

Dumitru Constantin-Teodosiu

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89
papers

3,356
citations

32
h-index

56
g-index

95
ext. papers

3,757
ext. citations

5.4
avg, IF

4.93
L-index

#	Paper	IF	Citations
89	The effects of increasing exercise intensity on muscle fuel utilisation in humans. <i>Journal of Physiology</i> , 2001 , 536, 295-304	3.9	517
88	New insights concerning the role of carnitine in the regulation of fuel metabolism in skeletal muscle. <i>Journal of Physiology</i> , 2007 , 581, 431-44	3.9	249
87	Systematic analysis of adaptations in aerobic capacity and submaximal energy metabolism provides a unique insight into determinants of human aerobic performance. <i>Journal of Applied Physiology</i> , 2009 , 106, 1479-86	3.7	129
86	A potential role for Akt/FOXO signalling in both protein loss and the impairment of muscle carbohydrate oxidation during sepsis in rodent skeletal muscle. <i>Journal of Physiology</i> , 2008 , 586, 5589-600	3.9	127
85	Regulation of human metabolism by hypoxia-inducible factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 12722-7	11.5	122
84	Chronic oral ingestion of L-carnitine and carbohydrate increases muscle carnitine content and alters muscle fuel metabolism during exercise in humans. <i>Journal of Physiology</i> , 2011 , 589, 963-73	3.9	121
83	Oxygen uptake on-kinetics in dog gastrocnemius in situ following activation of pyruvate dehydrogenase by dichloroacetate. <i>Journal of Physiology</i> , 2002 , 538, 195-207	3.9	99
82	Blunted Akt/FOXO signalling and activation of genes controlling atrophy and fuel use in statin myopathy. <i>Journal of Physiology</i> , 2009 , 587, 219-30	3.9	86
81	Insulin stimulates L-carnitine accumulation in human skeletal muscle. <i>FASEB Journal</i> , 2006 , 20, 377-9	0.9	72
80	An acute increase in skeletal muscle carnitine content alters fuel metabolism in resting human skeletal muscle. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2006 , 91, 5013-8	5.6	69
79	Substrate availability limits human skeletal muscle oxidative ATP regeneration at the onset of ischemic exercise. <i>Journal of Clinical Investigation</i> , 1998 , 101, 79-85	15.9	66
78	Increased acetyl group availability enhances contractile function of canine skeletal muscle during ischemia. <i>Journal of Clinical Investigation</i> , 1996 , 97, 879-83	15.9	66
77	The LIMD1 protein bridges an association between the prolyl hydroxylases and VHL to repress HIF-1 activity. <i>Nature Cell Biology</i> , 2012 , 14, 201-8	23.4	65
76	Short-term starvation and mitochondrial dysfunction - a possible mechanism leading to postoperative insulin resistance. <i>Clinical Nutrition</i> , 2009 , 28, 497-509	5.9	63
75	Inhibition of adipose tissue lipolysis increases intramuscular lipid and glycogen use in vivo in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 289, E482-93	6	60
74	Resistance to aerobic exercise training causes metabolic dysfunction and reveals novel exercise-regulated signaling networks. <i>Diabetes</i> , 2013 , 62, 2717-27	0.9	56
73	Elevated free fatty acids attenuate the insulin-induced suppression of PDK4 gene expression in human skeletal muscle: potential role of intramuscular long-chain acyl-coenzyme A. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2007 , 92, 3967-72	5.6	56

72	TLR2 stimulation regulates the balance between regulatory T cell and Th17 function: a novel mechanism of reduced regulatory T cell function in multiple sclerosis. <i>Journal of Immunology</i> , 2015 , 194, 5761-74	5.3	53
71	PPARdelta agonism induces a change in fuel metabolism and activation of an atrophy programme, but does not impair mitochondrial function in rat skeletal muscle. <i>Journal of Physiology</i> , 2007 , 583, 381-90 ⁹	3.9	51
70	Skeletal muscle carnitine loading increases energy expenditure, modulates fuel metabolism gene networks and prevents body fat accumulation in humans. <i>Journal of Physiology</i> , 2013 , 591, 4655-66	3.9	48
69	Tricarboxylic acid cycle intermediate pool size: functional importance for oxidative metabolism in exercising human skeletal muscle. <i>Sports Medicine</i> , 2007 , 37, 1071-88	10.6	46
68	Regulation of muscle pyruvate dehydrogenase complex in insulin resistance: effects of exercise and dichloroacetate. <i>Diabetes and Metabolism Journal</i> , 2013 , 37, 301-14	5	44
67	The role of FOXO and PPAR transcription factors in diet-mediated inhibition of PDC activation and carbohydrate oxidation during exercise in humans and the role of pharmacological activation of PDC in overriding these changes. <i>Diabetes</i> , 2012 , 61, 1017-24	0.9	44
66	Temporal changes in the involvement of pyruvate dehydrogenase complex in muscle lactate accumulation during lipopolysaccharide infusion in rats. <i>Journal of Physiology</i> , 2008 , 586, 1767-75	3.9	43
65	Increased uncoupling protein 3 content does not affect mitochondrial function in human skeletal muscle in vivo. <i>Journal of Clinical Investigation</i> , 2003 , 111, 479-86	15.9	40
64	Low intensity exercise in humans accelerates mitochondrial ATP production and pulmonary oxygen kinetics during subsequent more intense exercise. <i>Journal of Physiology</i> , 2002 , 538, 931-9	3.9	39
63	Cellular mechanisms underlying the protective effects of preoperative feeding: a randomized study investigating muscle and liver glycogen content, mitochondrial function, gene and protein expression. <i>Annals of Surgery</i> , 2010 , 252, 247-53	7.8	38
62	Carbohydrate ingestion augments L-carnitine retention in humans. <i>Journal of Applied Physiology</i> , 2007 , 102, 1065-70	3.7	38
61	An acetyl group deficit limits mitochondrial ATP production at the onset of exercise. <i>Biochemical Society Transactions</i> , 2002 , 30, 275-280	5.1	38
60	Low-dose dexamethasone prevents endotoxaemia-induced muscle protein loss and impairment of carbohydrate oxidation in rat skeletal muscle. <i>Journal of Physiology</i> , 2010 , 588, 1333-47	3.9	36
59	Testosterone therapy induces molecular programming augmenting physiological adaptations to resistance exercise in older men. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2019 , 10, 1276-1294	10.3	34
58	The effects of fasting and refeeding with a metabolic preconditioning drink on substrate reserves and mononuclear cell mitochondrial function. <i>Clinical Nutrition</i> , 2010 , 29, 538-44	5.9	32
57	Carnitine metabolism in human muscle fiber types during submaximal dynamic exercise. <i>Journal of Applied Physiology</i> , 1996 , 80, 1061-4	3.7	30
56	Statin myalgia is not associated with reduced muscle strength, mass or protein turnover in older male volunteers, but is allied with a slowing of time to peak power output, insulin resistance and differential muscle mRNA expression. <i>Journal of Physiology</i> , 2015 , 593, 1239-57	3.9	29
55	The impact of immobilisation and inflammation on the regulation of muscle mass and insulin resistance: different routes to similar end-points. <i>Journal of Physiology</i> , 2019 , 597, 1259-1270	3.9	28

54	Pharmacological activation of the pyruvate dehydrogenase complex reduces statin-mediated upregulation of FOXO gene targets and protects against statin myopathy in rodents. <i>Journal of Physiology</i> , 2012 , 590, 6389-402	3.9	28
53	Changing to a vegetarian diet reduces the body creatine pool in omnivorous women, but appears not to affect carnitine and carnosine homeostasis: a randomised trial. <i>British Journal of Nutrition</i> , 2018 , 119, 759-770	3.6	27
52	Continued 26S proteasome dysfunction in mouse brain cortical neurons impairs autophagy and the Keap1-Nrf2 oxidative defence pathway. <i>Cell Death and Disease</i> , 2017 , 8, e2531	9.8	26
51	The acetyl group deficit at the onset of contraction in ischaemic canine skeletal muscle. <i>Journal of Physiology</i> , 2002 , 544, 591-602	3.9	25
50	Phosphocreatine degradation in type I and type II muscle fibres during submaximal exercise in man: effect of carbohydrate ingestion. <i>Journal of Physiology</i> , 2001 , 537, 305-11	3.9	25
49	Glutamine supplementation promotes anaplerosis but not oxidative energy delivery in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001 , 280, E669-75	6	24
48	The importance of pyruvate availability to PDC activation and anaplerosis in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1999 , 276, E472-8	6	23
47	The integrin-adhesome is required to maintain muscle structure, mitochondrial ATP production, and movement forces in <i>Caenorhabditis elegans</i> . <i>FASEB Journal</i> , 2015 , 29, 1235-46	0.9	22
46	PPARdelta agonism inhibits skeletal muscle PDC activity, mitochondrial ATP production and force generation during prolonged contraction. <i>Journal of Physiology</i> , 2009 , 587, 231-9	3.9	22
45	Metabolic inertia in contracting skeletal muscle: a novel approach for pharmacological intervention in peripheral vascular disease. <i>British Journal of Clinical Pharmacology</i> , 2004 , 57, 237-43	3.8	22
44	Implications for oxidative stress and astrocytes following 26S proteasomal depletion in mouse forebrain neurones. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013 , 1832, 1930-8	6.9	21
43	Chronic treatment with the beta(2)-adrenoceptor agonist prodrug BRL-47672 impairs rat skeletal muscle function by inducing a comprehensive shift to a faster muscle phenotype. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006 , 319, 439-46	4.7	19
42	Muscle pyruvate availability can limit the flux, but not activation, of the pyruvate dehydrogenase complex during submaximal exercise in humans. <i>Journal of Physiology</i> , 2004 , 561, 647-55	3.9	19
41	Exercise with low muscle glycogen augments TCA cycle anaplerosis but impairs oxidative energy provision in humans. <i>Journal of Physiology</i> , 2002 , 540, 1079-86	3.9	19
40	Greater loss of mitochondrial function with ageing is associated with earlier onset of sarcopenia in. <i>Aging</i> , 2018 , 10, 3382-3396	5.6	18
39	Muscle carnitine availability plays a central role in regulating fuel metabolism in the rodent. <i>Journal of Physiology</i> , 2017 , 595, 5765-5780	3.9	17
38	Preoperative carbohydrate supplementation attenuates post-surgery insulin resistance via reduced inflammatory inhibition of the insulin-mediated restraint on muscle pyruvate dehydrogenase kinase 4 expression. <i>Clinical Nutrition</i> , 2015 , 34, 1177-83	5.9	17
37	A threshold exists for the stimulatory effect of insulin on plasma L-carnitine clearance in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007 , 292, E637-41	6	16

36	Gender and age differences in plasma carnitine, muscle strength, and exercise tolerance in haemodialysis patients. <i>Nephrology Dialysis Transplantation</i> , 2002 , 17, 1808-13	4.3	16
35	Free and esterified carnitine in continuous ambulatory peritoneal dialysis patients. <i>Kidney International</i> , 1996 , 49, 158-62	9.9	16
34	The effect of age and unilateral leg immobilization for 2 weeks on substrate utilization during moderate-intensity exercise in human skeletal muscle. <i>Journal of Physiology</i> , 2016 , 594, 2339-58	3.9	16
33	Do Antiretroviral Drugs Protect From Multiple Sclerosis by Inhibiting Expression of MS-Associated Retrovirus?. <i>Frontiers in Immunology</i> , 2018 , 9, 3092	8.4	14
32	Acetyl-CoA provision and the acetyl group deficit at the onset of contraction in ischemic canine skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 288, E327-34	6	14
31	Attenuation by creatine of myocardial metabolic stress in Brattleboro rats caused by chronic inhibition of nitric oxide synthase. <i>British Journal of Pharmacology</i> , 1995 , 116, 3288-92	8.6	14
30	Acetyl group availability influences phosphocreatine degradation even during intense muscle contraction. <i>Journal of Physiology</i> , 2004 , 561, 851-9	3.9	13
29	Peroxisome proliferator-activated receptor β agonism attenuates endotoxaemia-induced muscle protein loss and lactate accumulation in rats. <i>Clinical Science</i> , 2017 , 131, 1437-1447	6.5	11
28	Degenerin channel activation causes caspase-mediated protein degradation and mitochondrial dysfunction in adult <i>C. elegans</i> muscle. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2016 , 7, 181-92	10.3	10
27	Increasing cardiac pyruvate dehydrogenase flux during chronic hypoxia improves acute hypoxic tolerance. <i>Journal of Physiology</i> , 2018 , 596, 3357-3369	3.9	9
26	Inflammation-mediated muscle metabolic dysregulation local and remote to the site of major abdominal surgery. <i>Clinical Nutrition</i> , 2018 , 37, 2178-2185	5.9	9
25	Effects of endotoxaemia on protein metabolism in rat fast-twitch skeletal muscle and myocardium. <i>PLoS ONE</i> , 2009 , 4, e6945	3.7	9
24	Regulation of skeletal muscle carbohydrate oxidation during steady-state contraction. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1998 , 274, R1384-9	3.2	8
23	Perpetual muscle PDH activation in PDH kinase knockout mice protects against high-fat feeding-induced muscle insulin resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E824	11.5	7
22	Inorganic nitrate and nitrite supplementation fails to improve skeletal muscle mitochondrial efficiency in mice and humans. <i>American Journal of Clinical Nutrition</i> , 2020 , 111, 79-89	7	7
21	Longitudinal hypertrophic and transcriptional responses to high-load eccentric-concentric vs concentric training in males. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020 , 30, 2101-2115	4.6	6
20	Mitochondrial DNA copy number associates with insulin sensitivity and aerobic capacity, and differs between sedentary, overweight middle-aged males with and without type 2 diabetes. <i>International Journal of Obesity</i> , 2020 , 44, 929-936	5.5	6
19	Immunohistochemical expression of mitochondrial membrane complexes (MMCs) I, III, IV and V in malignant and benign periampullary epithelium: a potential target for drug therapy of periampullary cancer?. <i>BMC Cancer</i> , 2010 , 10, 80	4.8	5

18	Acute pantothenic acid and cysteine supplementation does not affect muscle coenzyme A content, fuel selection, or exercise performance in healthy humans. <i>Journal of Applied Physiology</i> , 2012 , 112, 272-87	3.7	4
17	Bicarbonate-induced alkalosis augments cellular acetyl group availability and isometric force during the rest-to-work transition in canine skeletal muscle. <i>Experimental Physiology</i> , 2002 , 87, 489-98	2.4	4
16	Molecular Mechanisms of Muscle Fatigue. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
15	The tricarboxylic acid cycle in human skeletal muscle: is there a role for nutritional intervention?. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 1999 , 2, 527-31	3.8	4
14	Spinal neuronal excitability and neuroinflammation in a model of chemotherapeutic neuropathic pain: targeting the resolution pathways. <i>Journal of Neuroinflammation</i> , 2020 , 17, 316	10.1	4
13	Dual effects of dichloroacetate on cardiac ischaemic preconditioning in the rat isolated perfused heart. <i>British Journal of Pharmacology</i> , 1998 , 124, 245-51	8.6	3
12	PPAR α and FOXO1 Mediate Palmitate-Induced Inhibition of Muscle Pyruvate Dehydrogenase Complex and CHO Oxidation, Events Reversed by Electrical Pulse Stimulation. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	3
11	Maximal-intensity exercise does not fully restore muscle pyruvate dehydrogenase complex activation after 3 days of high-fat dietary intake. <i>Clinical Nutrition</i> , 2019 , 38, 948-953	5.9	3
10	The Regulatory Roles of PPARs in Skeletal Muscle Fuel Metabolism and Inflammation: Impact of PPAR Agonism on Muscle in Chronic Disease, Contraction and Sepsis. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
9	Reduced fat oxidation during high intensity, submaximal exercise: is the availability of carnitine important?. <i>European Journal of Sport Science</i> , 2013 , 13, 191-199	3.9	2
8	No acetyl group deficit is evident at the onset of exercise at 90% of maximal oxygen uptake in humans. <i>Journal of Sports Sciences</i> , 2010 , 28, 267-79	3.6	2
7	The temporal relationship between glycogen phosphorylase and activation of the pyruvate dehydrogenase complex during adrenaline infusion in resting canine skeletal muscle. <i>Journal of Physiology</i> , 2002 , 545, 297-304	3.9	2
6	Skeletal muscle dysregulation in rheumatoid arthritis: Metabolic and molecular markers in a rodent model and patients. <i>PLoS ONE</i> , 2020 , 15, e0235702	3.7	1
5	Increasing muscle carnitine content alters muscle fuel metabolism and improves exercise performance in humans. <i>Japanese Journal of Physical Fitness and Sports Medicine</i> , 2011 , 60, 85-85	0.1	1
4	Teratogenic potential of free-radicals and hexokinase isoenzymes in the postimplantational "diabetic" rat conceptus. <i>Biochemical Society Transactions</i> , 1996 , 24, 235S	5.1	1
3	Major elective abdominal surgery acutely impairs lower limb muscle pyruvate dehydrogenase complex activity and mitochondrial function. <i>Clinical Nutrition</i> , 2021 , 40, 1046-1051	5.9	0
2	Lipopolysaccharide-induced transcriptional upregulation of interleukin-6 and tumor necrosis factor- α precedes muscle specific expression of the ubiquitin ligases, MAFbx and MuRF1 in the rat extensor digitorum longus muscle. <i>FASEB Journal</i> , 2006 , 20, A390	0.9	
1	Does carnitine supplementation truly increase whole-body fat oxidation in older male adults during moderate-intensity exercise?. <i>Aging Cell</i> , 2021 , 20, e13449	9.9	

