

Joan R Torrella

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

1,243
citations

361296

20
h-index

414303

32
g-index

75
all docs

75
docs citations

75
times ranked

1584
citing authors

#	ARTICLE	IF	CITATIONS
1	Sustained swimming improves muscle growth and cellularity in gilthead sea bream. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2011, 181, 209-217.	0.7	91
2	Physical exercise prior and during treatment reduces sub-chronic doxorubicin-induced mitochondrial toxicity and oxidative stress. <i>Mitochondrion</i> , 2015, 20, 22-33.	1.6	79
3	Physiological and Biological Responses to Short-Term Intermittent Hypobaric Hypoxia Exposure: From Sports and Mountain Medicine to New Biomedical Applications. <i>Frontiers in Physiology</i> , 2018, 9, 814.	1.3	72
4	Swimming-induced exercise promotes hypertrophy and vascularization of fast skeletal muscle fibres and activation of myogenic and angiogenic transcriptional programs in adult zebrafish. <i>BMC Genomics</i> , 2014, 15, 1136.	1.2	67
5	Edible Microalgae and Their Bioactive Compounds in the Prevention and Treatment of Metabolic Alterations. <i>Nutrients</i> , 2021, 13, 563.	1.7	55
6	Physical exercise prevents and mitigates non-alcoholic steatohepatitis-induced liver mitochondrial structural and bioenergetics impairments. <i>Mitochondrion</i> , 2014, 15, 40-51.	1.6	48
7	Exercise modulates liver cellular and mitochondrial proteins related to quality control signaling. <i>Life Sciences</i> , 2015, 135, 124-130.	2.0	48
8	Capillarity, Fibre Types and Fibre Morphometry in Different Sampling Sites across and along the Tibialis anterior Muscle of the Rat. <i>Cells Tissues Organs</i> , 2000, 167, 153-162.	1.3	43
9	Exercise and Doxorubicin Treatment Modulate Cardiac Mitochondrial Quality Control Signaling. <i>Cardiovascular Toxicology</i> , 2018, 18, 43-55.	1.1	40
10	Exercise alters liver mitochondria phospholipidomic profile and mitochondrial activity in non-alcoholic steatohepatitis. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 54, 163-173.	1.2	39
11	Comparative skeletal muscle fibre morphometry among wild birds with different locomotor behaviour. <i>Journal of Anatomy</i> , 1998, 192, 211-222.	0.9	32
12	Synergistic impact of endurance training and intermittent hypobaric hypoxia on cardiac function and mitochondrial energetic and signaling. <i>International Journal of Cardiology</i> , 2013, 168, 5363-5371.	0.8	32
13	Modulation of cardiac mitochondrial permeability transition and apoptotic signaling by endurance training and intermittent hypobaric hypoxia. <i>International Journal of Cardiology</i> , 2014, 173, 40-45.	0.8	32
14	Capillary supply, fibre types and fibre morphometry in rat tibialis anterior and diaphragm muscles after intermittent exposure to hypobaric hypoxia. <i>European Journal of Applied Physiology</i> , 2008, 103, 203-213.	1.2	29
15	Oxidative Stress Status in Rats After Intermittent Exposure to Hypobaric Hypoxia. <i>Wilderness and Environmental Medicine</i> , 2010, 21, 325-331.	0.4	26
16	Postinjury Exercise and Platelet-Rich Plasma Therapies Improve Skeletal Muscle Healing in Rats But Are Not Synergistic When Combined. <i>American Journal of Sports Medicine</i> , 2017, 45, 2131-2141.	1.9	26
17	Capillarity and fibre types in locomotory muscles of wild mallard ducks (<i>Anas platyrhynchos</i>). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1996, 166, 164-177.	0.7	24
18	Capillary Supply and Fiber Morphometry in Rat Myocardium after Intermittent Exposure to Hypobaric Hypoxia. <i>High Altitude Medicine and Biology</i> , 2007, 8, 322-330.	0.5	23

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19	Exercise mitigates diclofenac-induced liver mitochondrial dysfunction. <i>European Journal of Clinical Investigation</i> , 2014, 44, 668-677.	1.7	23
20	Innervation distribution pattern, nerve ending structure, and fiber types in pigeon skeletal muscle. <i>The Anatomical Record</i> , 1993, 237, 178-186.	2.3	21
21	A histochemical ATPase method for the demonstration of the muscle capillary network.. <i>Journal of Histochemistry and Cytochemistry</i> , 1993, 41, 283-289.	1.3	21
22	Cardiorespiratory parameters during submaximal exercise under acute exposure to normobaric and hypobaric hypoxia. <i>Apunts Medicine De L'Esport</i> , 2012, 47, 65-72.	0.5	20
23	Physical exercise antagonizes clinical and anatomical features characterizing Lieber-DeCarli diet-induced obesity and related metabolic disorders. <i>Clinical Nutrition</i> , 2015, 34, 241-247.	2.3	20
24	Skeletal muscle capillarization and fiber types in urban and homing pigeons (<i>Columba livia</i>). <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1992, 101, 751-757.	0.7	19
25	Endurance training and chronic intermittent hypoxia modulate in vitro salicylate-induced hepatic mitochondrial dysfunction. <i>Mitochondrion</i> , 2012, 12, 607-616.	1.6	19
26	Implication of gut microbiota in the physiology of rats intermittently exposed to cold and hypobaric hypoxia. <i>PLoS ONE</i> , 2020, 15, e0240686.	1.1	16
27	Intermittent hypobaric hypoxia combined with aerobic exercise improves muscle morphofunctional recovery after eccentric exercise to exhaustion in trained rats. <i>Journal of Applied Physiology</i> , 2017, 122, 580-592.	1.2	15
28	Blood Rheology Adjustments in Rats after a Program of Intermittent Exposure to Hypobaric Hypoxia. <i>High Altitude Medicine and Biology</i> , 2009, 10, 275-281.	0.5	14
29	Modulation of mitochondrial biomarkers by intermittent hypobaric hypoxia and aerobic exercise after eccentric exercise in trained rats. <i>Applied Physiology, Nutrition and Metabolism</i> , 2017, 42, 683-693.	0.9	14
30	Sustained swimming enhances white muscle capillarisation and growth by hyperplasia in gilthead sea bream (<i>Sparus aurata</i>) fingerlings. <i>Aquaculture</i> , 2019, 501, 397-403.	1.7	14
31	A New Surgical Model of Skeletal Muscle Injuries in Rats Reproduces Human Sports Lesions. <i>International Journal of Sports Medicine</i> , 2016, 37, 183-190.	0.8	13
32	Physical exercise positively modulates DOX-induced hepatic oxidative stress, mitochondrial dysfunction and quality control signaling. <i>Mitochondrion</i> , 2019, 47, 103-113.	1.6	13
33	Hemorheology and oxygen transport in vertebrates. A role in thermoregulation?. <i>Journal of Physiology and Biochemistry</i> , 2003, 59, 277-286.	1.3	12
34	Effect of intermittent hypoxia and exercise on blood rheology and oxygen transport in trained rats. <i>Respiratory Physiology and Neurobiology</i> , 2014, 192, 112-117.	0.7	12
35	Circadian and Sex Differences After Acute High-Altitude Exposure: Are Early Acclimation Responses Improved by Blue Light?. <i>Wilderness and Environmental Medicine</i> , 2015, 26, 459-471.	0.4	11
36	Intermittent Hypobaric Hypoxic Preconditioning Provides Neuroprotection by Increasing Antioxidant Activity, Erythropoietin Expression and Preventing Apoptosis and Astroglialosis in the Brain of Adult Rats Exposed to Acute Severe Hypoxia. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5272.	1.8	11

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37	Capillarity and Fibre Types in Locomotory Muscles of Wild Yellow-legged Gulls (<i>Larus cachinnans</i>). <i>Physiological Zoology</i> , 1998, 71, 425-434.	1.5	10
38	A semiquantitative scoring tool to evaluate eccentric exercise-induced muscle damage in trained rats. <i>European Journal of Histochemistry</i> , 2015, 59, 2544.	0.6	10
39	Sildenafil does not Improve Exercise Capacity under Acute Hypoxia Exposure. <i>International Journal of Sports Medicine</i> , 2016, 37, 785-791.	0.8	10
40	Self-Paced Free-Running Wheel Mimics High-Intensity Interval Training Impact on Rats' Functional, Physiological, Biochemical, and Morphological Features. <i>Frontiers in Physiology</i> , 2019, 10, 593.	1.3	10
41	Additive Effects of Intermittent Hypobaric Hypoxia and Endurance Training on Bodyweight, Food Intake, and Oxygen Consumption in Rats. <i>High Altitude Medicine and Biology</i> , 2018, 19, 278-285.	0.5	8
42	Effects of Intermittent Hypoxia and Light Aerobic Exercise on Circulating Stem Cells and Side Population, after Strenuous Eccentric Exercise in Trained Rats. <i>Current Stem Cell Research and Therapy</i> , 2015, 10, 132-139.	0.6	8
43	A combined myosin ATPase and acetylcholinesterase histochemical method for the demonstration of fibre types and their innervation pattern in skeletal muscle. <i>Histochemistry</i> , 1993, 99, 369-372.	1.9	7
44	Morphofunctional responses to anaemia in rat skeletal muscle. <i>Journal of Anatomy</i> , 2008, 212, 836-844.	0.9	7
45	Enzyme activity and myoglobin concentration in rat myocardium and skeletal muscles after passive intermittent simulated altitude exposure. <i>Journal of Sports Sciences</i> , 2009, 27, 633-640.	1.0	7
46	Muscle Precursor Cells Enhance Functional Muscle Recovery and Show Synergistic Effects With Postinjury Treadmill Exercise in a Muscle Injury Model in Rats. <i>American Journal of Sports Medicine</i> , 2021, 49, 1073-1085.	1.9	7
47	Capillarity and fiber types in locomotory muscles of wild common coots, <i>Fulica atra</i> . <i>Journal of Morphology</i> , 1998, 237, 147-164.	0.6	6
48	Descriptive and functional morphometry of skeletal muscle fibres in wild birds. <i>Canadian Journal of Zoology</i> , 1999, 77, 724-736.	0.4	6
49	Inter-Individual Different Responses to Continuous and Interval Training in Recreational Middle-Aged Women Runners. <i>Frontiers in Physiology</i> , 2020, 11, 579835.	1.3	6
50	Effects of Oxygen Supplementation on Acute Mountain Sickness Symptoms and Functional Capacity During a 2-Kilometer Walk Test on Chajnantor Plateau (5050 Meters, Northern Chile). <i>Wilderness and Environmental Medicine</i> , 2011, 22, 250-256.	0.4	5
51	Contractile Activity Is Necessary to Trigger Intermittent Hypobaric Hypoxia-Induced Fiber Size and Vascular Adaptations in Skeletal Muscle. <i>Frontiers in Physiology</i> , 2018, 9, 481.	1.3	5
52	A three-criteria performance score for rats exercising on a running treadmill. <i>PLoS ONE</i> , 2019, 14, e0219167.	1.1	5
53	Physiological Effects of Intermittent Passive Exposure to Hypobaric Hypoxia and Cold in Rats. <i>Frontiers in Physiology</i> , 2021, 12, 673095.	1.3	5
54	Histomorphological and functional contralateral symmetry in the gastrocnemius muscles of the laboratory rat. <i>Journal of Anatomy</i> , 2022, 241, 692-701.	0.9	5

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55	Vybrant DyeCycle Violet Stain Discriminates Two Different Subsets of CD34+ Cells. <i>Current Stem Cell Research and Therapy</i> , 2016, 11, 66-71.	0.6	4
56	High-intensity interval versus moderate-intensity continuous half-marathon training programme for middle-aged women. <i>European Journal of Applied Physiology</i> , 2020, 120, 1083-1096.	1.2	4
57	Building a fit muscles for the future. <i>European Journal of Clinical Investigation</i> , 2021, 51, e13515.	1.7	4
58	Benefits on Hematological and Biochemical Parameters of a High-Intensity Interval Training Program for a Half-Marathon in Recreational Middle-Aged Women Runners. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 498.	1.2	3
59	Intermittent hypobaric hypoxia induces changes at a different extent in biochemical parameters depending on muscle activity degree. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2007, 146, S184.	0.8	2
60	The effect of high-frequency neuromuscular electrical stimulation training on skeletal muscle properties in mice. <i>Archives of Biological Sciences</i> , 2017, 69, 391-397.	0.2	2
61	A field tool for the aerobic power evaluation of middle-aged female recreational runners. <i>Women and Health</i> , 2020, 60, 839-848.	0.4	1
62	Gestational Exercise Increases Male Offspring's Maximal Workload Capacity Early in Life. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3916.	1.8	1
63	Method of Combined Intermittent Hypoxia and Surface Muscle Electrostimulation for Enhancing Peripheral Stem Cells in Humans. , 2012, , 303-308.		0
64	Intermittent Hypoxia Increases Mitochondrial Dynamics and Biogenesis After Eccentric Exercise-Induced Muscle Damage in Trained Rats. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 899-900.	0.2	0
65	Can sildenafil improve physical performance at altitude? Current scientific evidence. <i>Apunts Medicine De L'Esport</i> , 2016, 51, 27-35.	0.5	0
66	Exercise Positively Modulates Mitochondrial Permeability Transition and Apoptotic and Autophagic Signaling in Non-Alcoholic Steatohepatitis (NASH). <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 634.	0.2	0
67	Chronic Intermittent Hypoxia Alters Hepatic Markers Of Mitochondrial Dynamics And Autophagy Signaling. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 575.	0.2	0
68	Intermittent hypobaric hypoxia and cold treatment after gastrocnemius muscle injury enhance redox balance and avoids UPS activation. <i>Free Radical Biology and Medicine</i> , 2021, 177, S101-S102.	1.3	0
69	Title is missing!. , 2020, 15, e0240686.		0
70	Title is missing!. , 2020, 15, e0240686.		0
71	Title is missing!. , 2020, 15, e0240686.		0
72	Title is missing!. , 2020, 15, e0240686.		0