Dumitru Constantin-Teodosiu

List of Publications by Year in Descending Order

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	Molecular Mechanisms of Muscle Fatigue. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	4
88	Major elective abdominal surgery acutely impairs lower limb muscle pyruvate dehydrogenase complex activity and mitochondrial function. *Clinical Nutrition*, **2021**, 40, 1046-1051	5.9	0
87	Does carnitine supplementation truly increase whole-body fat oxidation in older male adults during moderate-intensity exercise?. *Aging Cell*, **2021**, 20, e13449	9.9	
86	The Regulatory Roles of PPARs in Skeletal Muscle Fuel Metabolism and Inflammation: Impact of PPAR Agonism on Muscle in Chronic Disease, Contraction and Sepsis. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
85	Skeletal muscle dysregulation in rheumatoid arthritis: Metabolic and molecular markers in a rodent model and patients. *PLoS ONE*, **2020**, 15, e0235702	3.7	1
84	Longitudinal hypertrophic and transcriptional responses to high-load eccentric-concentric vs concentric training in males. *Scandinavian Journal of Medicine and Science in Sports*, **2020**, 30, 2101-2115	4.6	6
83	Spinal neuronal excitability and neuroinflammation in a model of chemotherapeutic neuropathic pain: targeting the resolution pathways. *Journal of Neuroinflammation*, **2020**, 17, 316	10.1	4
82	PPAR□and FOXO1 Mediate Palmitate-Induced Inhibition of Muscle Pyruvate Dehydrogenase Complex and CHO Oxidation, Events Reversed by Electrical Pulse Stimulation. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	3
81	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. *International Journal of Obesity*, **2020**, 44, 929-936	5.5	6
80	Inorganic nitrate and nitrite supplementation fails to improve skeletal muscle mitochondrial efficiency in mice and humans. *American Journal of Clinical Nutrition*, **2020**, 111, 79-89	7	7
79	The impact of immobilisation and inflammation on the regulation of muscle mass and insulin resistance: different routes to similar end-points. *Journal of Physiology*, **2019**, 597, 1259-1270	3.9	28
78	Testosterone therapy induces molecular programming augmenting physiological adaptations to resistance exercise in older men. *Journal of Cachexia, Sarcopenia and Muscle*, **2019**, 10, 1276-1294	10.3	34
77	Maximal-intensity exercise does not fully restore muscle pyruvate dehydrogenase complex activation after 3 days of high-fat dietary intake. *Clinical Nutrition*, **2019**, 38, 948-953	5.9	3
76	Do Antiretroviral Drugs Protect From Multiple Sclerosis by Inhibiting Expression of MS-Associated Retrovirus?. *Frontiers in Immunology*, **2018**, 9, 3092	8.4	14
75	Increasing cardiac pyruvate dehydrogenase flux during chronic hypoxia improves acute hypoxic tolerance. *Journal of Physiology*, **2018**, 596, 3357-3369	3.9	9
74	Inflammation-mediated muscle metabolic dysregulation local and remote to the site of major abdominal surgery. *Clinical Nutrition*, **2018**, 37, 2178-2185	5.9	9
73	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. *British Journal of Nutrition*, **2018**, 119, 759-770	3.6	27

72	Greater loss of mitochondrial function with ageing is associated with earlier onset of sarcopenia in. *Aging*, **2018**, 10, 3382-3396	5.6	18
71	Peroxisome proliferator-activated receptor agonism attenuates endotoxaemia-induced muscle protein loss and lactate accumulation in rats. *Clinical Science*, **2017**, 131, 1437-1447	6.5	11
70	Muscle carnitine availability plays a central role in regulating fuel metabolism in the rodent. *Journal of Physiology*, **2017**, 595, 5765-5780	3.9	17
69	Continued 26S proteasome dysfunction in mouse brain cortical neurons impairs autophagy and the Keap1-Nrf2 oxidative defence pathway. *Cell Death and Disease*, **2017**, 8, e2531	9.8	26
68	The effect of age and unilateral leg immobilization for 2 weeks on substrate utilization during moderate-intensity exercise in human skeletal muscle. *Journal of Physiology*, **2016**, 594, 2339-58	3.9	16
67	Degenerin channel activation causes caspase-mediated protein degradation and mitochondrial dysfunction in adult C. elegans muscle. *Journal of Cachexia, Sarcopenia and Muscle*, **2016**, 7, 181-92	10.3	10
66	Perpetual muscle PDH activation in PDH kinase knockout mice protects against high-fat feeding-induced muscle insulin resistance. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E824	11.5	7
65	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. *Journal of Physiology*, **2015**, 593, 1239-57	3.9	29
64	Preoperative carbohydrate supplementation attenuates post-surgery insulin resistance via reduced inflammatory inhibition of the insulin-mediated restraint on muscle pyruvate dehydrogenase kinase 4 expression. *Clinical Nutrition*, **2015**, 34, 1177-83	5.9	17
63	The integrin-adhesome is required to maintain muscle structure, mitochondrial ATP production, and movement forces in Caenorhabditis elegans. *FASEB Journal*, **2015**, 29, 1235-46	0.9	22
62	TLR2 stimulation regulates the balance between regulatory T cell and Th17 function: a novel mechanism of reduced regulatory T cell function in multiple sclerosis. *Journal of Immunology*, **2015**, 194, 5761-74	5.3	53
61	Resistance to aerobic exercise training causes metabolic dysfunction and reveals novel exercise-regulated signaling networks. *Diabetes*, **2013**, 62, 2717-27	0.9	56
60	Reduced fat oxidation during high intensity, submaximal exercise: is the availability of carnitine important?. *European Journal of Sport Science*, **2013**, 13, 191-199	3.9	2
59	Implications for oxidative stress and astrocytes following 26S proteasomal depletion in mouse forebrain neurones. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2013**, 1832, 1930-8	6.9	21
58	Skeletal muscle carnitine loading increases energy expenditure, modulates fuel metabolism gene networks and prevents body fat accumulation in humans. *Journal of Physiology*, **2013**, 591, 4655-66	3.9	48
57	Regulation of muscle pyruvate dehydrogenase complex in insulin resistance: effects of exercise and dichloroacetate. *Diabetes and Metabolism Journal*, **2013**, 37, 301-14	5	44
56	Pharmacological activation of the pyruvate dehydrogenase complex reduces statin-mediated upregulation of FOXO gene targets and protects against statin myopathy in rodents. *Journal of Physiology*, **2012**, 590, 6389-402	3.9	28
55	The LIMD1 protein bridges an association between the prolyl hydroxylases and VHL to repress HIF-1 activity. *Nature Cell Biology*, **2012**, 14, 201-8	23.4	65

54	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. *Diabetes*, **2012**, 61, 1017-24	0.9	44
53	Acute pantothenic acid and cysteine supplementation does not affect muscle coenzyme A content, fuel selection, or exercise performance in healthy humans. *Journal of Applied Physiology*, **2012**, 112, 272-8	3.7	4
52	Increasing muscle carnitine content alters muscle fuel metabolism and improves exercise performance in humans. *Japanese Journal of Physical Fitness and Sports Medicine*, **2011**, 60, 85-85	0.1	1
51	Chronic oral ingestion of L-carnitine and carbohydrate increases muscle carnitine content and alters muscle fuel metabolism during exercise in humans. *Journal of Physiology*, **2011**, 589, 963-73	3.9	121
50	Low-dose dexamethasone prevents endotoxaemia-induced muscle protein loss and impairment of carbohydrate oxidation in rat skeletal muscle. *Journal of Physiology*, **2010**, 588, 1333-47	3.9	36
49	Regulation of human metabolism by hypoxia-inducible factor. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 12722-7	11.5	122
48	No acetyl group deficit is evident at the onset of exercise at 90% of maximal oxygen uptake in humans. *Journal of Sports Sciences*, **2010**, 28, 267-79	3.6	2
47	Cellular mechanisms underlying the protective effects of preoperative feeding: a randomized study investigating muscle and liver glycogen content, mitochondrial function, gene and protein expression. *Annals of Surgery*, **2010**, 252, 247-53	7.8	38
46	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?. *BMC Cancer*, **2010**, 10, 80	4.8	5
45	The effects of fasting and refeeding with a Smetabolic preconditioningSdrink on substrate reserves and mononuclear cell mitochondrial function. *Clinical Nutrition*, **2010**, 29, 538-44	5.9	32
44	Effects of endotoxaemia on protein metabolism in rat fast-twitch skeletal muscle and myocardium. *PLoS ONE*, **2009**, 4, e6945	3.7	9
43	Short-term starvation and mitochondrial dysfunction - a possible mechanism leading to postoperative insulin resistance. *Clinical Nutrition*, **2009**, 28, 497-509	5.9	63
42	PPARdelta agonism inhibits skeletal muscle PDC activity, mitochondrial ATP production and force generation during prolonged contraction. *Journal of Physiology*, **2009**, 587, 231-9	3.9	22
41	Blunted Akt/FOXO signalling and activation of genes controlling atrophy and fuel use in statin myopathy. *Journal of Physiology*, **2009**, 587, 219-30	3.9	86
40	Systematic analysis of adaptations in aerobic capacity and submaximal energy metabolism provides a unique insight into determinants of human aerobic performance. *Journal of Applied Physiology*, **2009**, 106, 1479-86	3.7	129
39	Temporal changes in the involvement of pyruvate dehydrogenase complex in muscle lactate accumulation during lipopolysaccharide infusion in rats. *Journal of Physiology*, **2008**, 586, 1767-75	3.9	43
38	A potential role for Akt/FOXO signalling in both protein loss and the impairment of muscle carbohydrate oxidation during sepsis in rodent skeletal muscle. *Journal of Physiology*, **2008**, 586, 5589-600	3.9	127
37	Carbohydrate ingestion augments L-carnitine retention in humans. *Journal of Applied Physiology*, **2007**, 102, 1065-70	3.7	38

36	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. *Journal of Clinical Endocrinology and Metabolism*, **2007**, 92, 3967-72	5.6	56
35	New insights concerning the role of carnitine in the regulation of fuel metabolism in skeletal muscle. *Journal of Physiology*, **2007**, 581, 431-44	3.9	249
34	PPARdelta agonism induces a change in fuel metabolism and activation of an atrophy programme, but does not impair mitochondrial function in rat skeletal muscle. *Journal of Physiology*, **2007**, 583, 381-90	3.9	51
33	A threshold exists for the stimulatory effect of insulin on plasma L-carnitine clearance in humans. *American Journal of Physiology - Endocrinology and Metabolism*, **2007**, 292, E637-41	6	16
32	Tricarboxylic acid cycle intermediate pool size: functional importance for oxidative metabolism in exercising human skeletal muscle. *Sports Medicine*, **2007**, 37, 1071-88	10.6	46
31	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. *Journal of Pharmacology and Experimental Therapeutics*, **2006**, 319, 439-46	4.7	19
30	Insulin stimulates L-carnitine accumulation in human skeletal muscle. *FASEB Journal*, **2006**, 20, 377-9	0.9	72
29	An acute increase in skeletal muscle carnitine content alters fuel metabolism in resting human skeletal muscle. *Journal of Clinical Endocrinology and Metabolism*, **2006**, 91, 5013-8	5.6	69
28	Lipopolysaccharide-induced transcriptional upregulation of interleukin-6 and tumor necrosis factor-precedes muscle specific expression of the ubiquitin ligases, MAFbx and MuRF1 in the rat extensor digitorum longus muscle. *FASEB Journal*, **2006**, 20, A390	0.9	
27	Acetyl-CoA provision and the acetyl group deficit at the onset of contraction in ischemic canine skeletal muscle. *American Journal of Physiology - Endocrinology and Metabolism*, **2005**, 288, E327-34	6	14
26	Inhibition of adipose tissue lipolysis increases intramuscular lipid and glycogen use in vivo in humans. *American Journal of Physiology - Endocrinology and Metabolism*, **2005**, 289, E482-93	6	60
25	Acetyl group availability influences phosphocreatine degradation even during intense muscle contraction. *Journal of Physiology*, **2004**, 561, 851-9	3.9	13
24	Muscle pyruvate availability can limit the flux, but not activation, of the pyruvate dehydrogenase complex during submaximal exercise in humans. *Journal of Physiology*, **2004**, 561, 647-55	3.9	19
23	Metabolic inertia in contracting skeletal muscle: a novel approach for pharmacological intervention in peripheral vascular disease. *British Journal of Clinical Pharmacology*, **2004**, 57, 237-43	3.8	22
22	Increased uncoupling protein 3 content does not affect mitochondrial function in human skeletal muscle in vivo. *Journal of Clinical Investigation*, **2003**, 111, 479-86	15.9	40
21	Exercise with low muscle glycogen augments TCA cycle anaplerosis but impairs oxidative energy provision in humans. *Journal of Physiology*, **2002**, 540, 1079-86	3.9	19
20	Oxygen uptake on-kinetics in dog gastrocnemius in situ following activation of pyruvate dehydrogenase by dichloroacetate. *Journal of Physiology*, **2002**, 538, 195-207	3.9	99
19	Low intensity exercise in humans accelerates mitochondrial ATP production and pulmonary oxygen kinetics during subsequent more intense exercise. *Journal of Physiology*, **2002**, 538, 931-9	3.9	39

18	The temporal relationship between glycogen phosphorylase and activation of the pyruvate dehydrogenase complex during adrenaline infusion in resting canine skeletal muscle. *Journal of Physiology*, **2002**, 545, 297-304	3.9	2
17	The acetyl group deficit at the onset of contraction in ischaemic canine skeletal muscle. *Journal of Physiology*, **2002**, 544, 591-602	3.9	25
16	Bicarbonate-induced alkalosis augments cellular acetyl group availability and isometric force during the rest-to-work transition in canine skeletal muscle. *Experimental Physiology*, **2002**, 87, 489-98	2.4	4
15	An acetyl group deficit limits mitochondrial ATP production at the onset of exercise. *Biochemical Society Transactions*, **2002**, 30, 275-280	5.1	38
14	Gender and age differences in plasma carnitine, muscle strength, and exercise tolerance in haemodialysis patients. *Nephrology Dialysis Transplantation*, **2002**, 17, 1808-13	4.3	16
13	The effects of increasing exercise intensity on muscle fuel utilisation in humans. *Journal of Physiology*, **2001**, 536, 295-304	3.9	517
12	Phosphocreatine degradation in type I and type II muscle fibres during submaximal exercise in man: effect of carbohydrate ingestion. *Journal of Physiology*, **2001**, 537, 305-11	3.9	25
11	Glutamine supplementation promotes anaplerosis but not oxidative energy delivery in human skeletal muscle. *American Journal of Physiology - Endocrinology and Metabolism*, **2001**, 280, E669-75	6	24
10	The importance of pyruvate availability to PDC activation and anaplerosis in human skeletal muscle. *American Journal of Physiology - Endocrinology and Metabolism*, **1999**, 276, E472-8	6	23
9	The tricarboxylic acid cycle in human skeletal muscle: is there a role for nutritional intervention?. *Current Opinion in Clinical Nutrition and Metabolic Care*, **1999**, 2, 527-31	3.8	4
8	Dual effects of dichloroacetate on cardiac ischaemic preconditioning in the rat isolated perfused heart. *British Journal of Pharmacology*, **1998**, 124, 245-51	8.6	3
7	Regulation of skeletal muscle carbohydrate oxidation during steady-state contraction. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **1998**, 274, R1384-9	3.2	8
6	Substrate availability limits human skeletal muscle oxidative ATP regeneration at the onset of ischemic exercise. *Journal of Clinical Investigation*, **1998**, 101, 79-85	15.9	66
5	Carnitine metabolism in human muscle fiber types during submaximal dynamic exercise. *Journal of Applied Physiology*, **1996**, 80, 1061-4	3.7	30
4	Teratogenic potential of free-radicals and hexokinase isoenzymes in the postimplantational "diabetic" rat conceptus. *Biochemical Society Transactions*, **1996**, 24, 235S	5.1	1
3	Free and esterified carnitine in continuous ambulatory peritoneal dialysis patients. *Kidney International*, **1996**, 49, 158-62	9.9	16
2	Increased acetyl group availability enhances contractile function of canine skeletal muscle during ischemia. *Journal of Clinical Investigation*, **1996**, 97, 879-83	15.9	66
1	Attenuation by creatine of myocardial metabolic stress in Brattleboro rats caused by chronic inhibition of nitric oxide synthase. *British Journal of Pharmacology*, **1995**, 116, 3288-92	8.6	14