

Clara Prats

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

1,801
citations

25
h-index

42
g-index

49
ext. papers

2,083
ext. citations

3.8
avg. IF

4.43
L-index

#	Paper	IF	Citations
49	Rac1 signaling is required for insulin-stimulated glucose uptake and is dysregulated in insulin-resistant murine and human skeletal muscle. <i>Diabetes</i> , 2013 , 62, 1865-75	0.9	128
48	Oxidative stress and mitochondrial impairment can be separated from lipofuscin accumulation in aged human skeletal muscle. <i>Aging Cell</i> , 2007 , 6, 245-56	9.9	116
47	Rac1 is a novel regulator of contraction-stimulated glucose uptake in skeletal muscle. <i>Diabetes</i> , 2013 , 62, 1139-51	0.9	103
46	Akt and Rac1 signaling are jointly required for insulin-stimulated glucose uptake in skeletal muscle and downregulated in insulin resistance. <i>Cellular Signalling</i> , 2014 , 26, 323-31	4.9	101
45	The muscle-specific protein phosphatase PP1G/R(GL)(G(M)) is essential for activation of glycogen synthase by exercise. <i>Journal of Biological Chemistry</i> , 2001 , 276, 39959-67	5.4	88
44	Decrease in intramuscular lipid droplets and translocation of HSL in response to muscle contraction and epinephrine. <i>Journal of Lipid Research</i> , 2006 , 47, 2392-9	6.3	79
43	Blood vessels and desmin control the positioning of nuclei in skeletal muscle fibers. <i>Journal of Cellular Physiology</i> , 2006 , 209, 874-82	7	71
42	Imaging of insulin signaling in skeletal muscle of living mice shows major role of T-tubules. <i>Diabetes</i> , 2006 , 55, 1300-6	0.9	71
41	The dynamic life of the glycogen granule. <i>Journal of Biological Chemistry</i> , 2018 , 293, 7089-7098	5.4	70
40	Human muscle fibre type-specific regulation of AMPK and downstream targets by exercise. <i>Journal of Physiology</i> , 2015 , 593, 2053-69	3.9	65
39	Dual regulation of muscle glycogen synthase during exercise by activation and compartmentalization. <i>Journal of Biological Chemistry</i> , 2009 , 284, 15692-700	5.4	65
38	Three-dimensional reconstruction of the human skeletal muscle mitochondrial network as a tool to assess mitochondrial content and structural organization. <i>Acta Physiologica</i> , 2015 , 213, 145-55	5.6	60
37	LKB1 regulates lipid oxidation during exercise independently of AMPK. <i>Diabetes</i> , 2013 , 62, 1490-9	0.9	54
36	Cardiac and metabolic changes in long-term high fructose-fat fed rats with severe obesity and extensive intramyocardial lipid accumulation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010 , 298, R1560-70	3.2	53
35	Nicotinamide riboside does not alter mitochondrial respiration, content or morphology in skeletal muscle from obese and insulin-resistant men. <i>Journal of Physiology</i> , 2020 , 598, 731-754	3.9	53
34	Phosphorylation-dependent translocation of glycogen synthase to a novel structure during glycogen resynthesis. <i>Journal of Biological Chemistry</i> , 2005 , 280, 23165-72	5.4	51
33	Effect of lifelong resveratrol supplementation and exercise training on skeletal muscle oxidative capacity in aging mice; impact of PGC-1 α . <i>Experimental Gerontology</i> , 2013 , 48, 1311-8	4.5	47

32	Subcellular localization and mechanism of secretion of vascular endothelial growth factor in human skeletal muscle. <i>FASEB Journal</i> , 2013 , 27, 3496-504	0.9	45
31	Exercise training protects against aging-induced mitochondrial fragmentation in mouse skeletal muscle in a PGC-1 β -dependent manner. <i>Experimental Gerontology</i> , 2017 , 96, 1-6	4.5	44
30	Denervation and high-fat diet reduce insulin signaling in T-tubules in skeletal muscle of living mice. <i>Diabetes</i> , 2008 , 57, 13-23	0.9	32
29	Contraction-induced lipolysis is not impaired by inhibition of hormone-sensitive lipase in skeletal muscle. <i>Journal of Physiology</i> , 2013 , 591, 5141-55	3.9	31
28	Opposite effects of pioglitazone and rosiglitazone on mitochondrial respiration in skeletal muscle of patients with type 2 diabetes. <i>Diabetes, Obesity and Metabolism</i> , 2010 , 12, 806-14	6.7	30
27	Endoplasmic Reticulum Chaperone Glucose-Regulated Protein 94 Is Essential for Proinsulin Handling. <i>Diabetes</i> , 2019 , 68, 747-760	0.9	26
26	Perturbations of NAD salvage systems impact mitochondrial function and energy homeostasis in mouse myoblasts and intact skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018 , 314, E377-E395	6	26
25	An optimized histochemical method to assess skeletal muscle glycogen and lipid stores reveals two metabolically distinct populations of type I muscle fibers. <i>PLoS ONE</i> , 2013 , 8, e77774	3.7	26
24	FAT/CD36 is localized in sarcolemma and in vesicle-like structures in subsarcolemma regions but not in mitochondria. <i>Journal of Lipid Research</i> , 2010 , 51, 1504-12	6.3	24
23	PGC-1 β regulates mitochondrial properties beyond biogenesis with aging and exercise training. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019 , 317, E513-E525	6	20
22	Impaired mitochondrial function in chronically ischemic human heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 304, H1407-14	5.2	20
21	Hepatic mitochondrial oxidative phosphorylation is normal in obese patients with and without type 2 diabetes. <i>Journal of Physiology</i> , 2016 , 594, 4351-8	3.9	18
20	Intracellular compartmentalization of skeletal muscle glycogen metabolism and insulin signalling. <i>Experimental Physiology</i> , 2011 , 96, 385-90	2.4	16
19	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
18	Simvastatin-Induced Insulin Resistance May Be Linked to Decreased Lipid Uptake and Lipid Synthesis in Human Skeletal Muscle: the LIFESTAT Study. <i>Journal of Diabetes Research</i> , 2018 , 2018, 9257874	3.9	14
17	Exercise interventions to prevent and manage type 2 diabetes: physiological mechanisms. <i>Medicine and Sport Science</i> , 2014 , 60, 36-47		13
16	Obesity leads to impairments in the morphology and organization of human skeletal muscle lipid droplets and mitochondrial networks, which are resolved with gastric bypass surgery-induced improvements in insulin sensitivity. <i>Acta Physiologica</i> , 2018 , 224, e13100	5.6	13
15	ADAMTS9 Regulates Skeletal Muscle Insulin Sensitivity Through Extracellular Matrix Alterations. <i>Diabetes</i> , 2019 , 68, 502-514	0.9	11

14	Raman probing of lipids, proteins, and mitochondria in skeletal myocytes: a case study on obesity. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 1158-1165	2.3	10
13	Repeated Excessive Exercise Attenuates the Anti-Inflammatory Effects of Exercise in Older Men. <i>Frontiers in Physiology</i> , 2017 , 8, 407	4.6	10
12	Muscle ceramide content in man is higher in type I than type II fibers and not influenced by glycogen content. <i>European Journal of Applied Physiology</i> , 2010 , 109, 935-43	3.4	10
11	Ceramide content is higher in type I compared to type II fibers in obesity and type 2 diabetes mellitus. <i>Acta Diabetologica</i> , 2013 , 50, 705-12	3.9	9
10	Higher muscle content of perilipin 5 and endothelial lipase protein in trained than untrained middle-aged men. <i>Physiological Research</i> , 2016 , 65, 293-302	2.1	9
9	Effects of immobilization and aerobic training on proteins related to intramuscular substrate storage and metabolism in young and older men. <i>European Journal of Applied Physiology</i> , 2016 , 116, 481-94	3.4	7
8	Macrophage Area Content and Phenotype in Hepatic and Adipose Tissue in Patients with Obesity Undergoing Roux-en-Y Gastric Bypass. <i>Obesity</i> , 2017 , 25, 1921-1931	8	7
7	Ultrastructural myocardial changes in seven cats with spontaneous hypertrophic cardiomyopathy. <i>Journal of Veterinary Cardiology</i> , 2015 , 17 Suppl 1, S220-32	1.9	7
6	Adipocyte size and cellular expression of caveolar proteins analyzed by confocal microscopy. <i>American Journal of Physiology - Cell Physiology</i> , 2013 , 304, C1168-75	5.4	7
5	Differences between glycogen biogenesis in fast- and slow-twitch rabbit muscle. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2003 , 1620, 65-71	4	6
4	Glycogen depletion and resynthesis during 14 days of chronic low-frequency stimulation of rabbit muscle. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2002 , 1573, 68-74	4	6
3	Disturbances of the sarcoplasmic reticulum and transverse tubular system in 24-h electrostimulated fast-twitch skeletal muscle. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2005 , 1668, 64-74	3.8	5
2	Human skeletal muscle perilipin 2 and 3 expression varies with insulin sensitivity. <i>Journal of Biomedical Science and Engineering</i> , 2013 , 06, 65-72	0.7	5
1	Low-Grade Inflammation Is Not Present in Former Obese Males but Adipose Tissue Macrophage Infiltration Persists. <i>Biomedicines</i> , 2020 , 8,	4.8	3