

# Dominique P Dardevet

## List of Publications by Citations

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104  
papers

3,513  
citations

34  
h-index

56  
g-index

110  
ext. papers

3,967  
ext. citations

5.2  
avg, IF

4.75  
L-index

#	Paper	IF	Citations
104	Leucine supplementation improves muscle protein synthesis in elderly men independently of hyperaminoacidaemia. <i>Journal of Physiology</i> , <b>2006</b> , 575, 305-15	3.9	271
103	Stimulation of in vitro rat muscle protein synthesis by leucine decreases with age. <i>Journal of Nutrition</i> , <b>2000</b> , 130, 2630-5	4.1	178
102	Reduction of low grade inflammation restores blunting of postprandial muscle anabolism and limits sarcopenia in old rats. <i>Journal of Physiology</i> , <b>2009</b> , 587, 5483-92	3.9	146
101	Postprandial stimulation of muscle protein synthesis in old rats can be restored by a leucine-supplemented meal. <i>Journal of Nutrition</i> , <b>2002</b> , 132, 95-100	4.1	143
100	A leucine-supplemented diet restores the defective postprandial inhibition of proteasome-dependent proteolysis in aged rat skeletal muscle. <i>Journal of Physiology</i> , <b>2005</b> , 569, 489-99	3.9	108
99	Skeletal muscle proteolysis in aging. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2009</b> , 12, 37-41	3.8	104
98	Muscle wasting and resistance of muscle anabolism: the "anabolic threshold concept" for adapted nutritional strategies during sarcopenia. <i>Scientific World Journal, The</i> , <b>2012</b> , 2012, 269531	2.2	99
97	Role of physical bolus properties as sensory inputs in the trigger of swallowing. <i>PLoS ONE</i> , <b>2011</b> , 6, e21167	3.7	98
96	Dairy products and inflammation: A review of the clinical evidence. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2017</b> , 57, 2497-2525	11.5	91
95	Altered responses in skeletal muscle protein turnover during aging in anabolic and catabolic periods. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2005</b> , 37, 1962-73	5.6	91
94	Antioxidant supplementation restores defective leucine stimulation of protein synthesis in skeletal muscle from old rats. <i>Journal of Nutrition</i> , <b>2008</b> , 138, 2205-11	4.1	87
93	Leucine-supplemented meal feeding for ten days beneficially affects postprandial muscle protein synthesis in old rats. <i>Journal of Nutrition</i> , <b>2003</b> , 133, 1198-205	4.1	87
92	Increased availability of leucine with leucine-rich whey proteins improves postprandial muscle protein synthesis in aging rats. <i>Nutrition</i> , <b>2007</b> , 23, 323-31	4.8	85
91	Effects of meat cooking, and of ingested amount, on protein digestion speed and entry of residual proteins into the colon: a study in minipigs. <i>PLoS ONE</i> , <b>2013</b> , 8, e61252	3.7	79
90	Amino acids and insulin are both required to regulate assembly of the eIF4E. eIF4G complex in rat skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2001</b> , 281, E565-74	6	72
89	Presence of low-grade inflammation impaired postprandial stimulation of muscle protein synthesis in old rats. <i>Journal of Nutritional Biochemistry</i> , <b>2010</b> , 21, 325-31	6.3	66
88	Myostatin gene inactivation prevents skeletal muscle wasting in cancer. <i>Cancer Research</i> , <b>2014</b> , 74, 7344-51	15.1	65

87	Effect of glucocorticoid excess on skeletal muscle and heart protein synthesis in adult and old rats. <i>British Journal of Nutrition</i> , <b>1998</b> , 79, 297-304	3.6	60
86	Long-term effects of leucine supplementation on body composition. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2010</b> , 13, 265-70	3.8	59
85	The ubiquitin-proteasome and the mitochondria-associated apoptotic pathways are sequentially downregulated during recovery after immobilization-induced muscle atrophy. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2008</b> , 295, E1181-90	6	58
84	Glucocorticoids regulate mRNA levels for subunits of the 19 S regulatory complex of the 26 S proteasome in fast-twitch skeletal muscles. <i>Biochemical Journal</i> , <b>2004</b> , 378, 239-46	3.8	57
83	Differential effect of long-term leucine supplementation on skeletal muscle and adipose tissue in old rats: an insulin signaling pathway approach. <i>Age</i> , <b>2012</b> , 34, 371-87		54
82	Pulse protein feeding pattern restores stimulation of muscle protein synthesis during the feeding period in old rats. <i>Journal of Nutrition</i> , <b>2002</b> , 132, 1002-8	4.1	50
81	Contrarily to whey and high protein diets, dietary free leucine supplementation cannot reverse the lack of recovery of muscle mass after prolonged immobilization during ageing. <i>Journal of Physiology</i> , <b>2012</b> , 590, 2035-49	3.9	49
80	Nutritional strategies to counteract muscle atrophy caused by disuse and to improve recovery. <i>Nutrition Research Reviews</i> , <b>2013</b> , 26, 149-65	7	49
79	Role of the hepatic sympathetic nerves in the regulation of net hepatic glucose uptake and the mediation of the portal glucose signal. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2006</b> , 290, E9-E16	6	47
78	The Transplantation of B PUFA-Altered Gut Microbiota of fat-1 Mice to Wild-Type Littermates Prevents Obesity and Associated Metabolic Disorders. <i>Diabetes</i> , <b>2018</b> , 67, 1512-1523	0.9	45
77	Insulin and amino acids both strongly participate to the regulation of protein metabolism. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2004</b> , 7, 71-7	3.8	43
76	Intestinal inflammation increases gastrointestinal threonine uptake and mucin synthesis in enterally fed minipigs. <i>Journal of Nutrition</i> , <b>2009</b> , 139, 720-6	4.1	42
75	Mitochondrial and sarcoplasmic proteins, but not myosin heavy chain, are sensitive to leucine supplementation in old rat skeletal muscle. <i>Experimental Gerontology</i> , <b>2004</b> , 39, 745-51	4.5	42
74	Leucine supplementation in rats induced a delay in muscle IR/PI3K signaling pathway associated with overall impaired glucose tolerance. <i>Journal of Nutritional Biochemistry</i> , <b>2011</b> , 22, 219-26	6.3	41
73	Insulin secretion-independent effects of GLP-1 on canine liver glucose metabolism do not involve portal vein GLP-1 receptors. <i>American Journal of Physiology - Renal Physiology</i> , <b>2005</b> , 289, G806-14	5.1	40
72	Effects of high-intensity interval training and moderate-intensity continuous training on glycaemic control and skeletal muscle mitochondrial function in db/db mice. <i>Scientific Reports</i> , <b>2017</b> , 7, 204	4.9	35
71	Resistant starch intake partly restores metabolic and inflammatory alterations in the liver of high-fat-diet-fed rats. <i>Journal of Nutritional Biochemistry</i> , <b>2013</b> , 24, 1920-30	6.3	35
70	Curcumin treatment prevents increased proteasome and apoptosome activities in rat skeletal muscle during reloading and improves subsequent recovery. <i>Journal of Nutritional Biochemistry</i> , <b>2012</b> , 23, 245-51	6.3	34

69	Nutrient regulation of skeletal muscle protein metabolism in animals. The involvement of hormones and substrates. <i>Nutrition Research Reviews</i> , <b>1995</b> , 8, 67-91	7	34
68	Lack of muscle recovery after immobilization in old rats does not result from a defect in normalization of the ubiquitin-proteasome and the caspase-dependent apoptotic pathways. <i>Journal of Physiology</i> , <b>2011</b> , 589, 511-24	3.9	33
67	Glucocorticoid excess induces a prolonged leucine resistance on muscle protein synthesis in old rats. <i>Experimental Gerontology</i> , <b>2004</b> , 39, 1315-21	4.5	33
66	Effects of leucine supplementation and resistance exercise on dexamethasone-induced muscle atrophy and insulin resistance in rats. <i>Nutrition</i> , <b>2012</b> , 28, 465-71	4.8	32
65	Differential regulation of skeletal muscle protein turnover by insulin and IGF-I after bacteremia. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>1998</b> , 275, E584-93	6	32
64	Acute phase protein levels and thymus, spleen and plasma protein synthesis rates differ in adult and old rats. <i>Journal of Nutrition</i> , <b>2003</b> , 133, 215-9	4.1	30
63	The worsening of tibialis anterior muscle atrophy during recovery post-immobilization correlates with enhanced connective tissue area, proteolysis, and apoptosis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2012</b> , 303, E1335-47	6	25
62	Dietary proteins and amino acids in the control of the muscle mass during immobilization and aging: role of the MPS response. <i>Amino Acids</i> , <b>2017</b> , 49, 811-820	3.5	23
61	Antioxidant supplementation had positive effects in old rat muscle, but through better oxidative status in other organs. <i>Nutrition</i> , <b>2010</b> , 26, 1157-62	4.8	23
60	Whey proteins are more efficient than casein in the recovery of muscle functional properties following a casting induced muscle atrophy. <i>PLoS ONE</i> , <b>2013</b> , 8, e75408	3.7	22
59	Chronic Intake of Sucrose Accelerates Sarcopenia in Older Male Rats through Alterations in Insulin Sensitivity and Muscle Protein Synthesis. <i>Journal of Nutrition</i> , <b>2015</b> , 145, 923-30	4.1	20
58	Protein feeding pattern, casein feeding, or milk-soluble protein feeding did not change the evolution of body composition during a short-term weight loss program. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2012</b> , 303, E973-82	6	19
57	Leucine: a key amino acid in ageing-associated sarcopenia?. <i>Nutrition Research Reviews</i> , <b>2003</b> , 16, 61-70	7	19
56	Insulin action on skeletal muscle protein metabolism during catabolic states. <i>Reproduction, Nutrition, Development</i> , <b>1999</b> , 39, 61-74		19
55	Therapeutic paracetamol treatment in older persons induces dietary and metabolic modifications related to sulfur amino acids. <i>Age</i> , <b>2012</b> , 34, 181-93		18
54	Time Course of Molecular and Metabolic Events in the Development of Insulin Resistance in Fructose-Fed Rats. <i>Journal of Proteome Research</i> , <b>2016</b> , 15, 1862-74	5.6	18
53	Portal infusion of a selective serotonin reuptake inhibitor enhances hepatic glucose disposal in conscious dogs. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2004</b> , 287, E1057-63	6	17
52	High whey protein intake delayed the loss of lean body mass in healthy old rats, whereas protein type and polyphenol/antioxidant supplementation had no effects. <i>PLoS ONE</i> , <b>2014</b> , 9, e109098	3.7	17

51	Excessive energy intake does not modify fed-state tissue protein synthesis rates in adult rats. <i>Obesity</i> , <b>2009</b> , 17, 1348-55	8	15
50	Effects of the nitric oxide donor SIN-1 on net hepatic glucose uptake in the conscious dog. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2008</b> , 294, E300-6	6	14
49	A dietary supplementation with leucine and antioxidants is capable to accelerate muscle mass recovery after immobilization in adult rats. <i>PLoS ONE</i> , <b>2013</b> , 8, e81495	3.7	14
48	A meal with mixed soy/whey proteins is as efficient as a whey meal in counteracting the age-related muscle anabolic resistance only if the protein content and leucine levels are increased. <i>Food and Function</i> , <b>2018</b> , 9, 6526-6534	6.1	14
47	Cysteine fluxes across the portal-drained viscera of enterally fed minipigs: effect of an acute intestinal inflammation. <i>Amino Acids</i> , <b>2011</b> , 40, 543-52	3.5	13
46	Modulation of skeletal muscle lactate metabolism following bacteremia by insulin or insulin-like growth factor-I: effects of pentoxifylline. <i>Shock</i> , <b>1997</b> , 7, 432-8	3.4	13
45	Efficacy of non-pharmacological interventions to treat malnutrition in older persons: A systematic review and meta-analysis. The SENATOR project ONTOP series and MaNuEL knowledge hub project. <i>Ageing Research Reviews</i> , <b>2019</b> , 49, 27-48	12	13
44	Impaired Skeletal Muscle Branched-Chain Amino Acids Catabolism Contributes to Their Increased Circulating Levels in a Non-Obese Insulin-Resistant Fructose-Fed Rat Model. <i>Nutrients</i> , <b>2019</b> , 11,	6.7	12
43	In the elderly, meat protein assimilation from rare meat is lower than that from meat that is well done. <i>American Journal of Clinical Nutrition</i> , <b>2017</b> , 106, 1257-1266	7	12
42	Metabolic adaptations to HFHS overfeeding: how whole body and tissues postprandial metabolic flexibility adapt in Yucatan mini-pigs. <i>European Journal of Nutrition</i> , <b>2018</b> , 57, 119-135	5.2	11
41	Interaction of a selective serotonin reuptake inhibitor with insulin in the control of hepatic glucose uptake in conscious dogs. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2005</b> , 288, E556-63	6	11
40	Diazoxide-induced insulin deficiency greatly reduced muscle protein synthesis in rats: involvement of eIF4E. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>1999</b> , 276, E50-61	6	11
39	Time-course changes in circulating branched-chain amino acid levels and metabolism in obese Yucatan minipig. <i>Nutrition</i> , <b>2018</b> , 50, 66-73	4.8	11
38	Glucagon's effect on liver protein metabolism in vivo. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2017</b> , 313, E263-E272	6	10
37	4E-BP1 and 4E-BP2 double knockout mice are protected from aging-associated sarcopenia. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , <b>2019</b> , 10, 696-709	10.3	10
36	The delayed recovery of the remobilized rat tibialis anterior muscle reflects a defect in proliferative and terminal differentiation that impairs early regenerative processes. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , <b>2015</b> , 6, 73-83	10.3	10
35	Slight chronic elevation of C-reactive protein is associated with lower aerobic fitness but does not impair meal-induced stimulation of muscle protein metabolism in healthy old men. <i>Journal of Physiology</i> , <b>2015</b> , 593, 1259-72	3.9	10
34	Portal infusion of amino acids is more efficient than peripheral infusion in stimulating liver protein synthesis at the same hepatic amino acid load in dogs. <i>American Journal of Clinical Nutrition</i> , <b>2008</b> , 88, 986-96	7	10

33	Postprandial leucine deficiency failed to alter muscle protein synthesis in growing and adult rats. <i>Nutrition</i> , <b>2007</b> , 23, 267-76	4.8	10
32	Evidence for an alteration of plasma and liver proteins response to dexamethasone in aging rats. <i>Mechanisms of Ageing and Development</i> , <b>2001</b> , 122, 105-20	5.6	10
31	Similarities and interactions between the ageing process and high chronic intake of added sugars. <i>Nutrition Research Reviews</i> , <b>2017</b> , 30, 191-207	7	9
30	Assessment of protein modifications in liver of rats under chronic treatment with paracetamol (acetaminophen) using two complementary mass spectrometry-based metabolomic approaches. <i>Journal of Proteomics</i> , <b>2015</b> , 120, 194-203	3.9	9
29	Unilateral hindlimb casting induced a delayed generalized muscle atrophy during rehabilitation that is prevented by a whey or a high protein diet but not a free leucine-enriched diet. <i>PLoS ONE</i> , <b>2013</b> , 8, e70130	3.7	8
28	Arterio-venous metabolomics exploration reveals major changes across liver and intestine in the obese Yucatan minipig. <i>Scientific Reports</i> , <b>2019</b> , 9, 12527	4.9	7
27	Commentaries on Viewpoint: Muscle atrophy is not always sarcopenia. <i>Journal of Applied Physiology</i> , <b>2012</b> , 113, 680-4	3.7	7
26	Dietary protein regulates hepatic constitutive protein anabolism in rats in a dose-dependent manner and independently of energy nutrient composition. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2010</b> , 299, R1720-30	3.2	7
25	A mix of dietary fermentable fibers improves lipids handling by the liver of overfed minipigs. <i>Journal of Nutritional Biochemistry</i> , <b>2019</b> , 65, 72-82	6.3	7
24	Peripheral Blood Mononuclear Cell Metabolism Acutely Adapted to Postprandial Transition and Mainly Reflected Metabolic Adipose Tissue Adaptations to a High-Fat Diet in Minipigs. <i>Nutrients</i> , <b>2018</b> , 10,	6.7	7
23	Reactive oxygen species enhance mitochondrial function, insulin sensitivity and glucose uptake in skeletal muscle of senescence accelerated prone mice SAMP8. <i>Free Radical Biology and Medicine</i> , <b>2017</b> , 113, 267-279	7.8	6
22	Postprandial metabolic events in mini-pigs: new insights from a combined approach using plasma metabolomics, tissue gene expression, and enzyme activity. <i>Metabolomics</i> , <b>2015</b> , 11, 964-979	4.7	6
21	Metabolomics Reveals that the Type of Protein in a High-Fat Meal Modulates Postprandial Mitochondrial Overload and Incomplete Substrate Oxidation in Healthy Overweight Men. <i>Journal of Nutrition</i> , <b>2018</b> , 148, 876-884	4.1	6
20	At same leucine intake, a whey/plant protein blend is not as effective as whey to initiate a transient post prandial muscle anabolic response during a catabolic state in mini pigs. <i>PLoS ONE</i> , <b>2017</b> , 12, e0186204	2.7	6
19	The nature of the ingested protein has no effect on lean body mass during energy restriction in overweight rats. <i>Obesity</i> , <b>2011</b> , 19, 1137-44	8	5
18	The effect of vagal cooling on canine hepatic glucose metabolism in the presence of hyperglycemia of peripheral origin. <i>Metabolism: Clinical and Experimental</i> , <b>2007</b> , 56, 814-24	12.7	5
17	Soluble Milk Proteins Improve Muscle Mass Recovery after Immobilization-Induced Muscle Atrophy in Old Rats but Do not Improve Muscle Functional Property Restoration. <i>Journal of Nutrition, Health and Aging</i> , <b>2017</b> , 21, 1133-1141	5.2	4
16	Effects of nutritional state, aging and high chronic intake of sucrose on brain protein synthesis in rats: modulation of it by rutin and other micronutrients. <i>Food and Function</i> , <b>2018</b> , 9, 2922-2930	6.1	4



15	Impact of medication on protein and amino acid metabolism in the elderly: the sulfur amino acid and paracetamol case. <i>Nutrition Research Reviews</i> , <b>2018</b> , 31, 179-192	7	4
14	Important determinants to take into account to optimize protein nutrition in the elderly: solutions to a complex equation. <i>Proceedings of the Nutrition Society</i> , <b>2021</b> , 80, 207-220	2.9	4
13	Sulfur Amino Acids and Skeletal Muscle <b>2019</b> , 335-363		4
12	Portal glucose delivery stimulates muscle but not liver protein metabolism. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2012</b> , 303, E1202-11	6	3
11	Effect of high chronic intake of sucrose on liver metabolism in aging rats. Modulation by rutin and micronutrients. <i>Journal of Physiology and Biochemistry</i> , <b>2018</b> , 74, 569-577	5	2
10	Fructose Feeding during the Postabsorptive State Alters Body Composition and Spares Nitrogen in Protein-Energy-Restricted Old Rats. <i>Journal of Nutrition</i> , <b>2018</b> , 148, 40-48	4.1	2
9	Spreading intake of a leucine-rich fast protein in energy-restricted overweight rats does not improve protein mass. <i>Nutrition</i> , <b>2012</b> , 28, 566-71	4.8	2
8	Profound Changes in Net Energy and Nitrogen Metabolites Fluxes within the Splanchnic Area during Overfeeding of Yucatan Mini Pigs That Remain Euglycemic. <i>Nutrients</i> , <b>2019</b> , 11,	6.7	1
7	Post Meal Energy Boluses Do Not Increase the Duration of Muscle Protein Synthesis Stimulation in Two Anabolic Resistant Situations. <i>Nutrients</i> , <b>2019</b> , 11,	6.7	1
6	Long-term dietary supplementation with cystathionine improves tissue glutathione in ageing rats. <i>Aging Clinical and Experimental Research</i> , <b>2016</b> , 28, 781-5	4.8	1
5	Dietary supplementation with cysteine prevents adverse metabolic outcomes of repeated cures with paracetamol in old rats. <i>British Journal of Nutrition</i> , <b>2017</b> , 118, 889-896	3.6	1
4	Postprandial NMR-Based Metabolic Exchanges Reflect Impaired Phenotypic Flexibility across Splanchnic Organs in the Obese Yucatan Mini-Pig. <i>Nutrients</i> , <b>2020</b> , 12,	6.7	1
3	Innovative plAnt Protein fibre and Physical activity solutions to address poor appEtite and prevent undernUTion in oldEr adults à l'APPETITE. <i>Nutrition Bulletin</i> , <b>2021</b> , 46, 486-496	3.5	0
2	Quels sont les dterminants importants à prendre en compte pour optimiser la nutrition protique chez les personnes gées : une quation complexe mais avec des solutions. <i>Cahiers De Nutrition Et De Dietetique</i> , <b>2021</b> , 56, 333-333	0.2	
1	Muscle Wasting and Resistance of Muscle Anabolism: The àAnabolic Threshold Conceptà For Adapted Nutritional Strategies during Sarcopenia <b>2016</b> , 209-220		