁺ spark signaling and segregated intracellular Ca ²⁺ release. <i>Journal of Cell Biology</i> , 2006, 174, 639-645.	2.3	120
108	Uncontrolled calcium sparks act as a dystrophic signal for mammalian skeletal muscle. <i>Nature Cell Biology</i> , 2005, 7, 525-530.	4.6	151

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109	Musculoskeletal Biomarkers Response to Exercise in Older Adults. <i>Frontiers in Aging</i> , 0, 3, .	1.2	1