Louise Deldicque

List of Publications by Year
in descending order

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117 papers	10,912 citations	81743 39 h-index	40881 93 g-index
118 all docs	118 docs citations	118 times ranked	25113 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
2	PHD1 controls muscle mTORC1 in a hydroxylation-independent manner by stabilizing leucyl tRNA synthetase. Nature Communications, 2020, 11, 174.	5.8	1,868
3	Inulin-type fructans with prebiotic properties counteract GPR43 overexpression and PPARÎ³-related adipogenesis in the white adipose tissue of high-fat diet-fed mice. Journal of Nutritional Biochemistry, 2011, 22, 712-722.	1.9	237
4	Does High Cardiorespiratory Fitness Confer Some Protection Against Proinflammatory Responses After Infection by SARSâ€CoVâ€2?. Obesity, 2020, 28, 1378-1381.	1.5	140
5	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-E705.	1.8	134
6	Activation of autophagy in human skeletal muscle is dependent on exercise intensity and AMPK activation. FASEB Journal, 2015, 29, 3515-3526.	0.2	131
7	Modulation of autophagy and ubiquitin-proteasome pathways during ultra-endurance running. Journal of Applied Physiology, 2012, 112, 1529-1537.	1.2	127
8	Increased IGF mRNA in Human Skeletal Muscle after Creatine Supplementation. Medicine and Science in Sports and Exercise, 2005, 37, 731-736.	0.2	110
9	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, 371-378.	1.2	110
10	A satellite cellâ€specific knockout of the androgen receptor reveals myostatin as a direct androgen target in skeletal muscle. FASEB Journal, 2014, 28, 2979-2994.	0.2	100
11	A Novel Bioreactor for Stimulating Skeletal MuscleIn Vitro. Tissue Engineering - Part C: Methods, 2010, 16, 711-718.	1.1	97
12	Regulation of mTOR by amino acids and resistance exercise in skeletal muscle. European Journal of Applied Physiology, 2005, 94, 1-10.	1.2	95
13	Creatine enhances differentiation of myogenic C₂C₁₂cells by activating both p38 and Akt/PKB pathways. American Journal of Physiology - Cell Physiology, 2007, 293, C1263-C1271.	2.1	89
14	Decrease in Akt/PKB signalling in human skeletal muscle by resistance exercise. European Journal of Applied Physiology, 2008, 104, 57-65.	1.2	89
15	Toll-Like Receptor 4 Knockout Mice Are Protected against Endoplasmic Reticulum Stress Induced by a High-Fat Diet. PLoS ONE, 2013, 8, e65061.	1.1	87
16	Changes in Intestinal Bifidobacteria Levels Are Associated with the Inflammatory Response in Magnesium-Deficient Mice. Journal of Nutrition, 2010, 140, 509-514.	1.3	83
17	Hepatic n-3 Polyunsaturated Fatty Acid Depletion Promotes Steatosis and Insulin Resistance in Mice: Genomic Analysis of Cellular Targets. PLoS ONE, 2011, 6, e23365.	1.1	83
18	Sprint Interval Training in Hypoxia Stimulates Glycolytic Enzyme Activity. Medicine and Science in Sports and Exercise, 2013, 45, 2166-2174.	0.2	78

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19	Nuclear respiratory factor 1 and endurance exercise promote human telomere transcription. Science Advances, 2016, 2, e1600031.	4.7	78
20	Androgen Deficiency Exacerbates High-Fat Diet-Induced Metabolic Alterations in Male Mice. Endocrinology, 2016, 157, 648-665.	1.4	78
21	Training in the fasted state improves glucose tolerance during fat-rich diet. Journal of Physiology, 2010, 588, 4289-4302.	1.3	77
22	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.	0.2	74
23	Impact of Very Early Physical Therapy During Septic Shock on Skeletal Muscle: A Randomized Controlled Trial. Critical Care Medicine, 2018, 46, 1436-1443.	0.4	74
24	Regular Endurance Exercise Promotes Fission, Mitophagy, and Oxidative Phosphorylation in Human Skeletal Muscle Independently of Age. Frontiers in Physiology, 2019, 10, 1088.	1.3	60
25	Endoplasmic reticulum stress in human skeletal muscle: any contribution to sarcopenia?. Frontiers in Physiology, 2013, 4, 236.	1.3	59
26	Biochemical artifacts in experiments involving repeated biopsies in the same muscle. Physiological Reports, 2014, 2, e00286.	0.7	55
27	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, 47.	1.7	54
28	Antagonistic effects of leucine and glutamine on the mTOR pathway in myogenic C2C12 cells. Amino Acids, 2008, 35, 147-155.	1.2	52
29	Endoplasmic Reticulum Stress in Skeletal Muscle. Exercise and Sport Sciences Reviews, 2012, 40, 43-49.	1.6	51
30	Urolithin B, a newly identified regulator of skeletal muscle mass. Journal of Cachexia, Sarcopenia and Muscle, 2017, 8, 583-597.	2.9	51
31	Acute environmental hypoxia induces LC3 lipidation in a genotypeâ€dependent manner. FASEB Journal, 2014, 28, 1022-1034.	0.2	48
32	Effect of acute environmental hypoxia on protein metabolism in human skeletal muscle. Acta Physiologica, 2013, 208, 251-264.	1.8	47
33	TLR2 and TLR4 Activate p38 MAPK and JNK during Endurance Exercise in Skeletal Muscle. Medicine and Science in Sports and Exercise, 2012, 44, 1463-1472.	0.2	46
34	Anti-Inflammatory Effect of Exercise Mediated by Toll-Like Receptor Regulation in Innate Immune Cells â€“ A Review. International Reviews of Immunology, 2020, 39, 39-52.	1.5	46
35	Repeated maximalâ€intensity hypoxic exercise superimposed to hypoxic residence boosts skeletal muscle transcriptional responses in elite teamâ€sport athletes. Acta Physiologica, 2018, 222, e12851.	1.8	44
36	ER Stress Induces Anabolic Resistance in Muscle Cells through PKB-Induced Blockade of mTORC1. PLoS ONE, 2011, 6, e20993.	1.1	43

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37	Hepatic steatosis in n-3 fatty acid depleted mice: focus on metabolic alterations related to tissue fatty acid composition. BMC Physiology, 2008, 8, 21.	3.6	42
38	Physical Activity and Nutrition: Two Promising Strategies for Telomere Maintenance?. Nutrients, 2018, 10, 1942.	1.7	41
39	Kinetics of creatine ingested as a food ingredient. European Journal of Applied Physiology, 2007, 102, 133-143.	1.2	39
40	Activation of ER stress by hydrogen peroxide in C2C12 myotubes. Biochemical and Biophysical Research Communications, 2014, 450, 459-463.	1.0	39
41	Prevention of muscle disuse atrophy by MG132 proteasome inhibitor. Muscle and Nerve, 2011, 43, 708-715.	1.0	38
42	Role of Alpha-actinin-3 in Contractile Properties of Human Single Muscle Fibers: A Case Series Study in Paraplegics. PLoS ONE, 2012, 7, e49281.	1.1	36
43	Endurance training in mice increases the unfolded protein response induced by a high-fat diet. Journal of Physiology and Biochemistry, 2013, 69, 215-225.	1.3	36
44	Blunted angiogenesis and hypertrophy are associated with increased fatigue resistance and unchanged aerobic capacity in old overloaded mouse muscle. Age, 2016, 38, 39.	3.0	35
45	Potential harmful effects of dietary supplements in sports medicine. Current Opinion in Clinical Nutrition and Metabolic Care, 2016, 19, 439-445.	1.3	33
46	Lack of Activation of Mitophagy during Endurance Exercise in Human. Medicine and Science in Sports and Exercise, 2017, 49, 1552-1561.	0.2	33
47	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, 1553-1558.	1.2	32
48	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.	1.2	32
49	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.	0.2	30
50	Hippo Pathway and Skeletal Muscle Mass Regulation in Mammals: A Controversial Relationship. Frontiers in Physiology, 2017, 8, 190.	1.3	30
51	Evidence for ACTN3 as a Speed Gene in Isolated Human Muscle Fibers. PLoS ONE, 2016, 11, e0150594.	1.1	30
52	Increased p70s6k phosphorylation during intake of a proteinâ€“carbohydrate drink following resistance exercise in the fasted state. European Journal of Applied Physiology, 2010, 108, 791-800.	1.2	29
53	Increased Endoplasmic Reticulum Stress in Mouse Osteocytes with Aging Alters Cox-2 Response to Mechanical Stimuli. Calcified Tissue International, 2015, 96, 123-128.	1.5	29
54	No effect of dietary nitrate supplementation on endurance training in hypoxia. Scandinavian Journal of Medicine and Science in Sports, 2015, 25, 234-241.	1.3	29

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55	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.	1.7	28
56	History-dependent force, angular velocity and muscular endurance in ACTN3 genotypes. European Journal of Applied Physiology, 2015, 115, 1637-1643.	1.2	28
57	Nitrate Intake Promotes Shift in Muscle Fiber Type Composition during Sprint Interval Training in Hypoxia. Frontiers in Physiology, 2016, 7, 233.	1.3	28
58	Human skeletal muscle wasting in hypoxia: a matter of hypoxic dose?. Journal of Applied Physiology, 2017, 122, 406-408.	1.2	28
59	Hypoxic Training Improves Normoxic Glucose Tolerance in Adolescents with Obesity. Medicine and Science in Sports and Exercise, 2018, 50, 2200-2208.	0.2	28
60	Exercise and the control of muscle mass in human. Pflugers Archiv European Journal of Physiology, 2019, 471, 397-411.	1.3	28
61	Regulation of ubiquitin-proteasome and autophagy pathways after acute LPS and epoxomicin administration in mice. BMC Musculoskeletal Disorders, 2014, 15, 166.	0.8	27
62	The effect of a standard whole blood donation on oxygen uptake and exercise capacity: a systematic review and metaâ€analysis. Transfusion, 2017, 57, 451-462.	0.8	27
63	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.	1.2	25
64	Effects of Saffron Extract on Sleep Quality: A Randomized Double-Blind Controlled Clinical Trial. Nutrients, 2021, 13, 1473.	1.7	25
65	Muscle Histidine-Containing Dipeptides Are Elevated by Glucose Intolerance in Both Rodents and Men. PLoS ONE, 2015, 10, e0121062.	1.1	24
66	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, 377-389.	1.8	24
67	Toll like receptor expression induced by exercise in obesity and metabolic syndrome: A systematic review. Exercise Immunology Review, 2018, 24, 60-71.	0.4	24
68	Effects of Caffeine on Countermovement-Jump Performance Variables in Elite Male Volleyball Players. International Journal of Sports Physiology and Performance, 2018, 13, 145-150.	1.1	23
69	Aging related ER stress is not responsible for anabolic resistance in mouse skeletal muscle. Biochemical and Biophysical Research Communications, 2015, 468, 702-707.	1.0	22
70	High-fat diet overrules the effects of training on fiber-specific intramyocellular lipid utilization during exercise. Journal of Applied Physiology, 2011, 111, 108-116.	1.2	20
71	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.	0.2	20
72	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.	1.3	19

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73	Recommendations for Healthy Nutrition in Female Endurance Runners: An Update. Frontiers in Nutrition, 2015, 2, 17.	1.6	18
74	Plasma carnosine, but not muscle carnosine, attenuates high-fat diet-induced metabolic stress. Applied Physiology, Nutrition and Metabolism, 2015, 40, 868-876.	0.9	18
75	Acute environmental hypoxia potentiates satellite cellâ€dependent myogenesis in response to resistance exercise through the inflammation pathway in human. FASEB Journal, 2020, 34, 1885-1900.	0.2	18
76	Skeletal Muscle Signaling Following Whole-Body and Localized Heat Exposure in Humans. Frontiers in Physiology, 2020, 11, 839.	1.3	17
77	Acute vs chronic hypoxia: what are the consequences for skeletal muscle mass?. Cellular and Molecular Exercise Physiology, 2013, 2, .	0.7	16
78	Functional food for exercise performance: fact or foe?. Current Opinion in Clinical Nutrition and Metabolic Care, 2008, 11, 774-781.	1.3	15
79	Lack of Effects of Creatine on the Regeneration of Soleus Muscle after Injury in Rats. Medicine and Science in Sports and Exercise, 2009, 41, 1761-1769.	0.2	15
80	Using polyphenol derivatives to prevent muscle wasting. Current Opinion in Clinical Nutrition and Metabolic Care, 2018, 21, 159-163.	1.3	14
81	Impact of a Design-Based Bike Exergame on Young Adultsâ€™ Physical Activity Metrics and Situational Interest. Research Quarterly for Exercise and Sport, 2020, 91, 309-315.	0.8	14
82	Salivary Biomarker Responses to Two Final Matches in Women's Professional Football. Journal of Sports Science and Medicine, 2016, 15, 365-71.	0.7	14
83	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, 2022, 322, R112-R122.	0.9	14
84	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.	1.9	13
85	Activating transcription factor 3 regulates chemokine expression in contracting C2C12 myotubes and in mouse skeletal muscle after eccentric exercise. Biochemical and Biophysical Research Communications, 2017, 492, 249-254.	1.0	13
86	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.	2.0	12
87	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.	1.8	11
88	Protein Intake and Exercise-Induced Skeletal Muscle Hypertrophy: An Update. Nutrients, 2020, 12, 2023.	1.7	11
89	Effect of hypoxic exercise on glucose tolerance in healthy and prediabetic adults. American Journal of Physiology - Endocrinology and Metabolism, 2021, 320, E43-E54.	1.8	11
90	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, 201-209.	1.0	10

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91	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.	0.7	10
92	The stiffness response of type IIa fibres after eccentric exerciseâ€induced muscle damage is dependent on ACTN3 r577X polymorphism. European Journal of Sport Science, 2019, 19, 480-489.	1.4	9
93	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.	1.8	9
94	Muscle structural, energetic and functional benefits of endurance exercise training in sickle cell disease. American Journal of Hematology, 2020, 95, 1257-1268.	2.0	9
95	TLR2 and TLR4 activation induces p38 MAPK-dependent phosphorylation of S6 kinase 1 in C2C12 myotubes. Cell Biology International, 2012, 36, 1107-1113.	1.4	8
96	Myoferlin Is a Yet Unknown Interactor of the Mitochondrial Dynamicsâ€™ Machinery in Pancreas Cancer Cells. Cancers, 2020, 12, 1643.	1.7	8
97	The Regulation of the Metastatic Cascade by Physical Activity: A Narrative Review. Cancers, 2020, 12, 153.	1.7	8
98	Reduced growth rate of aged muscle stem cells is associated with impaired mechanosensitivity. Aging, 2022, 14, 28-53.	1.4	8
99	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, 1219-1231.	1.2	7
100	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.	0.4	7
101	Effects of Sprint Interval Training at Different Altitudes on Cycling Performance at Sea-Level. Sports, 2020, 8, 148.	0.7	7
102	Marked Increased Production of Acute Phase Reactants by Skeletal Muscle during Cancer Cachexia. Cancers, 2020, 12, 3221.	1.7	7
103	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.	0.9	7
104	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.	0.5	6
105	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.	0.2	6
106	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, Volume 14, 3603-3616.	1.1	6
107	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.	0.4	5
108	Regulation of satellite cells by exercise in hypoxic conditions: a narrative review. European Journal of Applied Physiology, 2021, 121, 1531-1542.	1.2	4

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109	Endurance training alleviates MCP-1 and TERRA accumulation at old age in human skeletal muscle. Experimental Gerontology, 2021, 153, 111510.	1.2	3
110	Effects of High-Intensity Interval Training in Hypoxia on Taekwondo Performance. International Journal of Sports Physiology and Performance, 2020, 15, 1125-1131.	1.1	3
111	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.	0.3	3
112	Does Normobaric Hypoxic Resistance Training Confer Benefit over Normoxic Training in Athletes? A Narrative Review. Journal of Science in Sport and Exercise, 2022, 4, 306-314.	0.4	3
113	Last Word on Viewpoint: Human skeletal muscle wasting in hypoxia: a matter of hypoxic dose?. Journal of Applied Physiology, 2017, 122, 412-413.	1.2	2
114	Fluid shear stress-induced mechanotransduction in myoblasts: Does it depend on the glycocalyx?. Experimental Cell Research, 2022, 417, 113204.	1.2	2
115	Changes in Cortisol and Immunoglobulin a Concentrations in Referees during a Professional Football Match. Journal of Sports Science and Medicine, 2018, 17, 689-690.	0.7	1
116	Effets de la supplÃ©mentation en crÃ©atine sur la cinÃ©tique de rÃ©gÃ©nÃ©rescence du muscle squelettique aprÃ¨s lÃ©sion Ã©tendue. Science and Sports, 2005, 20, 187-189.	0.2	0
117	Augmentation de l'ARNm d'IGF musculaire par la crÃ©atine. Science and Sports, 2005, 20, 190-192.	0.2	0