

# Clinton R Bruce

## List of Publications by Citations

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102  
papers

7,365  
citations

44  
h-index

85  
g-index

105  
ext. papers

8,277  
ext. citations

6.8  
avg, IF

5.44  
L-index

#	Paper	IF	Citations
102	Reactive oxygen species enhance insulin sensitivity. <i>Cell Metabolism</i> , <b>2009</b> , 10, 260-72	24.6	442
101	Excess lipid availability increases mitochondrial fatty acid oxidative capacity in muscle: evidence against a role for reduced fatty acid oxidation in lipid-induced insulin resistance in rodents. <i>Diabetes</i> , <b>2007</b> , 56, 2085-92	0.9	420
100	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> , <b>2009</b> , 52, 1409-18	10.3	414
99	HSP72 protects against obesity-induced insulin resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 1739-44	11.5	397
98	Distinct patterns of tissue-specific lipid accumulation during the induction of insulin resistance in mice by high-fat feeding. <i>Diabetologia</i> , <b>2013</b> , 56, 1638-48	10.3	284
97	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> , <b>2003</b> , 52, 2338-45	0.9	264
96	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> , <b>2009</b> , 58, 550-8	0.9	254
95	Interleukin-6-deficient mice develop hepatic inflammation and systemic insulin resistance. <i>Diabetologia</i> , <b>2010</b> , 53, 2431-41	10.3	241
94	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> , <b>2006</b> , 291, E99-E107	6	236
93	Plasma lysophosphatidylcholine levels are reduced in obesity and type 2 diabetes. <i>PLoS ONE</i> , <b>2012</b> , 7, e41456	3.7	210
92	Ceramides contained in LDL are elevated in type 2 diabetes and promote inflammation and skeletal muscle insulin resistance. <i>Diabetes</i> , <b>2013</b> , 62, 401-10	0.9	181
91	Muscle oxidative capacity is a better predictor of insulin sensitivity than lipid status. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2003</b> , 88, 5444-51	5.6	179
90	The role of adipokines as regulators of skeletal muscle fatty acid metabolism and insulin sensitivity. <i>Acta Physiologica</i> , <b>2006</b> , 186, 5-16	5.6	177
89	Blocking IL-6 trans-signaling prevents high-fat diet-induced adipose tissue macrophage recruitment but does not improve insulin resistance. <i>Cell Metabolism</i> , <b>2015</b> , 21, 403-16	24.6	155
88	Disassociation of muscle triglyceride content and insulin sensitivity after exercise training in patients with Type 2 diabetes. <i>Diabetologia</i> , <b>2004</b> , 47, 23-30	10.3	136
87	Fetuin B Is a Secreted Hepatocyte Factor Linking Steatosis to Impaired Glucose Metabolism. <i>Cell Metabolism</i> , <b>2015</b> , 22, 1078-89	24.6	134
86	The stimulatory effect of globular adiponectin on insulin-stimulated glucose uptake and fatty acid oxidation is impaired in skeletal muscle from obese subjects. <i>Diabetes</i> , <b>2005</b> , 54, 3154-60	0.9	133

85	Enhancement of 2000-m rowing performance after caffeine ingestion. <i>Medicine and Science in Sports and Exercise</i> , <b>2000</b> , 32, 1958-63	1.2	127
84	Fatty acid metabolism, energy expenditure and insulin resistance in muscle. <i>Journal of Endocrinology</i> , <b>2014</b> , 220, T61-79	4.7	126
83	Activating HSP72 in rodent skeletal muscle increases mitochondrial number and oxidative capacity and decreases insulin resistance. <i>Diabetes</i> , <b>2014</b> , 63, 1881-94	0.9	122
82	Cytokine regulation of skeletal muscle fatty acid metabolism: effect of interleukin-6 and tumor necrosis factor-alpha. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2004</b> , 287, E616-21 <sup>6</sup>		119
81	Overexpression of sphingosine kinase 1 prevents ceramide accumulation and ameliorates muscle insulin resistance in high-fat diet-fed mice. <i>Diabetes</i> , <b>2012</b> , 61, 3148-55	0.9	109
80	Plasma sphingosine-1-phosphate is elevated in obesity. <i>PLoS ONE</i> , <b>2013</b> , 8, e72449	3.7	107
79	Identification of fatty acid translocase on human skeletal muscle mitochondrial membranes: essential role in fatty acid oxidation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2006</b> , 290, E509-15	6	104
78	Metformin counters the insulin-induced suppression of fatty acid oxidation and stimulation of triacylglycerol storage in rodent skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2006</b> , 291, E182-9	6	101
77	Deletion of macrophage migration inhibitory factor protects the heart from severe ischemia-reperfusion injury: a predominant role of anti-inflammation. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2011</b> , 50, 991-9	5.8	88
76	The regulation of glucose metabolism: implications and considerations for the assessment of glucose homeostasis in rodents. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2014</b> , 307, E859-71	6	82
75	Adipose triglyceride lipase-null mice are resistant to high-fat diet-induced insulin resistance despite reduced energy expenditure and ectopic lipid accumulation. <i>Endocrinology</i> , <b>2011</b> , 152, 48-58	4.8	82
74	PLIN5 deletion remodels intracellular lipid composition and causes insulin resistance in muscle. <i>Molecular Metabolism</i> , <b>2014</b> , 3, 652-63	8.8	78
73	Regulation of plasma ceramide levels with fatty acid oversupply: evidence that the liver detects and secretes de novo synthesised ceramide. <i>Diabetologia</i> , <b>2012</b> , 55, 2741-2746	10.3	68
72	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. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2009</b> , 297, E67-75	6	62
71	PGC-1alpha gene expression is down-regulated by Akt- mediated phosphorylation and nuclear exclusion of FoxO1 in insulin-stimulated skeletal muscle. <i>FASEB Journal</i> , <b>2005</b> , 19, 2072-4	0.9	61
70	Regulation of fuel metabolism by preexercise muscle glycogen content and exercise intensity. <i>Journal of Applied Physiology</i> , <b>2004</b> , 97, 2275-83	3.7	60
69	AMP kinase activation with AICAR simultaneously increases fatty acid and glucose oxidation in resting rat soleus muscle. <i>Journal of Physiology</i> , <b>2005</b> , 565, 537-46	3.9	58
68	The CDP-Ethanolamine Pathway Regulates Skeletal Muscle Diacylglycerol Content and Mitochondrial Biogenesis without Altering Insulin Sensitivity. <i>Cell Metabolism</i> , <b>2015</b> , 21, 718-30	24.6	57

67	Interleukin-18 activates skeletal muscle AMPK and reduces weight gain and insulin resistance in mice. <i>Diabetes</i> , <b>2013</b> , 62, 3064-74	0.9	57
66	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> , <b>2007</b> , 292, E1231-7	6	54
65	Improved 2000-meter rowing performance in competitive oarswomen after caffeine ingestion. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , <b>2000</b> , 10, 464-75	4.4	54
64	Prolonged interleukin-6 administration enhances glucose tolerance and increases skeletal muscle PPARalpha and UCP2 expression in rats. <i>Journal of Endocrinology</i> , <b>2008</b> , 198, 367-74	4.7	53
63	A selective inhibitor of ceramide synthase 1 reveals a novel role in fat metabolism. <i>Nature Communications</i> , <b>2018</b> , 9, 3165	17.4	52
62	Exercise alters the profile of phospholipid molecular species in rat skeletal muscle. <i>Journal of Applied Physiology</i> , <b>2004</b> , 97, 1823-9	3.7	52
61	Disruption of the Class IIa HDAC Corepressor Complex Increases Energy Expenditure and Lipid Oxidation. <i>Cell Reports</i> , <b>2016</b> , 16, 2802-2810	10.6	48
60	Effect of carbohydrate ingestion on metabolism during running and cycling. <i>Journal of Applied Physiology</i> , <b>2001</b> , 91, 2125-34	3.7	47
59	Deficiency of haematopoietic-cell-derived IL-10 does not exacerbate high-fat-diet-induced inflammation or insulin resistance in mice. <i>Diabetologia</i> , <b>2011</b> , 54, 888-99	10.3	45
58	The sphingosine-1-phosphate analog FTY720 reduces muscle ceramide content and improves glucose tolerance in high fat-fed male mice. <i>Endocrinology</i> , <b>2013</b> , 154, 65-76	4.8	43
57	Alpha2-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> , <b>2009</b> , 296, E47-55	6	43
56	Skeletal muscle-specific overproduction of constitutively activated c-Jun N-terminal kinase (JNK) induces insulin resistance in mice. <i>Diabetologia</i> , <b>2012</b> , 55, 2769-2778	10.3	39
55	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> , <b>2007</b> , 293, E1358-64	6	39
54	AMP kinase activation with AICAR further increases fatty acid oxidation and blunts triacylglycerol hydrolysis in contracting rat soleus muscle. <i>Journal of Physiology</i> , <b>2005</b> , 565, 547-53	3.9	39
53	Discordant gene expression in skeletal muscle and adipose tissue of patients with type 2 diabetes: effect of interleukin-6 infusion. <i>Diabetologia</i> , <b>2006</b> , 49, 1000-7	10.3	37
52	Improvements in insulin resistance with aerobic exercise training: a lipocentric approach. <i>Medicine and Science in Sports and Exercise</i> , <b>2004</b> , 36, 1196-201	1.2	36
51	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> , <b>2015</b> , 462, 27-32	3.4	35
50	Adipose triglyceride lipase regulation of skeletal muscle lipid metabolism and insulin responsiveness. <i>Molecular Endocrinology</i> , <b>2008</b> , 22, 1200-12		34

49	Dietary regulation of fat oxidative gene expression in different skeletal muscle fiber types. <i>Obesity</i> , <b>2003</b> , 11, 1471-9		33
48	ATGL-mediated triglyceride turnover and the regulation of mitochondrial capacity in skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2015</b> , 308, E960-70	6	31
47	Treatment of type 2 diabetes with the designer cytokine IC7Fc. <i>Nature</i> , <b>2019</b> , 574, 63-68	50.4	30
46	Greater effect of diet than exercise training on the fatty acid profile of rat skeletal muscle. <i>Journal of Applied Physiology</i> , <b>2004</b> , 96, 974-80	3.7	30
45	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> , <b>2015</b> , 1851, 210-9	5	29
44	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> , <b>2018</b> , 21, 280-285	4.4	28
43	Interaction of diet and training on endurance performance in rats. <i>Experimental Physiology</i> , <b>2001</b> , 86, 499-508	2.4	27
42	Melanocyte stimulating hormone promotes muscle glucose uptake via melanocortin 5 receptors. <i>Molecular Metabolism</i> , <b>2016</b> , 5, 807-822	8.8	26
41	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> , <b>2002</b> , 29, 655-60	3	25
40	Perilipin 5 Deletion Unmasks an Endoplasmic Reticulum Stress-Fibroblast Growth Factor 21 Axis in Skeletal Muscle. <i>Diabetes</i> , <b>2018</b> , 67, 594-606	0.9	24
39	Evaluation of follistatin as a therapeutic in models of skeletal muscle atrophy associated with denervation and tenotomy. <i>Scientific Reports</i> , <b>2015</b> , 5, 17535	4.9	23
38	AgRP Neurons Require Carnitine Acetyltransferase to Regulate Metabolic Flexibility and Peripheral Nutrient Partitioning. <i>Cell Reports</i> , <b>2018</b> , 22, 1745-1759	10.6	21
37	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> , <b>2002</b> , 175, 37-44		20
36	Reversing diet-induced metabolic dysregulation by diet switching leads to altered hepatic de novo lipogenesis and glycerolipid synthesis. <i>Scientific Reports</i> , <b>2016</b> , 6, 27541	4.9	20
35	Postprandial Aminogenic Insulin and Glucagon Secretion Can Stimulate Glucose Flux in Humans. <i>Diabetes</i> , <b>2019</b> , 68, 939-946	0.9	19
34	GM3 ganglioside and phosphatidylethanolamine-containing lipids are adipose tissue markers of insulin resistance in obese women. <i>International Journal of Obesity</i> , <b>2016</b> , 40, 706-13	5.5	18
33	Lysine post-translational modification of glyceraldehyde-3-phosphate dehydrogenase regulates hepatic and systemic metabolism. <i>FASEB Journal</i> , <b>2017</b> , 31, 2592-2602	0.9	17
32	The Effect of Ingested Glucose Dose on the Suppression of Endogenous Glucose Production in Humans. <i>Diabetes</i> , <b>2017</b> , 66, 2400-2406	0.9	17

31	Increased liver AGEs induce hepatic injury mediated through an OST48 pathway. <i>Scientific Reports</i> , <b>2017</b> , 7, 12292	4.9	16
30	Postexercise muscle glycogen resynthesis in obese insulin-resistant Zucker rats. <i>Journal of Applied Physiology</i> , <b>2001</b> , 91, 1512-9	3.7	16
29	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> , <b>2013</b> , 305, E213-29	6	15
28	Analysis of Mammalian Cell Proliferation and Macromolecule Synthesis Using Deuterated Water and Gas Chromatography-Mass Spectrometry. <i>Metabolites</i> , <b>2016</b> , 6,	5.6	15
27	Glucose-6-phosphate dehydrogenase contributes to the regulation of glucose uptake in skeletal muscle. <i>Molecular Metabolism</i> , <b>2016</b> , 5, 1083-1091	8.8	15
26	Phosphatidylserine decarboxylase is critical for the maintenance of skeletal muscle mitochondrial integrity and muscle mass. <i>Molecular Metabolism</i> , <b>2019</b> , 27, 33-46	8.8	14
25	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> , <b>2018</b> , 20, 1928-1936	6.7	13
24	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> , <b>2018</b> , 314, E503-E511 <sup>6</sup>		13
23	In vivo 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> , <b>2015</b> , 463, 818-24	3.4	12
22	AMP-activated protein kinase and muscle insulin resistance. <i>Frontiers in Bioscience - Landmark</i> , <b>2009</b> , 14, 4658-72	2.8	12
21	The effect of exercise on the skeletal muscle phospholipidome of rats fed a high-fat diet. <i>International Journal of Molecular Sciences</i> , <b>2010</b> , 11, 3954-64	6.3	10
20	Resolution of glucose intolerance in long-term high-fat, high-sucrose-fed mice. <i>Journal of Endocrinology</i> , <b>2017</b> , 233, 269-279	4.7	9
19	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> , <b>2004</b> , 47, 412-419	10.3	9
18	Creatine biosynthesis and transport by the term human placenta. <i>Placenta</i> , <b>2017</b> , 52, 86-93	3.4	8
17	Does maternal-fetal transfer of creatine occur in pregnant sheep?. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2017</b> , 313, E75-E83	6	7
16	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> , <b>2019</b> , 62, 2310-2324 <sup>10,2</sup>		7
15	Placental creatine metabolism in cases of placental insufficiency and reduced fetal growth. <i>Molecular Human Reproduction</i> , <b>2019</b> , 25, 495-505	4.4	7
14	Postexercise muscle triacylglycerol and glycogen metabolism in obese insulin-resistant zucker rats. <i>Obesity</i> , <b>2004</b> , 12, 1158-65		6

13	IB kinase [(IKK)] does not mediate feedback inhibition of the insulin signalling cascade. <i>Biochemical Journal</i> , <b>2012</b> , 442, 723-32	3.8	5
12	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> , <b>2019</b> , 121, 164-171	3.6	5
11	Translating glucose tolerance data from mice to humans: Insights from stable isotope labelled glucose tolerance tests. <i>Molecular Metabolism</i> , <b>2021</b> , 53, 101281	8.8	5
10	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> , <b>2018</b> , 315, E904-E911	6	4
9	The Effects of Early-Onset Pre-Eclampsia on Placental Creatine Metabolism in the Third Trimester. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	4
8	Insulin resistance in type 1 diabetes managed with metformin (INTIMET): Study protocol of a double-blind placebo-controlled, randomised trial. <i>Diabetic Medicine</i> , <b>2021</b> , 38, e14564	3.5	4
7	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> , <b>2019</b> , 316, E1061-E1070	6	3
6	UNICORN Babies: Understanding Circulating and Cerebral Creatine Levels of the Preterm Infant. An Observational Study Protocol. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 142	4.6	3
5	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> , <b>2019</b> , 25, 107-118	8.8	2
4	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> , <b>2020</b> , 105,	5.6	2
3	No need to sweat: is dieting enough to alleviate insulin resistance in obesity?. <i>Journal of Physiology</i> , <b>2009</b> , 587, 5001-2	3.9	1
2	Loss of protein kinase D activity demonstrates redundancy in cardiac glucose metabolism and preserves cardiac function in obesity. <i>Molecular Metabolism</i> , <b>2020</b> , 42, 101105	8.8	1
1	Autophagy is not involved in lipid accumulation and the development of insulin resistance in skeletal muscle. <i>Biochemical and Biophysical Research Communications</i> , <b>2021</b> , 534, 533-539	3.4	1