Giuseppe D'Antona

List of Publications by Year
in descending order

113 papers	6,569 citations	87843 38 h-index	64755 79 g-index
115 all docs	115 docs citations	115 times ranked	7568 citing authors

#	Article	IF	Citations
1	Mesoangioblast stem cells ameliorate muscle function in dystrophic dogs. Nature, 2006, 444, 574-579.	13.7	692
2	Cell Therapy of Â-Sarcoglycan Null Dystrophic Mice Through Intra-Arterial Delivery of Mesoangioblasts. Science, 2003, 301, 487-492.	6.0	593
3	Branched-Chain Amino Acid Supplementation Promotes Survival and Supports Cardiac and Skeletal Muscle Mitochondrial Biogenesis in Middle-Aged Mice. Cell Metabolism, 2010, 12, 362-372.	7.2	467
4	The effect of ageing and immobilization on structure and function of human skeletal muscle fibres. Journal of Physiology, 2003, 552, 499-511.	1.3	387
5	Human circulating AC133+ stem cells restore dystrophin expression and ameliorate function in dystrophic skeletal muscle. Journal of Clinical Investigation, 2004, 114, 182-195.	3.9	315
6	Autologous Transplantation of Muscle-Derived CD133+ Stem Cells in Duchenne Muscle Patients. Cell Transplantation, 2007, 16, 563-577.	1.2	214
7	Restoration of Human Dystrophin Following Transplantation of Exon-Skipping-Engineered DMD Patient Stem Cells into Dystrophic Mice. Cell Stem Cell, 2007, 1, 646-657.	5.2	206
8	Facioscapulohumeral muscular dystrophy in mice overexpressing FRG1. Nature, 2006, 439, 973-977.	13.7	200
9	Orthologous myosin isoforms and scaling of shortening velocity with body size in mouse, rat, rabbit and human muscles. Journal of Physiology, 2003, 546, 677-689.	1.3	181
10	Respiratory muscle fibres: specialisation and plasticity. Thorax, 2004, 59, 808-817.	2.7	166
11	Branched-chain amino acids, mitochondrial biogenesis, and healthspan: an evolutionary perspective. Aging, 2011, 3, 464-478.	1.4	166
12	Nitric oxide release combined with nonsteroidal antiinflammatory activity prevents muscular dystrophy pathology and enhances stem cell therapy. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 264-269.	3.3	152
13	Stem Cellâ€"Mediated Transfer of a Human Artificial Chromosome Ameliorates Muscular Dystrophy. Science Translational Medicine, 2011, 3, 96ra78.	5.8	137
14	Body-wide gene therapy of Duchenne muscular dystrophy in the mdx mouse model. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3758-3763.	3.3	134
15	Skeletal muscle hypertrophy and structure and function of skeletal muscle fibres in male body builders. Journal of Physiology, 2006, 570, 611-627.	1.3	132
16	Neuromuscular electrical stimulation training induces atypical adaptations of the human skeletal muscle phenotype: a functional and proteomic analysis. Journal of Applied Physiology, 2011, 110, 433-450.	1.2	114
17	Analysis of motor patterns in the isolated guinea-pig large intestine by spatio-temporal maps. Neurogastroenterology and Motility, 2001, 13, 483-492.	1.6	101
18	The Long History of Vitamin C: From Prevention of the Common Cold to Potential Aid in the Treatment of COVID-19. Frontiers in Immunology, 2020, 11, 574029.	2.2	94

#	Article	IF	Citations
19	T and B lymphocyte depletion has a marked effect on the fibrosis of dystrophic skeletal muscles in the scid/mdx mouse. Journal of Pathology, 2007, 213, 229-238.	2.1	93
20	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, 603-611.	1.2	82
21	Fast fibres in a large animal: fibre types, contractile properties and myosin expression in pig skeletal muscles. Journal of Experimental Biology, 2004, 207, 1875-1886.	0.8	81
22	A Review of Countermovement and Squat Jump Testing Methods in the Context of Public Health Examination in Adolescence: Reliability and Feasibility of Current Testing Procedures. Frontiers in Physiology, 2019, 10, 1384.	1.3	77
23	Hypercatabolic Syndrome: Molecular Basis and Effects of Nutritional Supplements with Amino Acids. American Journal of Cardiology, 2008, 101, S11-S15.	0.7	75
24	Effects of vitamin D on insulin resistance and myosteatosis in diet-induced obese mice. PLoS ONE, 2018, 13, e0189707.	1.1	69
25	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.	1.3	64
26	Morphometric Changes Induced by Amino Acid Supplementation in Skeletal and Cardiac Muscles of Old Mice. American Journal of Cardiology, 2008, 101, S26-S34.	0.7	61
27	Evaluation of Central and Peripheral Fatigue in the Quadriceps Using Fractal Dimension and Conduction Velocity in Young Females. PLoS ONE, 2015, 10, e0123921.	1.1	61
28	Steroid myopathy: Some unresolved issues. Journal of Endocrinological Investigation, 2011, 34, 370-375.	1.8	60
29	Skeletal muscle fibre diversity and the underlying mechanisms. Acta Physiologica, 2010, 199, 465-476.	1.8	59
30	Focal adhesion kinase is a loadâ€dependent governor of the slow contractile and oxidative muscle phenotype. Journal of Physiology, 2009, 587, 3703-3717.	1.3	58
31	Single muscle fiber properties in aging and disuse. Scandinavian Journal of Medicine and Science in Sports, 2010, 20, 10-19.	1.3	56
32	Accumulation of Advanced Glycation End-Products and Activation of the SCAP/SREBP Lipogenetic Pathway Occur in Diet-Induced Obese Mouse Skeletal Muscle. PLoS ONE, 2015, 10, e0119587.	1.1	52
33	Clenbuterol antagonizes glucocorticoid-induced atrophy and fibre type transformation in mice. Experimental Physiology, 2004, 89, 89-100.	0.9	48
34	Bioavailability and In Vivo Antioxidant Activity of a Standardized Polyphenol Mixture Extracted from Brown Propolis. International Journal of Molecular Sciences, 2019, 20, 1250.	1.8	48
35	Natural products, PGC-1 , and Duchenne muscular dystrophy. Acta Pharmaceutica Sinica B, 2020, 10, 734-745.	5.7	48
36	Effects of voluntary wheel running and amino acid supplementation on skeletal muscle of mice. European Journal of Applied Physiology, 2005, 93, 655-664.	1.2	45

#	Article	IF	Citations
37	Chimeric Adeno-Associated Virus/Antisense U1 Small Nuclear RNA Effectively Rescues Dystrophin Synthesis and Muscle Function by Local Treatment of mdx Mice. Human Gene Therapy, 2006, 17, 565-574.	1.4	45
38	"Oxidative stress": effects of mild endurance training and testosterone treatment on rat gastrocnemius muscle. European Journal of Applied Physiology, 2002, 87, 550-555.	1.2	44
39	Contractile properties and myosin heavy chain isoform composition in single fibre of human laryngeal muscles. Journal of Muscle Research and Cell Motility, 2002, 23, 187-195.	0.9	38
40	Topical application of dressing with amino acids improves cutaneous wound healing in aged rats. Acta Histochemica, 2010, 112, 497-507.	0.9	36
41	Intracellular Mechanisms of Metabolism Regulation: The Role of Signaling via the Mammalian Target of Rapamycin Pathway and Other Routes. American Journal of Cardiology, 2008, 101, S16-S21.	0.7	33
42	Structural and functional alterations of muscle fibres in the novel mouse model of facioscapulohumeral muscular dystrophy. Journal of Physiology, 2007, 584, 997-1009.	1.3	32
43	Oral Amino Acid Supplementation Counteracts Age-Induced Sarcopenia in Elderly Rats. American Journal of Cardiology, 2008, 101, S35-S41.	0.7	31
44	Creatine, L-Carnitine, andÏ‰3 Polyunsaturated Fatty Acid Supplementation from Healthy to Diseased Skeletal Muscle. BioMed Research International, 2014, 2014, 1-16.	0.9	30
45	Long-term resistance training improves force and unloaded shortening velocity of single muscle fibres of elderly women. European Journal of Applied Physiology, 2008, 104, 885-893.	1.2	28
46	Absence of T and B lymphocytes modulates dystrophic features in dysferlin deficient animal model. Experimental Cell Research, 2012, 318, 1160-1174.	1.2	26
47	Amino Acid Supplementation Counteracts Metabolic and Functional Damage in the Diabetic Rat Heart. American Journal of Cardiology, 2008, 101, S49-S56.	0.7	25
48	Evidence-Based Role of Nutrients and Antioxidants for Chronic Pain Management in Musculoskeletal Frailty and Sarcopenia in Aging. Geriatrics (Switzerland), 2020, 5, 16.	0.6	25
49	A Peculiar Formula of Essential Amino Acids Prevents Rosuvastatin Myopathy in Mice. Antioxidants and Redox Signaling, 2016, 25, 595-608.	2.5	23
50	Effects of 12 Weeks of Essential Amino Acids (EAA)-Based Multi-Ingredient Nutritional Supplementation on Muscle Mass, Muscle Strength, Muscle Power and Fatigue in Healthy Elderly Subjects: A Randomized Controlled Double-Blind Study. Journal of Nutrition, Health and Aging, 2019, 23, 414-424.	1.5	23
51	Effects of Daily Low-Dose Date Consumption on Glycemic Control, Lipid Profile, and Quality of Life in Adults with Pre- and Type 2 Diabetes: A Randomized Controlled Trial. Nutrients, 2020, 12, 217.	1.7	23
52	MR imaging of atlantoaxial joint in early rheumatoid arthritis. Radiologia Medica, 2010, 115, 1111-1120.	4.7	22
53	Dietary supplementation with essential amino acids boosts the beneficial effects of rosuvastatin on mouse kidney. Amino Acids, 2014, 46, 2189-2203.	1.2	22
54	Supplementation with a selective amino acid formula ameliorates muscular dystrophy in mdx mice. Scientific Reports, 2018, 8, 14659.	1.6	22

#	Article	IF	Citations
55	Functional GABAB receptors are present in guinea pig nodose ganglion cell bodies but not in peripheral mechanosensitive endings. Autonomic Neuroscience: Basic and Clinical, 2002, 102, 20-29.	1.4	21
56	mTOR Signaling as a Target of Amino Acid Treatment of the Age-Related Sarcopenia. Interdisciplinary Topics in Gerontology, 2010, 37, 115-141.	3.6	21
57	Variability in Myosteatosis and Insulin Resistance Induced by High-Fat Diet in Mouse Skeletal Muscles. BioMed Research International, 2014, 2014, 1-10.	0.9	21
58	Reliability of surface electromyography in estimating muscle fiber conduction velocity: A systematic review. Journal of Electromyography and Kinesiology, 2019, 48, 53-68.	0.7	19
59	Blockade of IGF2R improves muscle regeneration and ameliorates Duchenne muscular dystrophy. EMBO Molecular Medicine, 2020, 12, e11019.	3.3	18
60	Natural Compounds Used as Therapies Targeting to Amyotrophic Lateral Sclerosis. Current Pharmaceutical Biotechnology, 2015, 16, 211-218.	0.9	18
61	Test-retest reliability of muscle fiber conduction velocity and fractal dimension of surface EMG during isometric contractions. Physiological Measurement, 2017, 38, 616-630.	1.2	17
62	Perspective: Practical Approach to Preventing Subclinical B12 Deficiency in Elderly Population. Nutrients, 2021, 13, 1913.	1.7	17
63	Amino Acid Supplements Improve Native Antioxidant Enzyme Expression in the Skeletal Muscle of Diabetic Mice. American Journal of Cardiology, 2008, 101, S57-S62.	0.7	16
64	Essential Amino Acid Supplementation Decreases Liver Damage Induced by Chronic Ethanol Consumption in Rats. International Journal of Immunopathology and Pharmacology, 2011, 24, 611-619.	1.0	16
65	Unaffected Arm Muscle Hypercatabolism in Dysphagic Subacute Stroke Patients: The Effects of Essential Amino Acid Supplementation. BioMed Research International, 2014, 2014, 1-17.	0.9	16
66	Essential Amino Acids Improve Insulin Activation of Akt/mTOR Signaling in Soleus Muscle of Aged Rats. International Journal of Immunopathology and Pharmacology, 2010, 23, 81-89.	1.0	15
67	Variability in Muscle Adaptation to Electrical Stimulation. International Journal of Sports Medicine, 2013, 34, 544-553.	0.8	15
68	Propagating contractions of the circular muscle evoked by slow stretch in flat sheets of guinea-pig ileum. Neurogastroenterology and Motility, 2001, 13, 519-531.	1.6	14
69	Opinion paper: scientific, philosophical and legal consideration of doping in sports. European Journal of Applied Physiology, 2018, 118, 729-736.	1.2	14
70	Inter-Gender sEMG Evaluation of Central and Peripheral Fatigue in Biceps Brachii of Young Healthy Subjects. PLoS ONE, 2016, 11, e0168443.	1.1	12
71	Association between Dietary Patterns of Meat and Fish Consumption with Bone Mineral Density or Fracture Risk: A Systematic Literature. Nutrients, 2017, 9, 1029.	1.7	12
72	The Ketogenic Diet: Is It an Answer for Sarcopenic Obesity?. Nutrients, 2022, 14, 620.	1.7	12

#	Article	IF	Citations
73	Effect of amino acid mixture on the isolated ischemic heart. American Journal of Cardiology, 2004, 93, 30-34.	0.7	11
74	Nitric oxide prevents atorvastatinâ€induced skeletal muscle dysfunction and alterations in mice. Muscle and Nerve, 2013, 47, 72-80.	1.0	10
75	Essential Amino Acids and Exercise Tolerance in Elderly Muscle-Depleted Subjects with Chronic Diseases: A Rehabilitation without Rehabilitation?. BioMed Research International, 2014, 2014, 1-8.	0.9	10
76	An integrated approach in a case of facioscapulohumeral dystrophy. BMC Musculoskeletal Disorders, 2014, 15, 155.	0.8	10
77	Validity and Reliability of a Non-invasive Test to Assess Quadriceps and Hamstrings Strength in Athletes. Frontiers in Physiology, 2018, 9, 1702.	1.3	10
78	Bioelectrical Impedance Vector Analysis Discriminates Aerobic Power in Futsal Players: The Role of Body Composition. Biology, 2022, 11, 505.	1.3	10
79	Sodium citrate supplementation: An updated revision and practical recommendations on exercise performance, hydration status, and potential risks. Translational Sports Medicine, 2020, 3, 518-525.	0.5	8
80	Supplementation with Essential Amino Acids in Middle Age Maintains the Health of Rat Kidney. International Journal of Immunopathology and Pharmacology, 2010, 23, 523-533.	1.0	7
81	Increased resistance towards fatigability in patients with facioscapulohumeral muscular dystrophy. European Journal of Applied Physiology, 2021, 121, 1617-1629.	1.2	7
82	Correction: Corrigendum: Mesoangioblast stem cells ameliorate muscle function in dystrophic dogs. Nature, 2013, 494, 506-506.	13.7	6
83	Correlation between Patellar Tendon Mechanical Properties and Oxygenation Detection by Near Infrared Spectroscopy in Males. Muscles, Ligaments and Tendons Journal, 2021, 11, 54.	0.1	6
84	Creatine in Skeletal Muscle Physiology. , 2019, , 59-68.		5
85	DXA-Derived Visceral Adipose Tissue (VAT) in Elderly: Percentiles of Reference for Gender and Association with Metabolic Outcomes. Life, 2020, 10, 163.	1.1	5
86	Evaluation of performance fatigability through surface EMG in health and muscle disease: state of the art. Arab Journal of Basic and Applied Sciences, 2021, 28, 21-40.	1.0	5
87	Physiological aspects of muscular adaptations to training translated to neuromuscular diseases. Acta Myologica, 2019, 38, 197-206.	1.5	5
88	Proteomic analysis of plasma after branched chain enriched mixture supplementation in mice. Journal of the International Society of Sports Nutrition, 2013, 10, 19.	1.7	4
89	Essential Amino Acids (EAA) Mixture Supplementation: Effects of an Acute Administration Protocol on Myoelectric Manifestations of Fatigue in the Biceps Brachii After Resistance Exercise. Frontiers in Physiology, 2018, 9, 1140.	1.3	4
90	Nutrition and Exercise in a Case of Carnitine Palmitoyl-Transferase II Deficiency. Frontiers in Physiology, 2021, 12, 637406.	1.3	4

#	Article	IF	Citations
91	Behind the mask: Rethinking the use of face masks while exercising. Science and Sports, 2021, 36, 430-432.	0.2	4
92	Exercise, Nutrition, and Supplements in the Muscle Carnitine Palmitoyl-Transferase II Deficiency: New Theoretical Bases for Potential Applications. Frontiers in Physiology, 2021, 12, 704290.	1.3	3
93	Brain Oxygenation in Post-concussion Combat Sport Athletes. Frontiers in Sports and Active Living, 2021, 3, 725096.	0.9	3
94	Disturbing Weight Cutting Behaviors in Young Combat Sports Athletes: A Cause for Concern. Frontiers in Nutrition, 2022, 9, 842262.	1.6	3
95	Effects of a Single Dose of a Creatine-Based Multi-Ingredient Pre-workout Supplement Compared to Creatine Alone on Performance Fatigability After Resistance Exercise: A Double-Blind Crossover Design Study. Frontiers in Nutrition, 0, 9, .	1.6	3
96	Proteomic analysis of plasma after 4 weeks of intermittent fasting in mice. Mediterranean Journal of Nutrition and Metabolism, 2013, 6, 227-232.	0.2	2
97	Nutrients and Muscle Disease. BioMed Research International, 2015, 2015, 1-2.	0.9	2
98	mTOR, Nutrition, and Aging. , 2016, , 141-154.		2
99	Acute Exposure to Essential Amino Acids (EAA) Activates MTOR/p70 Signaling in Soleus Muscle of Chronically EAA-Treated Aged Rats. International Journal of Immunopathology and Pharmacology, 2013, 26, 673-680.	1.0	1
100	Correlations Between Myoelectric and Hemodynamic Parameters Changes in Biceps Brachii During Sustained Isometric Contraction in Healthy Elderly. Journal of Science in Sport and Exercise, 2019, 1, 116-123.	0.4	1
101	Comparison of Cardiorespiratory and Metabolic Responses Between Kettlebell Half Marathon and Treadmill Running at the Same Average Oxygen Consumption: A Case Study. Journal of Science in Sport and Exercise, 2020, , 1.	0.4	1
102	Editorial: Predicting Individual Responses to Exercise Interventions. Frontiers in Physiology, 2020, 11, 559878.	1.3	1
103	Identification of muscle innervation zones using linear electrode arrays: a fundamental step to measure fibers conduction velocity. Arab Journal of Basic and Applied Sciences, 2021, 28, 264-271.	1.0	1
104	Amino Acid Supplements and Diabetes. , 2013, , 83-95.		0
105	Proteomic analysis of plasma after 4 weeks of intermittent fasting in mice. Mediterranean Journal of Nutrition and Metabolism, 2013, 6, 227-232.	0.2	0
106	Essential Amino Acid Supplementation for the Prevention and Treatment of Obesity. , 2014, , 447-458.		0
107	Amino Acids Supplementation as Nutritional Therapy Strategy in Diabetes Mellitus. , 2015, , 387-401.		0
108	Muscle Fiber Conduction Velocity Correlates With the Age at Onset in Mild FSHD Cases. Frontiers in Physiology, 2021, 12, 686176.	1.3	0

#	Article	IF	Citations
109	Chimeric Adeno-Associated Virus/Antisense U1 Small Nuclear RNA Effectively Rescues Dystrophin Synthesis and Muscle Function by Local Treatment of mdx Mice. Human Gene Therapy, 2006, .	1.4	0
110	Muscle mass at the top: a likely role for fibre hyperplasia in humans. , 2006, , 26-27.		0
111	Focal adhesion kinase controls loadâ€dependent myofibre differentiation. FASEB Journal, 2008, 22, .	0.2	0
112	Study of the activation and oxygenation of multifidus and gluteus medius muscles during stretching of the lower limb posterior chain: comparison between two different executions techniques. Muscles, Ligaments and Tendons Journal, 2020, 10, 424.	0.1	0
113	Editorial: Predicting Individual Responses to Exercise Interventions, Volume II. Frontiers in Physiology, 2022, 13, 850919.	1.3	0