Louise Deldicque

List of Publications by Citations

115 papers	7,469 citations	34 h-index	86 g-index
118 ext. papers	9,711 ext. citations	3.9 avg, IF	5.62 L-index

#	Paper	IF	Citations
115	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*, **2016**, 12, 1-222	10.2	3838
114	PHD1 controls muscle mTORC1 in a hydroxylation-independent manner by stabilizing leucyl tRNA synthetase. *Nature Communications*, **2020**, 11, 174	17.4	394
113	Inulin-type fructans with prebiotic properties counteract GPR43 overexpression and PPAR-related adipogenesis in the white adipose tissue of high-fat diet-fed mice. *Journal of Nutritional Biochemistry*, **2011**, 22, 712-22	6.3	204
112	The unfolded protein response is activated in skeletal muscle by high-fat feeding: potential role in the downregulation of protein synthesis. *American Journal of Physiology - Endocrinology and Metabolism*, **2010**, 299, E695-705	6	111
111	Modulation of autophagy and ubiquitin-proteasome pathways during ultra-endurance running. *Journal of Applied Physiology*, **2012**, 112, 1529-37	3.7	106
110	Activation of autophagy in human skeletal muscle is dependent on exercise intensity and AMPK activation. *FASEB Journal*, **2015**, 29, 3515-26	0.9	93
109	Effects of resistance exercise with and without creatine supplementation on gene expression and cell signaling in human skeletal muscle. *Journal of Applied Physiology*, **2008**, 104, 371-8	3.7	93
108	Increased IGF mRNA in human skeletal muscle after creatine supplementation. *Medicine and Science in Sports and Exercise*, **2005**, 37, 731-6	1.2	88
107	Does High Cardiorespiratory Fitness Confer Some Protection Against Proinflammatory Responses After Infection by SARS-CoV-2?. *Obesity*, **2020**, 28, 1378-1381	8	86
106	A novel bioreactor for stimulating skeletal muscle in vitro. *Tissue Engineering - Part C: Methods*, **2010**, 16, 711-8	2.9	84
105	Regulation of mTOR by amino acids and resistance exercise in skeletal muscle. *European Journal of Applied Physiology*, **2005**, 94, 1-10	3.4	80
104	Decrease in Akt/PKB signalling in human skeletal muscle by resistance exercise. *European Journal of Applied Physiology*, **2008**, 104, 57-65	3.4	75
103	A satellite cell-specific knockout of the androgen receptor reveals myostatin as a direct androgen target in skeletal muscle. *FASEB Journal*, **2014**, 28, 2979-94	0.9	73
102	Toll-like receptor 4 knockout mice are protected against endoplasmic reticulum stress induced by a high-fat diet. *PLoS ONE*, **2013**, 8, e65061	3.7	72
101	Creatine enhances differentiation of myogenic C2C12 cells by activating both p38 and Akt/PKB pathways. *American Journal of Physiology - Cell Physiology*, **2007**, 293, C1263-71	5.4	71
100	Sprint interval training in hypoxia stimulates glycolytic enzyme activity. *Medicine and Science in Sports and Exercise*, **2013**, 45, 2166-74	1.2	65
99	Training in the fasted state improves glucose tolerance during fat-rich diet. *Journal of Physiology*, **2010**, 588, 4289-302	3.9	62

98	Changes in intestinal bifidobacteria levels are associated with the inflammatory response in magnesium-deficient mice. *Journal of Nutrition*, **2010**, 140, 509-14	4.1	62
97	Hepatic n-3 polyunsaturated fatty acid depletion promotes steatosis and insulin resistance in mice: genomic analysis of cellular targets. *PLoS ONE*, **2011**, 6, e23365	3.7	61
96	Nuclear respiratory factor 1 and endurance exercise promote human telomere transcription. *Science Advances*, **2016**, 2, e1600031	14.3	58
95	Endoplasmic reticulum stress markers and ubiquitin–proteasome pathway activity in response to a 200-km run. *Medicine and Science in Sports and Exercise*, **2011**, 43, 18-25	1.2	58
94	Androgen Deficiency Exacerbates High-Fat Diet-Induced Metabolic Alterations in Male Mice. *Endocrinology*, **2016**, 157, 648-65	4.8	50
93	Antagonistic effects of leucine and glutamine on the mTOR pathway in myogenic C2C12 cells. *Amino Acids*, **2008**, 35, 147-55	3.5	48
92	Biochemical artifacts in experiments involving repeated biopsies in the same muscle. *Physiological Reports*, **2014**, 2, e00286	2.6	46
91	Impact of Very Early Physical Therapy During Septic Shock on Skeletal Muscle: A Randomized Controlled Trial. *Critical Care Medicine*, **2018**, 46, 1436-1443	1.4	45
90	Endoplasmic reticulum stress in human skeletal muscle: any contribution to sarcopenia?. *Frontiers in Physiology*, **2013**, 4, 236	4.6	43
89	Endoplasmic reticulum stress in skeletal muscle: origin and metabolic consequences. *Exercise and Sport Sciences Reviews*, **2012**, 40, 43-9	6.7	43
88	Effect of acute environmental hypoxia on protein metabolism in human skeletal muscle. *Acta Physiologica*, **2013**, 208, 251-64	5.6	39
87	Hepatic steatosis in n-3 fatty acid depleted mice: focus on metabolic alterations related to tissue fatty acid composition. *BMC Physiology*, **2008**, 8, 21	0	39
86	Aging Reduces the Activation of the mTORC1 Pathway after Resistance Exercise and Protein Intake in Human Skeletal Muscle: Potential Role of REDD1 and Impaired Anabolic Sensitivity. *Nutrients*, **2016**, 8,	6.7	39
85	Acute environmental hypoxia induces LC3 lipidation in a genotype-dependent manner. *FASEB Journal*, **2014**, 28, 1022-34	0.9	38
84	ER stress induces anabolic resistance in muscle cells through PKB-induced blockade of mTORC1. *PLoS ONE*, **2011**, 6, e20993	3.7	35
83	Prevention of muscle disuse atrophy by MG132 proteasome inhibitor. *Muscle and Nerve*, **2011**, 43, 708-16	3.4	34
82	TLR2 and TLR4 activate p38 MAPK and JNK during endurance exercise in skeletal muscle. *Medicine and Science in Sports and Exercise*, **2012**, 44, 1463-72	1.2	34
81	Activation of ER stress by hydrogen peroxide in C2C12 myotubes. *Biochemical and Biophysical Research Communications*, **2014**, 450, 459-63	3.4	32

80	Kinetics of creatine ingested as a food ingredient. *European Journal of Applied Physiology*, **2008**, 102, 133-43	3.4	32
79	Urolithin B, a newly identified regulator of skeletal muscle mass. *Journal of Cachexia, Sarcopenia and Muscle*, **2017**, 8, 583-597	10.3	31
78	Repeated maximal-intensity hypoxic exercise superimposed to hypoxic residence boosts skeletal muscle transcriptional responses in elite team-sport athletes. *Acta Physiologica*, **2018**, 222, e12851	5.6	30
77	Blunted angiogenesis and hypertrophy are associated with increased fatigue resistance and unchanged aerobic capacity in old overloaded mouse muscle. *Age*, **2016**, 38, 39		29
76	Endurance training in mice increases the unfolded protein response induced by a high-fat diet. *Journal of Physiology and Biochemistry*, **2013**, 69, 215-25	5	29
75	Regular Endurance Exercise Promotes Fission, Mitophagy, and Oxidative Phosphorylation in Human Skeletal Muscle Independently of Age. *Frontiers in Physiology*, **2019**, 10, 1088	4.6	28
74	Blunted hypertrophic response in old mouse muscle is associated with a lower satellite cell density and is not alleviated by resveratrol. *Experimental Gerontology*, **2015**, 62, 23-31	4.5	28
73	Role of alpha-actinin-3 in contractile properties of human single muscle fibers: a case series study in paraplegics. *PLoS ONE*, **2012**, 7, e49281	3.7	28
72	The unfolded protein response in human skeletal muscle is not involved in the onset of glucose tolerance impairment induced by a fat-rich diet. *European Journal of Applied Physiology*, **2011**, 111, 1553-8	3.4	27
71	No effect of dietary nitrate supplementation on endurance training in hypoxia. *Scandinavian Journal of Medicine and Science in Sports*, **2015**, 25, 234-41	4.6	25
70	Increased p70s6k phosphorylation during intake of a protein-carbohydrate drink following resistance exercise in the fasted state. *European Journal of Applied Physiology*, **2010**, 108, 791-800	3.4	24
69	Lack of Activation of Mitophagy during Endurance Exercise in Human. *Medicine and Science in Sports and Exercise*, **2017**, 49, 1552-1561	1.2	23
68	Activating transcription factor 3 attenuates chemokine and cytokine expression in mouse skeletal muscle after exercise and facilitates molecular adaptation to endurance training. *FASEB Journal*, **2017**, 31, 840-851	0.9	23
67	Nitrate Intake Promotes Shift in Muscle Fiber Type Composition during Sprint Interval Training in Hypoxia. *Frontiers in Physiology*, **2016**, 7, 233	4.6	23
66	Human skeletal muscle wasting in hypoxia: a matter of hypoxic dose?. *Journal of Applied Physiology*, **2017**, 122, 406-408	3.7	22
65	Regulation of ubiquitin-proteasome and autophagy pathways after acute LPS and epoxomicin administration in mice. *BMC Musculoskeletal Disorders*, **2014**, 15, 166	2.8	22
64	Additive insulinogenic action of Opuntia ficus-indica cladode and fruit skin extract and leucine after exercise in healthy males. *Journal of the International Society of Sports Nutrition*, **2013**, 10, 45	4.5	22
63	Physical Activity and Nutrition: Two Promising Strategies for Telomere Maintenance?. *Nutrients*, **2018**, 10,	6.7	22

62	Toll like receptor expression induced by exercise in obesity and metabolic syndrome: A systematic review. *Exercise Immunology Review*, **2018**, 24, 60-71	8.6	22
61	Increased endoplasmic reticulum stress in mouse osteocytes with aging alters Cox-2 response to mechanical stimuli. *Calcified Tissue International*, **2015**, 96, 123-8	3.9	21
60	The effect of a standard whole blood donation on oxygen uptake and exercise capacity: a systematic review and meta-analysis. *Transfusion*, **2017**, 57, 451-462	2.9	21
59	Hippo Pathway and Skeletal Muscle Mass Regulation in Mammals: A Controversial Relationship. *Frontiers in Physiology*, **2017**, 8, 190	4.6	21
58	Muscle histidine-containing dipeptides are elevated by glucose intolerance in both rodents and men. *PLoS ONE*, **2015**, 10, e0121062	3.7	21
57	Pomegranate and green tea extracts protect against ER stress induced by a high-fat diet in skeletal muscle of mice. *European Journal of Nutrition*, **2015**, 54, 377-89	5.2	20
56	Potential harmful effects of dietary supplements in sports medicine. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2016**, 19, 439-445	3.8	20
55	Aging related ER stress is not responsible for anabolic resistance in mouse skeletal muscle. *Biochemical and Biophysical Research Communications*, **2015**, 468, 702-7	3.4	19
54	Evidence for ACTN3 as a Speed Gene in Isolated Human Muscle Fibers. *PLoS ONE*, **2016**, 11, e0150594	3.7	19
53	History-dependent force, angular velocity and muscular endurance in ACTN3 genotypes. *European Journal of Applied Physiology*, **2015**, 115, 1637-43	3.4	18
52	Exercise and the control of muscle mass in human. *Pflugers Archiv European Journal of Physiology*, **2019**, 471, 397-411	4.6	18
51	High-fat diet overrules the effects of training on fiber-specific intramyocellular lipid utilization during exercise. *Journal of Applied Physiology*, **2011**, 111, 108-16	3.7	17
50	Anti-Inflammatory Effect of Exercise Mediated by Toll-Like Receptor Regulation in Innate Immune Cells - A Review. *International Reviews of Immunology*, **2020**, 39, 39-52	4.6	17
49	Hypoxic Training Improves Normoxic Glucose Tolerance in Adolescents with Obesity. *Medicine and Science in Sports and Exercise*, **2018**, 50, 2200-2208	1.2	17
48	Effects of Caffeine on Countermovement-Jump Performance Variables in Elite Male Volleyball Players. *International Journal of Sports Physiology and Performance*, **2018**, 13, 145-150	3.5	16
47	Environmental hypoxia favors myoblast differentiation and fast phenotype but blunts activation of protein synthesis after resistance exercise in human skeletal muscle. *FASEB Journal*, **2018**, 32, 5272-5284	0.9	16
46	Plasma carnosine, but not muscle carnosine, attenuates high-fat diet-induced metabolic stress. *Applied Physiology, Nutrition and Metabolism*, **2015**, 40, 868-76	3	15
45	Lack of effects of creatine on the regeneration of soleus muscle after injury in rats. *Medicine and Science in Sports and Exercise*, **2009**, 41, 1761-9	1.2	15

44	Acute vs chronic hypoxia: what are the consequences for skeletal muscle mass? **2013**, 2,		15
43	Recommendations for Healthy Nutrition in Female Endurance Runners: An Update. *Frontiers in Nutrition*, **2015**, 2, 17	6.2	14
42	Salivary Biomarker Responses to Two Final Matches in Women'S Professional Football. *Journal of Sports Science and Medicine*, **2016**, 15, 365-71	2.7	14
41	Adaptations in muscle oxidative capacity, fiber size, and oxygen supply capacity after repeated-sprint training in hypoxia combined with chronic hypoxic exposure. *Journal of Applied Physiology*, **2018**, 124, 1403-1412	3.7	13
40	Effect of Repeated Whole Blood Donations on Aerobic Capacity and Hemoglobin Mass in Moderately Trained Male Subjects: A Randomized Controlled Trial. *Sports Medicine - Open*, **2016**, 2, 43	6.1	13
39	Functional food for exercise performance: fact or foe?. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2008**, 11, 774-81	3.8	12
38	Acute environmental hypoxia potentiates satellite cell-dependent myogenesis in response to resistance exercise through the inflammation pathway in human. *FASEB Journal*, **2020**, 34, 1885-1900	0.9	12
37	Fifteen days of 3,200 m simulated hypoxia marginally regulates markers for protein synthesis and degradation in human skeletal muscle. *Hypoxia (Auckland, N Z)*, **2016**, 4, 1-14	2.1	10
36	Using polyphenol derivatives to prevent muscle wasting. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2018**, 21, 159-163	3.8	9
35	Activation of protein synthesis, regeneration, and MAPK signaling pathways following repeated bouts of eccentric cycling. *American Journal of Physiology - Endocrinology and Metabolism*, **2019**, 317, E1131-E1139	6	9
34	Activating transcription factor 3 regulates chemokine expression in contracting CC myotubes and in mouse skeletal muscle after eccentric exercise. *Biochemical and Biophysical Research Communications*, **2017**, 492, 249-254	3.4	9
33	Contribution of nonesterified fatty acids to mitogen-activated protein kinase activation in human skeletal muscle during endurance exercise. *International Journal of Sport Nutrition and Exercise Metabolism*, **2013**, 23, 201-9	4.4	9
32	The stiffness response of type IIa fibres after eccentric exercise-induced muscle damage is dependent on ACTN3 r577X polymorphism. *European Journal of Sport Science*, **2019**, 19, 480-489	3.9	7
31	A genetic predisposition score associates with reduced aerobic capacity in response to acute normobaric hypoxia in lowlanders. *High Altitude Medicine and Biology*, **2015**, 16, 34-42	1.9	6
30	TLR2 and TLR4 activation induces p38 MAPK-dependent phosphorylation of S6 kinase 1 in C2C12 myotubes. *Cell Biology International*, **2012**, 36, 1107-13	4.5	6
29	Effects of A High Intensity Interval Session on Mucosal Immune Function and Salivary Hormones in Male and Female Endurance Athletes. *Journal of Sports Science and Medicine*, **2020**, 19, 436-443	2.7	6
28	Skeletal Muscle Signaling Following Whole-Body and Localized Heat Exposure in Humans. *Frontiers in Physiology*, **2020**, 11, 839	4.6	5
27	Effect of hypoxic exercise on glucose tolerance in healthy and prediabetic adults. *American Journal of Physiology - Endocrinology and Metabolism*, **2021**, 320, E43-E54	6	5

26	Acute systemic insulin intolerance does not alter the response of the Akt/GSK-3 pathway to environmental hypoxia in human skeletal muscle. *European Journal of Applied Physiology*, **2015**, 115, 1219-31	3.4	4
25	Impact of a Design-Based Bike Exergame on Young AdultsSPhysical Activity Metrics and Situational Interest. *Research Quarterly for Exercise and Sport*, **2020**, 91, 309-315	1.9	4
24	No effect of the endurance training status on senescence despite reduced inflammation in skeletal muscle of older individuals. *American Journal of Physiology - Endocrinology and Metabolism*, **2020**, 319, E447-E454	6	4
23	Muscle structural, energetic and functional benefits of endurance exercise training in sickle cell disease. *American Journal of Hematology*, **2020**, 95, 1257-1268	7.1	4
22	Differences in salivary hormones and perception of exertion in elite women and men volleyball players during tournament. *Journal of Sports Medicine and Physical Fitness*, **2018**, 58, 1688-1694	1.4	4
21	Cardiotoxin-induced skeletal muscle injury elicits profound changes in anabolic and stress signaling, and muscle fiber type composition. *Journal of Muscle Research and Cell Motility*, **2020**, 41, 375-387	3.5	3
20	The Regulation of the Metastatic Cascade by Physical Activity: A Narrative Review. *Cancers*, **2020**, 12,	6.6	3
19	Effects of an acute exercise bout in hypoxia on extracellular vesicle release in healthy and prediabetic subjects.. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2021**,	3.2	3
18	Acute and Chronic Effects of High Frequency Electric Pulse Stimulation on the Akt/mTOR Pathway in Human Primary Myotubes. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 565679	5.8	3
17	Effects of Saffron Extract on Sleep Quality: A Randomized Double-Blind Controlled Clinical Trial. *Nutrients*, **2021**, 13,	6.7	3
16	Marked Increased Production of Acute Phase Reactants by Skeletal Muscle during Cancer Cachexia. *Cancers*, **2020**, 12,	6.6	2
15	Myoferlin Is a Yet Unknown Interactor of the Mitochondrial DynamicsSMachinery in Pancreas Cancer Cells. *Cancers*, **2020**, 12,	6.6	2
14	Higher strength gain after hypoxic vs normoxic resistance training despite no changes in muscle thickness and fractional protein synthetic rate. *FASEB Journal*, **2021**, 35, e21773	0.9	2
13	Last Word on Viewpoint: Human skeletal muscle wasting in hypoxia: a matter of hypoxic dose?. *Journal of Applied Physiology*, **2017**, 122, 412-413	3.7	1
12	Changes in Cortisol and Immunoglobulin a Concentrations in Referees during a Professional Football Match. *Journal of Sports Science and Medicine*, **2018**, 17, 689-690	2.7	1
11	Iron supplementation limits the deleterious effects of repeated blood donation on endurance sport performance but not on iron status. *Blood Transfusion*, **2020**, 18, 334-347	3.6	1
10	Effects of a 30-week combined training program in normoxia and in hypoxia on exercise performance and health-related parameters in obese adolescents: a pilot study. *Journal of Sports Medicine and Physical Fitness*, **2020**, 60, 601-609	1.4	1
9	Effects of Sprint Interval Training at Different Altitudes on Cycling Performance at Sea-Level. *Sports*, **2020**, 8,	3	1

8	Regulation of satellite cells by exercise in hypoxic conditions: a narrative review. *European Journal of Applied Physiology*, **2021**, 121, 1531-1542	3.4	1
7	Endurance training alleviates MCP-1 and TERRA accumulation at old age in human skeletal muscle. *Experimental Gerontology*, **2021**, 153, 111510	4.5	1
6	Effects of High-Intensity Interval Training in Hypoxia on Taekwondo Performance. *International Journal of Sports Physiology and Performance*, **2020**, 1-7	3.5	0
5	Is Physical Exercise in Hypoxia an Interesting Strategy to Prevent the Development of Type 2 Diabetes? A Narrative Review. *Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy*, **2021**, 14, 3603-3616	3.4	0
4	Does Normobaric Hypoxic Resistance Training Confer Benefit over Normoxic Training in Athletes? A Narrative Review. *Journal of Science in Sport and Exercise*,1	1	0
3	Fluid shear stress-induced mechanotransduction in myoblasts: Does it depend on the glycocalyx?. *Experimental Cell Research*, **2022**, 113204	4.2	0
2	Effets de la supplémentation en créatine sur la cinétique de réoxygénation du muscle squelettique après ischémie étendue. *Science and Sports*, **2005**, 20, 187-189	0.8	
1	Augmentation de l'ARNm d'IGF musculaire par la créatine. *Science and Sports*, **2005**, 20, 190-192	0.8	