

Clinton R Bruce

List of Publications by Year in descending order

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103
papers

9,065
citations

47006

47
h-index

40979

93
g-index

105
all docs

105
docs citations

105
times ranked

13073
citing authors

#	ARTICLE	IF	CITATIONS
1	Brain-derived neurotrophic factor is produced by skeletal muscle cells in response to contraction and enhances fat oxidation via activation of AMP-activated protein kinase. <i>Diabetologia</i> , 2009, 52, 1409-1418.	6.3	535
2	Reactive Oxygen Species Enhance Insulin Sensitivity. <i>Cell Metabolism</i> , 2009, 10, 260-272.	16.2	509
3	HSP72 protects against obesity-induced insulin resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1739-1744.	7.1	477
4	Excess Lipid Availability Increases Mitochondrial Fatty Acid Oxidative Capacity in Muscle. <i>Diabetes</i> , 2007, 56, 2085-2092.	0.6	472
5	Distinct patterns of tissue-specific lipid accumulation during the induction of insulin resistance in mice by high-fat feeding. <i>Diabetologia</i> , 2013, 56, 1638-1648.	6.3	339
6	Intramuscular Heat Shock Protein 72 and Heme Oxygenase-1 mRNA Are Reduced in Patients With Type 2 Diabetes: Evidence That Insulin Resistance Is Associated With a Disturbed Antioxidant Defense Mechanism. <i>Diabetes</i> , 2003, 52, 2338-2345.	0.6	310
7	Overexpression of Carnitine Palmitoyltransferase-1 in Skeletal Muscle Is Sufficient to Enhance Fatty Acid Oxidation and Improve High-Fat Diet-Induced Insulin Resistance. <i>Diabetes</i> , 2009, 58, 550-558.	0.6	295
8	Plasma Lysophosphatidylcholine Levels Are Reduced in Obesity and Type 2 Diabetes. <i>PLoS ONE</i> , 2012, 7, e41456.	2.5	285
9	Interleukin-6-deficient mice develop hepatic inflammation and systemic insulin resistance. <i>Diabetologia</i> , 2010, 53, 2431-2441.	6.3	283
10	Endurance training in obese humans improves glucose tolerance and mitochondrial fatty acid oxidation and alters muscle lipid content. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 291, E99-E107.	3.5	270
11	Ceramides Contained in LDL Are Elevated in Type 2 Diabetes and Promote Inflammation and Skeletal Muscle Insulin Resistance. <i>Diabetes</i> , 2013, 62, 401-410.	0.6	240
12	Blocking IL-6 trans-Signaling Prevents High-Fat Diet-Induced Adipose Tissue Macrophage Recruitment but Does Not Improve Insulin Resistance. <i>Cell Metabolism</i> , 2015, 21, 403-416.	16.2	208
13	The role of adipokines as regulators of skeletal muscle fatty acid metabolism and insulin sensitivity. <i>Acta Physiologica</i> , 2006, 186, 5-16.	3.8	202
14	Muscle Oxidative Capacity Is a Better Predictor of Insulin Sensitivity than Lipid Status. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2003, 88, 5444-5451.	3.6	195
15	Fetuin B Is a Secreted Hepatocyte Factor Linking Steatosis to Impaired Glucose Metabolism. <i>Cell Metabolism</i> , 2015, 22, 1078-1089.	16.2	192
16	Enhancement of 2000-m rowing performance after caffeine ingestion. <i>Medicine and Science in Sports and Exercise</i> , 2000, 32, 1958-1963.	0.4	158
17	Fatty acid metabolism, energy expenditure and insulin resistance in muscle. <i>Journal of Endocrinology</i> , 2014, 220, T61-T79.	2.6	155
18	Activating HSP72 in Rodent Skeletal Muscle Increases Mitochondrial Number and Oxidative Capacity and Decreases Insulin Resistance. <i>Diabetes</i> , 2014, 63, 1881-1894.	0.6	153

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19	Cytokine regulation of skeletal muscle fatty acid metabolism: effect of interleukin-6 and tumor necrosis factor- α . American Journal of Physiology - Endocrinology and Metabolism, 2004, 287, E616-E621.	3.5	149
20	The Stimulatory Effect of Globular Adiponectin on Insulin-Stimulated Glucose Uptake and Fatty Acid Oxidation Is Impaired in Skeletal Muscle From Obese Subjects. Diabetes, 2005, 54, 3154-3160.	0.6	149
21	Disassociation of muscle triglyceride content and insulin sensitivity after exercise training in patients with Type 2 diabetes. Diabetologia, 2004, 47, 23-30.	6.3	148
22	Plasma Sphingosine-1-Phosphate Is Elevated in Obesity. PLoS ONE, 2013, 8, e72449.	2.5	139
23	Metformin counters the insulin-induced suppression of fatty acid oxidation and stimulation of triacylglycerol storage in rodent skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2006, 291, E182-E189.	3.5	128
24	Overexpression of Sphingosine Kinase 1 Prevents Ceramide Accumulation and Ameliorates Muscle Insulin Resistance in High-Fat Diet-Fed Mice. Diabetes, 2012, 61, 3148-3155.	0.6	126
25	Identification of fatty acid translocase on human skeletal muscle mitochondrial membranes: essential role in fatty acid oxidation. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E509-E515.	3.5	115
26	The regulation of glucose metabolism: implications and considerations for the assessment of glucose homeostasis in rodents. American Journal of Physiology - Endocrinology and Metabolism, 2014, 307, E859-E871.	3.5	115
27	Deletion of macrophage migration inhibitory factor protects the heart from severe ischemia-reperfusion injury: A predominant role of anti-inflammation. Journal of Molecular and Cellular Cardiology, 2011, 50, 991-999.	1.9	99
28	PLIN5 deletion remodels intracellular lipid composition and causes insulin resistance in muscle. Molecular Metabolism, 2014, 3, 652-663.	6.5	97
29	Adipose Triglyceride Lipase-Null Mice Are Resistant to High-Fat Diet-Induced Insulin Resistance Despite Reduced Energy Expenditure and Ectopic Lipid Accumulation. Endocrinology, 2011, 152, 48-58.	2.8	94
30	A selective inhibitor of ceramide synthase 1 reveals a novel role in fat metabolism. Nature Communications, 2018, 9, 3165.	12.8	93
31	Regulation of plasma ceramide levels with fatty acid oversupply: evidence that the liver detects and secretes de novo synthesised ceramide. Diabetologia, 2012, 55, 2741-2746.	6.3	88
32	The CDP-Ethanolamine Pathway Regulates Skeletal Muscle Diacylglycerol Content and Mitochondrial Biogenesis without Altering Insulin Sensitivity. Cell Metabolism, 2015, 21, 718-730.	16.2	83
33	Improved 2000-Meter Rowing Performance in Competitive Oarswomen after Caffeine Ingestion. International Journal of Sport Nutrition and Exercise Metabolism, 2000, 10, 464-475.	2.1	78
34	Lipid and insulin infusion-induced skeletal muscle insulin resistance is likely due to metabolic feedback and not changes in IRS-1, Akt, or AS160 phosphorylation. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E67-E75.	3.5	73
35	Regulation of fuel metabolism by preexercise muscle glycogen content and exercise intensity. Journal of Applied Physiology, 2004, 97, 2275-2283.	2.5	71
36	Interleukin-18 Activates Skeletal Muscle AMPK and Reduces Weight Gain and Insulin Resistance in Mice. Diabetes, 2013, 62, 3064-3074.	0.6	71

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37	Disruption of the Class IIa HDAC Corepressor Complex Increases Energy Expenditure and Lipid Oxidation. <i>Cell Reports</i> , 2016, 16, 2802-2810.	6.4	68
38	AMP kinase activation with AICAR simultaneously increases fatty acid and glucose oxidation in resting rat soleus muscle. <i>Journal of Physiology</i> , 2005, 565, 537-546.	2.9	67
39	PGC-1 α gene expression is downregulated by Akt-mediated phosphorylation and nuclear exclusion of FoxO1 in insulin-stimulated skeletal muscle. <i>FASEB Journal</i> , 2005, 19, 2072-2074.	0.5	65
40	Exercise alters the profile of phospholipid molecular species in rat skeletal muscle. <i>Journal of Applied Physiology</i> , 2004, 97, 1823-1829.	2.5	60
41	Overexpression of carnitine palmitoyltransferase I in skeletal muscle in vivo increases fatty acid oxidation and reduces triacylglycerol esterification. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E1231-E1237.	3.5	58
42	Prolonged interleukin-6 administration enhances glucose tolerance and increases skeletal muscle PPAR α and UCP2 expression in rats. <i>Journal of Endocrinology</i> , 2008, 198, 367-374.	2.6	55
43	Treatment of type 2 diabetes with the designer cytokine IC7Fc. <i>Nature</i> , 2019, 574, 63-68.	27.8	55
44	Effect of carbohydrate ingestion on metabolism during running and cycling. <i>Journal of Applied Physiology</i> , 2001, 91, 2125-2134.	2.5	51
45	Deficiency of haematopoietic-cell-derived IL-10 does not exacerbate high-fat-diet-induced inflammation or insulin resistance in mice. <i>Diabetologia</i> , 2011, 54, 888-899.	6.3	50
46	AMPK activity is not essential for an increase in fatty acid oxidation during low-intensity exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 296, E47-E55.	3.5	49
47	Skeletal muscle-specific overproduction of constitutively activated c-Jun N-terminal kinase (JNK) induces insulin resistance in mice. <i>Diabetologia</i> , 2012, 55, 2769-2778.	6.3	49
48	The Sphingosine-1-Phosphate Analog FTY720 Reduces Muscle Ceramide Content and Improves Glucose Tolerance in High Fat-Fed Male Mice. <i>Endocrinology</i> , 2013, 154, 65-76.	2.8	48
49	Application of dynamic metabolomics to examine in vivo skeletal muscle glucose metabolism in the chronically high-fat fed mouse. <i>Biochemical and Biophysical Research Communications</i> , 2015, 462, 27-32.	2.1	47
50	Improvements in insulin resistance with aerobic exercise training: a lipocentric approach. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, 1196-201.	0.4	43
51	AMP kinase activation with AICAR further increases fatty acid oxidation and blunts triacylglycerol hydrolysis in contracting rat soleus muscle. <i>Journal of Physiology</i> , 2005, 565, 547-553.	2.9	42
52	Glucose infusion causes insulin resistance in skeletal muscle of rats without changes in Akt and AS160 phosphorylation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 293, E1358-E1364.	3.5	42
53	ATGL-mediated triglyceride turnover and the regulation of mitochondrial capacity in skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 308, E960-E970.	3.5	42
54	Discordant gene expression in skeletal muscle and adipose tissue of patients with type 2 diabetes: effect of interleukin-6 infusion. <i>Diabetologia</i> , 2006, 49, 1000-1007.	6.3	39

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55	Î±-Melanocyte stimulating hormone promotes muscle glucose uptake via melanocortin 5 receptors. <i>Molecular Metabolism</i> , 2016, 5, 807-822.	6.5	39
56	Postprandial Aminogenic Insulin and Glucagon Secretion Can Stimulate Glucose Flux in Humans. <i>Diabetes</i> , 2019, 68, 939-946.	0.6	39
57	Dietary Regulation of Fat Oxidative Gene Expression in Different Skeletal Muscle Fiber Types. <i>Obesity</i> , 2003, 11, 1471-1479.	4.0	37
58	Adipose Triglyceride Lipase Regulation of Skeletal Muscle Lipid Metabolism and Insulin Responsiveness. <i>Molecular Endocrinology</i> , 2008, 22, 1200-1212.	3.7	36
59	Perilipin 5 Deletion Unmasks an Endoplasmic Reticulum Stress-Fibroblast Growth Factor 21 Axis in Skeletal Muscle. <i>Diabetes</i> , 2018, 67, 594-606.	0.6	36
60	Effects of breaking up sitting on adolescents' postprandial glucose after consuming meals varying in energy: a cross-over randomised trial. <i>Journal of Science and Medicine in Sport</i> , 2018, 21, 280-285.	1.3	35
61	Interaction of Diet and Training on Endurance Performance in Rats. <i>Experimental Physiology</i> , 2001, 86, 499-508.	2.0	33
62	Greater effect of diet than exercise training on the fatty acid profile of rat skeletal muscle. <i>Journal of Applied Physiology</i> , 2004, 96, 974-980.	2.5	33
63	Overexpression of sphingosine kinase 1 in liver reduces triglyceride content in mice fed a low but not high-fat diet. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2015, 1851, 210-219.	2.4	33
64	Lysine post-translational modification of glyceraldehyde-3-phosphate dehydrogenase regulates hepatic and systemic metabolism. <i>FASEB Journal</i> , 2017, 31, 2592-2602.	0.5	31
65	AgRP Neurons Require Carnitine Acetyltransferase to Regulate Metabolic Flexibility and Peripheral Nutrient Partitioning. <i>Cell Reports</i> , 2018, 22, 1745-1759.	6.4	30
66	Evaluation of follistatin as a therapeutic in models of skeletal muscle atrophy associated with denervation and tenotomy. <i>Scientific Reports</i> , 2015, 5, 17535.	3.3	29
67	Phosphatidylserine decarboxylase is critical for the maintenance of skeletal muscle mitochondrial integrity and muscle mass. <i>Molecular Metabolism</i> , 2019, 27, 33-46.	6.5	29
68	GM3 ganglioside and phosphatidylethanolamine-containing lipids are adipose tissue markers of insulin resistance in obese women. <i>International Journal of Obesity</i> , 2016, 40, 706-713.	3.4	28
69	Interaction of exercise and diet on GLUT-4 protein and gene expression in Type I and Type II rat skeletal muscle. <i>Acta Physiologica Scandinavica</i> , 2002, 175, 37-44.	2.2	26
70	Effect Of Training On Activation Of Extracellular Signal-Regulated Kinase 1/2 And P38 Mitogen-Activated Protein Kinase Pathways In Rat Soleus Muscle. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2002, 29, 655-660.	1.9	25
71	Reversing diet-induced metabolic dysregulation by diet switching leads to altered hepatic de novo lipogenesis and glycerolipid synthesis. <i>Scientific Reports</i> , 2016, 6, 27541.	3.3	25
72	The Effect of Ingested Glucose Dose on the Suppression of Endogenous Glucose Production in Humans. <i>Diabetes</i> , 2017, 66, 2400-2406.	0.6	24

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73	Analysis of Mammalian Cell Proliferation and Macromolecule Synthesis Using Deuterated Water and Gas Chromatography-Mass Spectrometry. <i>Metabolites</i> , 2016, 6, 34.	2.9	23
74	Increased liver AGEs induce hepatic injury mediated through an OST48 pathway. <i>Scientific Reports</i> , 2017, 7, 12292.	3.3	22
75	Glucose-6-phosphate dehydrogenase contributes to the regulation of glucose uptake in skeletal muscle. <i>Molecular Metabolism</i> , 2016, 5, 1083-1091.	6.5	19
76	Measurement of postprandial glucose fluxes in response to acute and chronic endurance exercise in healthy humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 314, E503-E511.	3.5	19
77	Skeletal muscle-specific overexpression of heat shock protein 72 improves skeletal muscle insulin-stimulated glucose uptake but does not alter whole body metabolism. <i>Diabetes, Obesity and Metabolism</i> , 2018, 20, 1928-1936.	4.4	18
78	Marked phenotypic differences of endurance performance and exercise-induced oxygen consumption between AMPK and LKB1 deficiency in mouse skeletal muscle: changes occurring in the diaphragm. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 305, E213-E229.	3.5	17
79	Mechanisms of hyperinsulinaemia in apparently healthy non-obese young adults: role of insulin secretion, clearance and action and associations with plasma amino acids. <i>Diabetologia</i> , 2019, 62, 2310-2324.	6.3	17
80	Postexercise muscle glycogen resynthesis in obese insulin-resistant Zucker rats. <i>Journal of Applied Physiology</i> , 2001, 91, 1512-1519.	2.5	16
81	Creatine biosynthesis and transport by the term human placenta. <i>Placenta</i> , 2017, 52, 86-93.	1.5	16
82	Resolution of glucose intolerance in long-term high-fat, high-sucrose-fed mice. <i>Journal of Endocrinology</i> , 2017, 233, 269-279.	2.6	16
83	Translating glucose tolerance data from mice to humans: Insights from stable isotope labelled glucose tolerance tests. <i>Molecular Metabolism</i> , 2021, 53, 101281.	6.5	16
84	Placental creatine metabolism in cases of placental insufficiency and reduced fetal growth. <i>Molecular Human Reproduction</i> , 2019, 25, 495-505.	2.8	15
85	The Effect of Exercise on the Skeletal Muscle Phospholipidome of Rats Fed a High-Fat Diet. <i>International Journal of Molecular Sciences</i> , 2010, 11, 3954-3964.	4.1	14
86	The effect of insulin and exercise on c-Cbl protein abundance and phosphorylation in insulin-resistant skeletal muscle in lean and obese Zucker rats. <i>Diabetologia</i> , 2004, 47, 412-419.	6.3	12
87	AMP-activated protein kinase and muscle insulin resistance. <i>Frontiers in Bioscience - Landmark</i> , 2009, Volume, 4658.	3.0	12
88	InÂvivo cardiac glucose metabolism in the high-fat fed mouse: Comparison of euglycemic-hyperinsulinemic clamp derived measures of glucose uptake with a dynamic metabolomic flux profiling approach. <i>Biochemical and Biophysical Research Communications</i> , 2015, 463, 818-824.	2.1	12
89	Does maternal-fetal transfer of creatine occur in pregnant sheep?. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2017, 313, E75-E83.	3.5	12
90	Urinary sodium is positively associated with urinary free cortisol and total cortisol metabolites in a cross-sectional sample of Australian schoolchildren aged 5-12 years and their mothers. <i>British Journal of Nutrition</i> , 2019, 121, 164-171.	2.3	12

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91	Reduced insulin action in muscle of high fat diet rats over the diurnal cycle is not associated with defective insulin signaling. <i>Molecular Metabolism</i> , 2019, 25, 107-118.	6.5	11
92	Mapping the Associations of the Plasma Lipidome With Insulin Resistance and Response to an Oral Glucose Tolerance Test. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020, 105, e1041-e1055.	3.6	11
93	The Effects of Early-Onset Pre-Eclampsia on Placental Creatine Metabolism in the Third Trimester. <i>International Journal of Molecular Sciences</i> , 2020, 21, 806.	4.1	10
94	Postexercise Muscle Triacylglycerol and Glycogen Metabolism in Obese Insulin-Resistant Zucker Rats. <i>Obesity</i> , 2004, 12, 1158-1165.	4.0	6
95	It's what you do with the fat that matters!. <i>Nature Medicine</i> , 2007, 13, 1137-1138.	30.7	6
96	Endogenous glucose production after sequential meals in humans: evidence for more prolonged suppression after ingestion of a second meal. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E904-E911.	3.5	6
97	Modest changes to glycemic regulation are sufficient to maintain glucose fluxes in healthy young men following overfeeding with a habitual macronutrient composition. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 316, E1061-E1070.	3.5	6
98	Insulin resistance in type 1 diabetes managed with metformin (INTIMET): Study protocol of a double-blind placebo-controlled, randomised trial. <i>Diabetic Medicine</i> , 2021, 38, e14564.	2.3	6
99	I κ B kinase $\hat{1}^2$ (IKK $\hat{1}^2$) does not mediate feedback inhibition of the insulin signalling cascade. <i>Biochemical Journal</i> , 2012, 442, 723-732.	3.7	5
100	UNICORN Babies: Understanding Circulating and Cerebral Creatine Levels of the Preterm Infant. An Observational Study Protocol. <i>Frontiers in Physiology</i> , 2019, 10, 142.	2.8	5
101	Loss of protein kinase D activity demonstrates redundancy in cardiac glucose metabolism and preserves cardiac function in obesity. <i>Molecular Metabolism</i> , 2020, 42, 101105.	6.5	5
102	Autophagy is not involved in lipid accumulation and the development of insulin resistance in skeletal muscle. <i>Biochemical and Biophysical Research Communications</i> , 2021, 534, 533-539.	2.1	4
103	No need to sweat: is dieting enough to alleviate insulin resistance in obesity?. <i>Journal of Physiology</i> , 2009, 587, 5001-5002.	2.9	2