Isis C Kettelhut

List of Publications by Year
in descending order

117 papers	8,132 citations	126708 33 h-index	48187 88 g-index
117 all docs	117 docs citations	117 times ranked	16390 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	The toxic effects of tumor necrosis factor in vivo and their prevention by cyclooxygenase inhibitors.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 4273-4277.	3.3	281
3	Endocrine regulation of protein breakdown in skeletal muscle. Diabetes/metabolism Reviews, 1988, 4, 751-772.	0.2	175
4	Effect of acute cold exposure on norpinephrine turnover rates in rat white adipose tissue. Journal of the Autonomic Nervous System, 1996, 60, 206-208.	1.9	124
5	Sympathetic innervation controls homeostasis of neuromuscular junctions in health and disease. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 746-750.	3.3	123
6	Activation of protein breakdown and prostaglandin E2 production in rat skeletal muscle in fever is signaled by a macrophage product distinct from interleukin 1 or other known monokines.. Journal of Clinical Investigation, 1988, 81, 1378-1383.	3.9	120
7	Tumor necrosis factor can induce fever in rats without activating protein breakdown in muscle or lipolysis in adipose tissue.. Journal of Clinical Investigation, 1988, 81, 1384-1389.	3.9	100
8	Anti-diabetic activity of Bauhinia forficata decoction in streptozotocin-diabetic rats. Journal of Ethnopharmacology, 2002, 81, 191-197.	2.0	99
9	Expression and cellular localization of microRNA-29b and RAX, an activator of the RNA-dependent protein kinase (PKR), in the retina of streptozotocin-induced diabetic rats. Molecular Vision, 2011, 17, 2228-40.	1.1	81
10	Effects of starvation, refeeding, and insulin on energy-linked metabolic processes in catfish (Rhamdia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.8	72
11	Role of different proteolytic pathways in degradation of muscle protein from streptozotocin-diabetic rats. American Journal of Physiology - Endocrinology and Metabolism, 1996, 271, E340-E347.	1.8	67
12	Clenbuterol suppresses proteasomal and lysosomal proteolysis and atrophy-related genes in denervated rat soleus muscles independently of Akt. American Journal of Physiology - Endocrinology and Metabolism, 2012, 302, E123-E133.	1.8	67
13	Adrenergic control of protein metabolism in skeletal muscle. Current Opinion in Clinical Nutrition and Metabolic Care, 2002, 5, 281-286.	1.3	66
14	Role of adrenoceptors and cAMP on the catecholamine-induced inhibition of proteolysis in rat skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2000, 279, E663-E668.	1.8	65
15	Catecholamines inhibit Ca²⁺-dependent proteolysis in rat skeletal muscle through Î²₂-adrenoceptors and cAMP. American Journal of Physiology - Endocrinology and Metabolism, 2001, 281, E449-E454.	1.8	64
16	Low protein diet changes the energetic balance and sympathetic activity in brown adipose tissue of growing rats. Nutrition, 2009, 25, 1186-1192.	1.1	63
17	Increased sympathetic activity in rat white adipose tissue during prolonged fasting. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1997, 272, R656-R661.	0.9	60
18	Schistosoma mansoni: Functional proteasomes are required for development in the vertebrate host. Experimental Parasitology, 2005, 109, 228-236.	0.5	57

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19	Insulin Suppresses Atrophy- and Autophagy-related Genes in Heart Tissue and Cardiomyocytes Through AKT/FOXO Signaling. Hormone and Metabolic Research, 2013, 45, 849-855.	0.7	52
20	Cissus sicyoides (princess vine) in the long-term treatment of streptozotocin-diabetic rats. Biotechnology and Applied Biochemistry, 2003, 37, 15.	1.4	47
21	Glucose contribution to in vivo synthesis of glyceride-glycerol and fatty acids in rats adapted to a high-protein, carbohydrate-free diet. Metabolism: Clinical and Experimental, 1998, 47, 1217-1221.	1.5	46
22	Glucose homeostasis in a carnivorous animal (cat) and in rats fed a high-protein diet. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1980, 239, R437-R444.	0.9	44
23	Effect of sympathetic denervation on the rate of protein synthesis in rat skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2004, 286, E642-E647.	1.8	44
24	Involvement of cAMP/Epac/PI3K-dependent pathway in the antiproteolytic effect of epinephrine on rat skeletal muscle. Molecular and Cellular Endocrinology, 2010, 315, 104-112.	1.6	44
25	Metabolic adaptations induced by long-term fasting in quails. Comparative Biochemistry and Physiology A, Comparative Physiology, 1995, 111, 487-493.	0.7	41
26	Mechanisms Involved in 3â€²,5â€²-Cyclic Adenosine Monophosphate-Mediated Inhibition of the Ubiquitin-Proteasome System in Skeletal Muscle. Endocrinology, 2009, 150, 5395-5404.	1.4	41
27	Expression of glycerokinase in brown adipose tissue is stimulated by the sympathetic nervous system. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2003, 284, R1536-R1541.	0.9	37
28	Pentoxifylline inhibits Ca2+-dependent and ATP proteasome-dependent proteolysis in skeletal muscle from acutely diabetic rats. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E702-E708.	1.8	37
29	Hydrogen peroxide production regulates the mitochondrial function in insulin resistant muscle cells: Effect of catalase overexpression. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 1591-1604.	1.8	37
30	Lack of antidiabetic effect of a Eugenia jambolana leaf decoction on rat streptozotocin diabetes. Brazilian Journal of Medical and Biological Research, 2001, 34, 389-395.	0.7	36
31	Glyceroneogenesis Is Reduced and Glucose Uptake Is Increased in Adipose Tissue from Cafeteria Dietâ€“Fed Rats Independently of Tissue Sympathetic Innervation. Journal of Nutrition, 2006, 136, 2475-2480.	1.3	36
32	Increased Adipose Tissue Glyceroneogenesis in Rats Adapted to a High Protein, Carbohydrate-Free Diet. Hormone and Metabolic Research, 1995, 27, 310-313.	0.7	35
33	Brown adipose tissue glyceroneogenesis is activated in rats exposed to cold. Pflugers Archiv European Journal of Physiology, 2005, 449, 463-469.	1.3	34
34	Activating cAMP/PKA signaling in skeletal muscle suppresses the ubiquitin-proteasome-dependent proteolysis: implications for sympathetic regulation. Journal of Applied Physiology, 2014, 117, 11-19.	1.2	33
35	Insulin/IGF1 signalling mediates the effects of Î²₂â€adrenergic agonist on muscle proteostasis and growth. Journal of Cachexia, Sarcopenia and Muscle, 2019, 10, 455-475.	2.9	33
36	Glucose uptake, glucose transporter GLUT4, and glycolytic enzymes in brown adipose tissue from rats adapted to a high-protein diet. Metabolism: Clinical and Experimental, 2002, 51, 1501-1505.	1.5	30

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37	Effect of short-term cold exposure on skeletal muscle protein breakdown in rats. Journal of Applied Physiology, 2013, 115, 1496-1505.	1.2	30
38	Leucine Supplementation Accelerates Connective Tissue Repair of Injured Tibialis Anterior Muscle. Nutrients, 2014, 6, 3981-4001.	1.7	29
39	Glycerokinase activity in brown adipose tissue: a sympathetic regulation?. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2002, 282, R1185-R1190.	0.9	28
40	Effect of fasting on carbohydrate metabolism in frugivorous bats (Artibeus lituratus and Artibeus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 143, 279-284.	0.7	28
41	A low-protein, high-carbohydrate diet increases de novo fatty acid synthesis from glycerol and glycerokinase content in the liver of growing rats. Nutrition Research, 2013, 33, 494-502.	1.3	28
42	cAMPâ€dependent protein kinase inhibits FoxO activity and regulates skeletal muscle plasticity in mice. FASEB Journal, 2020, 34, 12946-12962.	0.2	27
43	Effect of guanethidine-induced adrenergic blockade on the different proteolytic systems in rat skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 1999, 277, E883-E889.	1.8	26
44	Alterations of cAMP-dependent signaling in dystrophic skeletal muscle. Frontiers in Physiology, 2013, 4, 290.	1.3	26
45	Myostatin promotes distinct responses on protein metabolism of skeletal and cardiac muscle fibers of rodents. Brazilian Journal of Medical and Biological Research, 2017, 50, e6733.	0.7	26
46	Reduced lipogenesis in rats fed a high-protein carbohydrate-free diet. Metabolism: Clinical and Experimental, 1984, 33, 219-223.	1.5	25
47	Calcitonin gene-related peptide inhibits autophagic-lysosomal proteolysis through cAMP/PKA signaling in rat skeletal muscles. International Journal of Biochemistry and Cell Biology, 2016, 72, 40-50.	1.2	25
48	Control of glyceroneogenic activity in rat brown adipose tissue. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2003, 285, R177-R182.	0.9	24
49	Intra-ventromedial hypothalamic injection of cholinergic agents induces rapid hyperglycemia, hyperlactatemia and gluconeogenesis activation in fed, conscious rats. Brain Research, 1993, 626, 339-342.	1.1	23
50	Brown adipose tissue triacylglycerol synthesis in rats adapted to a high-protein, carbohydrate-free diet. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1999, 276, R1003-R1009.	0.9	23
51	Cardiac hyporesponsiveness in severe sepsis is associated with nitric oxide-dependent activation of G protein receptor kinase. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H149-H163.	1.5	22
52	Increased glyceroneogenesis in adipose tissue from rats adapted to a high-protein, carbohydrate-free diet: role of dietary fatty acids. Metabolism: Clinical and Experimental, 2006, 55, 84-89.	1.5	21
53	A Lowâ€Protein, Highâ€Carbohydrate Diet Stimulates Thermogenesis in the Brown Adipose Tissue of Rats via ATFâ€2. Lipids, 2016, 51, 303-310.	0.7	21
54	Relative importance of sympathetic outflow and insulin in the reactivation of brown adipose tissue lipogenesis in rats adapted to a high-protein diet. Metabolism: Clinical and Experimental, 2002, 51, 343-349.	1.5	20

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55	Phosphodiesteraseâ€4 inhibition reduces proteolysis and atrogenes expression in rat skeletal muscles. Muscle and Nerve, 2011, 44, 371-381.	1.0	20
56	CYCLIC ADENOSINE MONOPHOSPHATE-PHOSPHODIESTERASE INHIBITORS REDUCE SKELETAL MUSCLE PROTEIN CATABOLISM IN SEPTIC RATS. Shock, 2007, 27, 687-694.	1.0	19
57	A low-protein, high-carbohydrate diet increases the adipose lipid content without increasing the glycerol-3-phosphate or fatty acid content in growing rats. Canadian Journal of Physiology and Pharmacology, 2010, 88, 1157-1165.	0.7	19
58	Decreased rate of protein synthesis, caspase-3 activity, and ubiquitinâ€“proteasome proteolysis in soleus muscles from growing rats fed a low-protein, high-carbohydrate diet. Canadian Journal of Physiology and Pharmacology, 2014, 92, 445-454.	0.7	19
59	Triacsin C reduces lipid droplet formation and induces mitochondrial biogenesis in primary rat hepatocytes. Journal of Bioenergetics and Biomembranes, 2017, 49, 399-411.	1.0	19
60	Glucose uptake and glycolytic flux in adipose tissue from rats adapted to a high-protein, carbohydrate-free diet. Metabolism: Clinical and Experimental, 2001, 50, 1208-1212.	1.5	17
61	The sympathetic nervous system regulates the three glycerol-3P generation pathways in white adipose tissue of fasted, diabetic and high-protein diet-fed rats. Metabolism: Clinical and Experimental, 2012, 61, 1473-1485.	1.5	16
62	Epinephrine depletion exacerbates the fasting-induced protein breakdown in fast-twitch skeletal muscles. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E1483-E1494.	1.8	16
63	Î±â€™Calcitonin gene-related peptide inhibits autophagy and calpain systems and maintains the stability of neuromuscular junction in denervated muscles. Molecular Metabolism, 2019, 28, 91-106.	3.0	16
64	Dietary protein deficiency reduces lysosomal and nonlysosomal ATP-dependent proteolysis in muscle. American Journal of Physiology - Endocrinology and Metabolism, 1992, 263, E326-E334.	1.8	15
65	Sympathetic activity in brown adipose tissue from rats adapted to a high protein, carbohydrate-free diet. Journal of the Autonomic Nervous System, 1998, 69, 1-5.	1.9	15
66	Abnormalities of glucose metabolism in spontaneously hypertensive rats. Brazilian Journal of Medical and Biological Research, 2000, 33, 1357-1362.	0.7	15
67	Lipolysis and the antilipolytic effect of insulin in adipocytes from rats adapted to a high-protein diet. Metabolism: Clinical and Experimental, 1985, 34, 69-73.	1.5	14
68	Control of adipose tissue lipolysis in ectotherm vertebrates. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1992, 263, R857-R862.	0.9	14
69	Role of ubiquitin-proteasome-dependent proteolytic process in degradation of muscle protein from diabetic rabbits. Molecular and Cellular Biochemistry, 2001, 225, 35-41.	1.4	14
70	Glyceroneogenesis and the supply of glycerol-3-phosphate for glyceride-glycerol synthesis in liver slices of fasted and diabetic rats. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E1352-E1357.	1.8	14
71	Fatty acid synthesis and generation of glycerol-3-phosphate in brown adipose tissue from rats fed a cafeteria diet. Canadian Journal of Physiology and Pharmacology, 2008, 86, 416-423.	0.7	14
72	The inhibitory role of sympathetic nervous system in the Ca2+-dependent proteolysis of skeletal muscle. Brazilian Journal of Medical and Biological Research, 2009, 42, 21-28.	0.7	14

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73	CL 316,243, a selective Î²3-adrenergic agonist, inhibits protein breakdown in rat skeletal muscle. Pflugers Archiv European Journal of Physiology, 2006, 451, 617-624.	1.3	13
74	Increased Glycerideâ€“Glycerol Synthesis in Liver and Brown Adipose Tissue of Rat: Inâ€Vivo Contribution of Glycolysis and Glyceroneogenesis. Lipids, 2012, 47, 773-780.	0.7	13
75	Leucine supplementation does not affect protein turnover and impairs the beneficial effects of endurance training on glucose homeostasis in healthy mice. Amino Acids, 2015, 47, 745-755.	1.2	13
76	Lipolytic response of adipose tissue and metabolic adaptations to long periods of fasting in red tilapia (Oreochromis sp., Teleostei: Cichlidae). Anais Da Academia Brasileira De Ciencias, 2016, 88, 1743-1754.	0.3	13
77	ÃŸ2-Agonists and cAMP inhibit protein degradation in isolated chick (Gallus domesticus) skeletal muscle. British Poultry Science, 2003, 44, 149-154.	0.8	12
78	Chemical sympathectomy further increases muscle protein degradation of acutely diabetic rats. Muscle and Nerve, 2008, 38, 1027-1035.	1.0	12
79	The MicroRNA miR-696 is regulated by SNARK and reduces mitochondrial activity in mouse skeletal muscle through Pgc1Î± inhibition. Molecular Metabolism, 2021, 51, 101226.	3.0	12
80	Effect of cold acclimation on brown adipose tissue fatty acid synthesis in rats adapted to a high-protein, carbohydrate-free diet. Metabolism: Clinical and Experimental, 2001, 50, 1493-1498.	1.5	11
81	Dietary sodium restriction exacerbates age-related changes in rat adipose tissue and liver lipogenesis. Metabolism: Clinical and Experimental, 2003, 52, 1072-1077.	1.5	11
82	Response to Intra- and Extracellular Lipolytic Agents and Hormone-Sensitive Lipase Translocation Are Impaired in Adipocytes from Rats Adapted to a High-Protein, Carbohydrate-Free Diet. Journal of Nutrition, 2004, 134, 2919-2923.	1.3	11
83	Early dystrophin loss is coincident with the transition of compensated cardiac hypertrophy to heart failure. PLoS ONE, 2017, 12, e0189469.	1.1	11
84	Glyconeogenic pathway in isolated skeletal muscles of rats. Canadian Journal of Physiology and Pharmacology, 2002, 80, 162-167.	0.7	9
85	Differential regulation of glyceroneogenesis by glucocorticoids in epididymal and retroperitoneal white adipose tissue from rats. Endocrine, 2017, 57, 287-297.	1.1	9
86	Th17 cell-linked mechanisms mediate vascular dysfunction induced by testosterone in a mouse model of gender-affirming hormone therapy. American Journal of Physiology - Heart and Circulatory Physiology, 2022, 323, H322-H335.	1.5	9
87	Morphological and molecular aspects of immobilization-induced muscle atrophy in rats at different stages of postnatal development: the role of autophagy. Journal of Applied Physiology, 2016, 121, 646-660.	1.2	8
88	Higher insulin sensitivity in EDL muscle of rats fed a low-protein, high-carbohydrate diet inhibits the caspase-3 and ubiquitin-proteasome proteolytic systems but does not increase protein synthesis. Journal of Nutritional Biochemistry, 2016, 34, 89-98.	1.9	8
89	Assessment of the antidiabetic activity of Myrcia uniflora extracts in streptozotocin diabetic rats. Diabetes Research, 1993, 22, 49-57.	0.1	8
90	Urocortin 2 promotes hypertrophy and enhances skeletal muscle function through cAMP and insulin/IGF-1 signaling pathways. Molecular Metabolism, 2022, 60, 101492.	3.0	8

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91	Gluconeogenesis and P-enolpyruvate carboxykinase in liver and kidney of long-term fasted quails. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2000, 170, 373-377.	0.7	7
92	Increase in liver cytosolic lipases activities and VLDL-TAG secretion rate do not prevent the non-alcoholic fatty liver disease in cafeteria diet-fed rats. Biochimie, 2018, 150, 16-22.	1.3	7
93	Oxytocin induces anti-catabolic and anabolic effects on protein metabolism in the female rat oxidative skeletal muscle. Life Sciences, 2021, 279, 119665.	2.0	7
94	Gluconeogenesis and glucose replacement rate during long-term fasting of Japanese quails. Comparative Biochemistry and Physiology A, Comparative Physiology, 1996, 115, 121-125.	0.7	6
95	Effect of oral vanadyl sulfate treatment on serum enzymes and lipids of streptozotocin-diabetic young rats. Molecular and Cellular Biochemistry, 1999, 198, 157-161.	1.4	6
96	Endogenous galectin-3 is required for skeletal muscle repair. Glycobiology, 2021, 31, 1295-1307.	1.3	6
97	Obesity-Induced Dysbiosis Exacerbates IFN-Î³ Production and Pulmonary Inflammation in the Mycobacterium tuberculosis Infection. Cells, 2021, 10, 1732.	1.8	6
98	Acute intermittent hypoxia in rats activates muscle proteolytic pathways through a gluccorticoid-dependent mechanism. Journal of Applied Physiology, 2017, 122, 1114-1124.	1.2	5
99	Activation of adipose tissue glycerokinase contributes to increased white adipose tissue mass in mice fed a high-fat diet. Endocrine, 2020, 69, 79-91.	1.1	5
100	In Vivo Effects of Bothrops jararaca Venom on Metabolic Profile and on Muscle Protein Metabolism in Rats. American Journal of Tropical Medicine and Hygiene, 2008, 79, 771-778.	0.6	5
101	Maternal vitamin D deficiency affects the morphology and function of glycolytic muscle in adult offspring rats. Journal of Cachexia, Sarcopenia and Muscle, 2022, 13, 2175-2187.	2.9	5
102	Rapid activation of gluconeogenesis after intracerebroventricular carbachol. American Journal of Physiology - Endocrinology and Metabolism, 1989, 257, E486-E490.	1.8	4
103	Lipolysis and Glycerokinase Activity in Brown Adipose Tissue of Rat Fed a High Protein, Carbohydrate-Free Diet. Hormone and Metabolic Research, 1994, 26, 51-52.	0.7	4
104	Centrally injected atropine reduces hyperglycemia caused by 2-DG or immobilization stress in awake rats. Physiology and Behavior, 2001, 72, 175-179.	1.0	4
105	Adaptation to a high protein, carbohydrate-free diet induces a marked reduction of fatty acid synthesis and lipogenic enzymes in rat adipose tissue that is rapidly reverted by a balanced diet. Canadian Journal of Physiology and Pharmacology, 2005, 83, 477-482.	0.7	4
106	The central administration of C75, a fatty acid synthase inhibitor, activates sympathetic outflow and thermogenesis in interscapular brown adipose tissue. Pflugers Archiv European Journal of Physiology, 2013, 465, 1687-1699.	1.3	4
107	Adrenodemedullation activates the Ca²⁺-dependent proteolysis in soleus muscles from rats exposed to cold. Journal of Applied Physiology, 2017, 122, 317-326.	1.2	4
108	Identification of Suitable Reference Genes for Quantitative Gene Expression Analysis in Innervated and Denervated Adipose Tissue from Cafeteria Dietâ€Fed Rats. Lipids, 2019, 54, 231-244.	0.7	4

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109	Sympathetic innervation suppresses the autophagic-lysosomal system in brown adipose tissue under basal and cold-stimulated conditions. Journal of Applied Physiology, 2020, 128, 855-871.	1.2	4
110	Calcitonin gene-related peptide exerts inhibitory effects on autophagy in the heart of mice. Peptides, 2021, 146, 170677.	1.2	4
111	Nuclear PKR in retinal neurons in the early stage of diabetic retinopathy in streptozotocinâ€induced diabetic rats. Molecular Medicine Reports, 2021, 24, .	1.1	3
112	Effect of Cyclosporine A on Glucose Interstitial Concentration in Renal Cortex and Medulla from Rats. American Journal of Nephrology, 2006, 26, 163-169.	1.4	1
113	The inhibition of phosphodiesterase 4 reduces skeletal muscle protein catabolism by suppressing autophagy/lysosomal and proteasomal pathways and atrophyâ€specific gene transcription. FASEB Journal, 2010, 24, 801.11.	0.2	1
114	Importance of brown adipose tissue to the thermal effect and weight loss induced by central administration of C75. FASEB Journal, 2011, 25, 1062.2.	0.2	1
115	Mechanisms involved in cAMP mediated inhibition of the Ubiquitinâ€Proteasome system. FASEB Journal, 2008, 22, 962.5.	0.2	0
116	Chronic intermittent hypoxia inhibits proteolysis in juvenile rat skeletal muscle. FASEB Journal, 2008, 22, 962.15.	0.2	0
117	Denervation increase Akt phosphorylation and reduce glyceroneogenesis in white adipose tissue from diabetic rats. FASEB Journal, 2011, 25, 936.1.	0.2	0