

Jos Gonzlez-Alonso

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73
papers

5,241
citations

38
h-index

72
g-index

82
ext. papers

5,736
ext. citations

4.3
avg, IF

5.62
L-index

#	Paper	IF	Citations
73	Influence of body temperature on the development of fatigue during prolonged exercise in the heat. <i>Journal of Applied Physiology</i> , 1999 , 86, 1032-9	3.7	769
72	Erythrocyte and the regulation of human skeletal muscle blood flow and oxygen delivery: role of circulating ATP. <i>Circulation Research</i> , 2002 , 91, 1046-55	15.7	265
71	Reductions in systemic and skeletal muscle blood flow and oxygen delivery limit maximal aerobic capacity in humans. <i>Circulation</i> , 2003 , 107, 824-30	16.7	253
70	The cardiovascular challenge of exercising in the heat. <i>Journal of Physiology</i> , 2008 , 586, 45-53	3.9	238
69	Brain and central haemodynamics and oxygenation during maximal exercise in humans. <i>Journal of Physiology</i> , 2004 , 557, 331-42	3.9	201
68	Muscle blood flow is reduced with dehydration during prolonged exercise in humans. <i>Journal of Physiology</i> , 1998 , 513 (Pt 3), 895-905	3.9	184
67	Limitations to systemic and locomotor limb muscle oxygen delivery and uptake during maximal exercise in humans. <i>Journal of Physiology</i> , 2005 , 566, 273-85	3.9	166
66	Circulating ATP-induced vasodilatation overrides sympathetic vasoconstrictor activity in human skeletal muscle. <i>Journal of Physiology</i> , 2004 , 558, 351-65	3.9	138
65	Heat production in human skeletal muscle at the onset of intense dynamic exercise. <i>Journal of Physiology</i> , 2000 , 524 Pt 2, 603-15	3.9	137
64	Exercising skeletal muscle blood flow in humans responds to reduction in arterial oxyhaemoglobin, but not to altered free oxygen. <i>Journal of Physiology</i> , 2001 , 530, 331-41	3.9	127
63	Metabolic and thermodynamic responses to dehydration-induced reductions in muscle blood flow in exercising humans. <i>Journal of Physiology</i> , 1999 , 520 Pt 2, 577-89	3.9	121
62	Cardiac output and leg and arm blood flow during incremental exercise to exhaustion on the cycle ergometer. <i>Journal of Applied Physiology</i> , 2007 , 103, 969-78	3.7	120
61	Stroke volume during exercise: interaction of environment and hydration. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 278, H321-30	5.2	118
60	Effects of marked hyperthermia with and without dehydration on VO(2) kinetics during intense exercise. <i>Journal of Applied Physiology</i> , 2001 , 90, 1057-64	3.7	117
59	Inhibition of nitric oxide and prostaglandins, but not endothelial-derived hyperpolarizing factors, reduces blood flow and aerobic energy turnover in the exercising human leg. <i>Journal of Physiology</i> , 2007 , 581, 853-61	3.9	114
58	Restrictions in systemic and locomotor skeletal muscle perfusion, oxygen supply and VO2 during high-intensity whole-body exercise in humans. <i>Journal of Physiology</i> , 2008 , 586, 2621-35	3.9	107
57	ATP production and efficiency of human skeletal muscle during intense exercise: effect of previous exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001 , 280, E956-64	6	105

56	Supraspinal fatigue after normoxic and hypoxic exercise in humans. <i>Journal of Physiology</i> , 2012 , 590, 2767-82	3.9	103
55	Muscle mitochondrial capacity exceeds maximal oxygen delivery in humans. <i>Mitochondrion</i> , 2011 , 11, 303-7	4.9	103
54	Human thermoregulation and the cardiovascular system. <i>Experimental Physiology</i> , 2012 , 97, 340-6	2.4	94
53	Erythrocytes and the regulation of human skeletal muscle blood flow and oxygen delivery: role of erythrocyte count and oxygenation state of haemoglobin. <i>Journal of Physiology</i> , 2006 , 572, 295-305	3.9	90
52	Haemodynamic responses to exercise, ATP infusion and thigh compression in humans: insight into the role of muscle mechanisms on cardiovascular function. <i>Journal of Physiology</i> , 2008 , 586, 2405-17	3.9	86
51	ATP-induced vasodilation and purinergic receptors in the human leg: roles of nitric oxide, prostaglandins, and adenosine. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009 , 296, R1140-8	3.2	85
50	Hemodynamic responses to heat stress in the resting and exercising human leg: insight into the effect of temperature on skeletal muscle blood flow. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011 , 300, R663-73	3.2	83
49	Muscle heat production and anaerobic energy turnover during repeated intense dynamic exercise in humans. <i>Journal of Physiology</i> , 2001 , 536, 947-56	3.9	76
48	Left ventricular mechanical limitations to stroke volume in healthy humans during incremental exercise. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 301, H478-87	5.2	67
47	Muscle interstitial ATP and norepinephrine concentrations in the human leg during exercise and ATP infusion. <i>Journal of Applied Physiology</i> , 2009 , 107, 1757-62	3.7	64
46	Dehydration affects cerebral blood flow but not its metabolic rate for oxygen during maximal exercise in trained humans. <i>Journal of Physiology</i> , 2014 , 592, 3143-60	3.9	62
45	Activation of ATP/UTP-selective receptors increases blood flow and blunts sympathetic vasoconstriction in human skeletal muscle. <i>Journal of Physiology</i> , 2008 , 586, 4993-5002	3.9	61
44	Recruitment of fibre types and quadriceps muscle portions during repeated, intense knee-extensor exercise in humans. <i>Pflugers Archiv European Journal of Physiology</i> , 2004 , 449, 56-65	4.6	59
43	Consensus Recommendations on Training and Competing in the Heat. <i>Sports Medicine</i> , 2015 , 45, 925-38	10.6	55
42	Intravascular ADP and soluble nucleotidases contribute to acute prothrombotic state during vigorous exercise in humans. <i>Journal of Physiology</i> , 2007 , 579, 553-64	3.9	55
41	Human skeletal muscle sympathetic nerve activity, heart rate and limb haemodynamics with reduced blood oxygenation and exercise. <i>Journal of Physiology</i> , 2003 , 551, 635-47	3.9	52
40	Skeletal muscle substrate metabolism during exercise: methodological considerations. <i>Proceedings of the Nutrition Society</i> , 1999 , 58, 899-912	2.9	47
39	Temperature-dependent release of ATP from human erythrocytes: mechanism for the control of local tissue perfusion. <i>Experimental Physiology</i> , 2012 , 97, 419-32	2.4	45

38	ATP as a mediator of erythrocyte-dependent regulation of skeletal muscle blood flow and oxygen delivery in humans. <i>Journal of Physiology</i> , 2012 , 590, 5001-13	3.9	44
37	Effects of graded heat stress on global left ventricular function and twist mechanics at rest and during exercise in healthy humans. <i>Experimental Physiology</i> , 2011 , 96, 114-24	2.4	42
36	Dehydration reduces left ventricular filling at rest and during exercise independent of twist mechanics. <i>Journal of Applied Physiology</i> , 2011 , 111, 891-7	3.7	41
35	Hyperthermia impairs brain, heart and muscle function in exercising humans. <i>Sports Medicine</i> , 2007 , 37, 371-3	10.6	38
34	Supine exercise restores arterial blood pressure and skin blood flow despite dehydration and hyperthermia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 277, H576-83	5.2	38
33	Erythrocyte-dependent regulation of human skeletal muscle blood flow: role of varied oxyhemoglobin and exercise on nitrite, S-nitrosohemoglobin, and ATP. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 299, H1936-46	5.2	37
32	Dehydration accelerates reductions in cerebral blood flow during prolonged exercise in the heat without compromising brain metabolism. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 309, H1598-607	5.2	36
31	Effects of blood withdrawal and reinfusion on biomarkers of erythropoiesis in humans: Implications for anti-doping strategies. <i>Haematologica</i> , 2006 , 91, 1006-8	6.6	35
30	Heat, Hydration and the Human Brain, Heart and Skeletal Muscles. <i>Sports Medicine</i> , 2019 , 49, 69-85	10.6	33
29	Temperature and blood flow distribution in the human leg during passive heat stress. <i>Journal of Applied Physiology</i> , 2016 , 120, 1047-58	3.7	33
28	Local temperature-sensitive mechanisms are important mediators of limb tissue hyperemia in the heat-stressed human at rest and during small muscle mass exercise. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 309, H369-80	5.2	30
27	Exercise intensity modulates the appearance of circulating microvesicles with proangiogenic potential upon endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 311, H1297-H1310	5.2	30
26	Practical Hydration Solutions for Sports. <i>Nutrients</i> , 2019 , 11,	6.7	24
25	Blood temperature and perfusion to exercising and non-exercising human limbs. <i>Experimental Physiology</i> , 2015 , 100, 1118-31	2.4	23
24	New Insights Into the Impact of Dehydration on Blood Flow and Metabolism During Exercise. <i>Exercise and Sport Sciences Reviews</i> , 2017 , 45, 146-153	6.7	21
23	Point: Stroke volume does/does not decline during exercise at maximal effort in healthy individuals. <i>Journal of Applied Physiology</i> , 2008 , 104, 275-6; discussion 279-80	3.7	21
22	Separate and combined effects of heat stress and exercise on circulatory markers of oxidative stress in euhydrated humans. <i>European Journal of Applied Physiology</i> , 2010 , 110, 953-60	3.4	19
21	Effects of graded exercise-induced dehydration and rehydration on circulatory markers of oxidative stress across the resting and exercising human leg. <i>European Journal of Applied Physiology</i> , 2012 , 112, 1937-44	3.4	17

20	Mechanisms for the control of local tissue blood flow during thermal interventions: influence of temperature-dependent ATP release from human blood and endothelial cells. <i>Experimental Physiology</i> , 2017 , 102, 228-244	2.4	16
19	Common Carotid Artery Diameter, Blood Flow Velocity and Wave Intensity Responses at Rest and during Exercise in Young Healthy Humans: A Reproducibility Study. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 943-957	3.5	15
18	Whole body hyperthermia, but not skin hyperthermia, accelerates brain and locomotor limb circulatory strain and impairs exercise capacity in humans. <i>Physiological Reports</i> , 2017 , 5, e13108	2.6	13
17	Dehydration reduces stroke volume and cardiac output during exercise because of impaired cardiac filling and venous return, not left ventricular function. <i>Physiological Reports</i> , 2020 , 8, e14433	2.6	13
16	Heat Acclimation with Controlled Heart Rate: Influence of Hydration Status. <i>Medicine and Science in Sports and Exercise</i> , 2020 , 52, 1815-1824	1.2	12
15	Haemodynamic responses to dehydration in the resting and exercising human leg. <i>European Journal of Applied Physiology</i> , 2013 , 113, 1499-509	3.4	9
14	Whole-body heat stress and exercise stimulate the appearance of platelet microvesicles in plasma with limited influence of vascular shear stress. <i>Physiological Reports</i> , 2017 , 5, e13496	2.6	7
13	Influence of erythrocyte oxygenation and intravascular ATP on resting and exercising skeletal muscle blood flow in humans with mitochondrial myopathy. <i>Mitochondrion</i> , 2012 , 12, 414-22	4.9	6
12	Author's Reply to Brocherie and Millet: 'Is the Wet-Bulb Globe Temperature (WGBT) Index Relevant for Exercise in the Heat?'. <i>Sports Medicine</i> , 2015 , 45, 1623-4	10.6	5
11	ATP: a double-edged signalling molecule regulating the flow of oxygen. <i>Journal of Physiology</i> , 2008 , 586, 4033-4	3.9	4
10	Exercise heat acclimation has minimal effects on left ventricular volumes, function and systemic hemodynamics in euhydrated and dehydrated trained humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020 , 319, H965-H979	5.2	3
9	Regional thermal hyperemia in the human leg: Evidence of the importance of thermosensitive mechanisms in the control of the peripheral circulation. <i>Physiological Reports</i> , 2021 , 9, e14953	2.6	3
8	The ubiquitous ATP molecule: could it be the elusive thermal mediator igniting skin perfusion and sweating in the heat-stressed human?. <i>Journal of Physiology</i> , 2015 , 593, 2399	3.9	1
7	Integrative Human Cardiovascular Responses to Hyperthermia 2019 , 45-65		0
6	Exercise Heat Acclimation With Dehydration Does Not Affect Vascular and Cardiac Volumes or Systemic Hemodynamics During Endurance Exercise. <i>Frontiers in Physiology</i> , 2021 , 12, 740121	4.6	0
5	Last Word on Point:Counterpoint: Stroke volume does/does not decline during exercise at maximal effort in healthy individuals. <i>Journal of Applied Physiology</i> , 2008 , 104, 284-284	3.7	
4	Muscle interstitial norepinephrine and nucleotides during exercise and arterial ATP infusion. <i>FASEB Journal</i> , 2008 , 22, 1211.12	0.9	
3	Reply to Letter to the editor: Left ventricular mechanical limitations to stroke volume in healthy humans during incremental exercise' <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H376-H377	5.2	

- 2 The Road to the Beijing Winter Olympics and Beyond: Opinions and Perspectives on Physiology and Innovation in Winter Sport. *Journal of Science in Sport and Exercise*,1 1
- 1 Hydration and the human brain circulation and metabolism. *Nutricion Hospitalaria*, **2015**, 32 Suppl 2, 10261