Clinton R Bruce

List of Publications by Year in Descending Order

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	Insulin resistance in type 1 diabetes managed with metformin (INTIMET): Study protocol of a double-blind placebo-controlled, randomised trial. *Diabetic Medicine*, **2021**, 38, e14564	3.5	4
101	Autophagy is not involved in lipid accumulation and the development of insulin resistance in skeletal muscle. *Biochemical and Biophysical Research Communications*, **2021**, 534, 533-539	3.4	1
100	Translating glucose tolerance data from mice to humans: Insights from stable isotope labelled glucose tolerance tests. *Molecular Metabolism*, **2021**, 53, 101281	8.8	5
99	Mapping the Associations of the Plasma Lipidome With Insulin Resistance and Response to an Oral Glucose Tolerance Test. *Journal of Clinical Endocrinology and Metabolism*, **2020**, 105,	5.6	2
98	The Effects of Early-Onset Pre-Eclampsia on Placental Creatine Metabolism in the Third Trimester. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	4
97	Loss of protein kinase D activity demonstrates redundancy in cardiac glucose metabolism and preserves cardiac function in obesity. *Molecular Metabolism*, **2020**, 42, 101105	8.8	1
96	Mechanisms of hyperinsulinaemia in apparently healthy non-obese young adults: role of insulin secretion, clearance and action and associations with plasma amino acids. *Diabetologia*, **2019**, 62, 2310-2324	10.2	7
95	Treatment of type 2 diabetes with the designer cytokine IC7Fc. *Nature*, **2019**, 574, 63-68	50.4	30
94	Reduced insulin action in muscle of high fat diet rats over the diurnal cycle is not associated with defective insulin signaling. *Molecular Metabolism*, **2019**, 25, 107-118	8.8	2
93	Postprandial Aminogenic Insulin and Glucagon Secretion Can Stimulate Glucose Flux in Humans. *Diabetes*, **2019**, 68, 939-946	0.9	19
92	Modest changes to glycemic regulation are sufficient to maintain glucose fluxes in healthy young men following overfeeding with a habitual macronutrient composition. *American Journal of Physiology - Endocrinology and Metabolism*, **2019**, 316, E1061-E1070	6	3
91	UNICORN Babies: Understanding Circulating and Cerebral Creatine Levels of the Preterm Infant. An Observational Study Protocol. *Frontiers in Physiology*, **2019**, 10, 142	4.6	3
90	Placental creatine metabolism in cases of placental insufficiency and reduced fetal growth. *Molecular Human Reproduction*, **2019**, 25, 495-505	4.4	7
89	Phosphatidylserine decarboxylase is critical for the maintenance of skeletal muscle mitochondrial integrity and muscle mass. *Molecular Metabolism*, **2019**, 27, 33-46	8.8	14
88	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. *British Journal of Nutrition*, **2019**, 121, 164-171	3.6	5
87	Skeletal muscle-specific overexpression of heat shock protein 72 improves skeletal muscle insulin-stimulated glucose uptake but does not alter whole body metabolism. *Diabetes, Obesity and Metabolism*, **2018**, 20, 1928-1936	6.7	13
86	AgRP Neurons Require Carnitine Acetyltransferase to Regulate Metabolic Flexibility and Peripheral Nutrient Partitioning. *Cell Reports*, **2018**, 22, 1745-1759	10.6	21

85	Perilipin 5 Deletion Unmasks an Endoplasmic Reticulum Stress-Fibroblast Growth Factor 21 Axis in Skeletal Muscle. *Diabetes*, **2018**, 67, 594-606	0.9	24
84	Effects of breaking up sitting on adolescentsTpostprandial glucose after consuming meals varying in energy: a cross-over randomised trial. *Journal of Science and Medicine in Sport*, **2018**, 21, 280-285	4.4	28
83	Measurement of postprandial glucose fluxes in response to acute and chronic endurance exercise in healthy humans. *American Journal of Physiology - Endocrinology and Metabolism*, **2018**, 314, E503-E511	6	13
82	Endogenous glucose production after sequential meals in humans: evidence for more prolonged suppression after ingestion of a second meal. *American Journal of Physiology - Endocrinology and Metabolism*, **2018**, 315, E904-E911	6	4
81	A selective inhibitor of ceramide synthase 1 reveals a novel role in fat metabolism. *Nature Communications*, **2018**, 9, 3165	17.4	52
80	Creatine biosynthesis and transport by the term human placenta. *Placenta*, **2017**, 52, 86-93	3.4	8
79	Lysine post-translational modification of glyceraldehyde-3-phosphate dehydrogenase regulates hepatic and systemic metabolism. *FASEB Journal*, **2017**, 31, 2592-2602	0.9	17
78	Does maternal-fetal transfer of creatine occur in pregnant sheep?. *American Journal of Physiology - Endocrinology and Metabolism*, **2017**, 313, E75-E83	6	7
77	Resolution of glucose intolerance in long-term high-fat, high-sucrose-fed mice. *Journal of Endocrinology*, **2017**, 233, 269-279	4.7	9
76	Increased liver AGEs induce hepatic injury mediated through an OST48 pathway. *Scientific Reports*, **2017**, 7, 12292	4.9	16
75	The Effect of Ingested Glucose Dose on the Suppression of Endogenous Glucose Production in Humans. *Diabetes*, **2017**, 66, 2400-2406	0.9	17
74	Disruption of the Class IIa HDAC Corepressor Complex Increases Energy Expenditure and Lipid Oxidation. *Cell Reports*, **2016**, 16, 2802-2810	10.6	48
73	GM3 ganglioside and phosphatidylethanolamine-containing lipids are adipose tissue markers of insulin resistance in obese women. *International Journal of Obesity*, **2016**, 40, 706-13	5.5	18
72	Analysis of Mammalian Cell Proliferation and Macromolecule Synthesis Using Deuterated Water and Gas Chromatography-Mass Spectrometry. *Metabolites*, **2016**, 6,	5.6	15
71	Reversing diet-induced metabolic dysregulation by diet switching leads to altered hepatic de novo lipogenesis and glycerolipid synthesis. *Scientific Reports*, **2016**, 6, 27541	4.9	20
70	Glucose-6-phosphate dehydrogenase contributes to the regulation of glucose uptake in skeletal muscle. *Molecular Metabolism*, **2016**, 5, 1083-1091	8.8	15
69	Melanocyte stimulating hormone promotes muscle glucose uptake via melanocortin 5 receptors. *Molecular Metabolism*, **2016**, 5, 807-822	8.8	26
68	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. *Biochemical and Biophysical Research Communications*, **2015**, 463, 818-24	3.4	12

67	Application of dynamic metabolomics to examine in vivo skeletal muscle glucose metabolism in the chronically high-fat fed mouse. *Biochemical and Biophysical Research Communications*, **2015**, 462, 27-32	3.4	35
66	The CDP-Ethanolamine Pathway Regulates Skeletal Muscle Diacylglycerol Content and Mitochondrial Biogenesis without Altering Insulin Sensitivity. *Cell Metabolism*, **2015**, 21, 718-30	24.6	57
65	ATGL-mediated triglyceride turnover and the regulation of mitochondrial capacity in skeletal muscle. *American Journal of Physiology - Endocrinology and Metabolism*, **2015**, 308, E960-70	6	31
64	Fetuin B Is a Secreted Hepatocyte Factor Linking Steatosis to Impaired Glucose Metabolism. *Cell Metabolism*, **2015**, 22, 1078-89	24.6	134
63	Overexpression of sphingosine kinase 1 in liver reduces triglyceride content in mice fed a low but not high-fat diet. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2015**, 1851, 210-9	5	29
62	Evaluation of follistatin as a therapeutic in models of skeletal muscle atrophy associated with denervation and tenotomy. *Scientific Reports*, **2015**, 5, 17535	4.9	23
61	Blocking IL-6 trans-signaling prevents high-fat diet-induced adipose tissue macrophage recruitment but does not improve insulin resistance. *Cell Metabolism*, **2015**, 21, 403-16	24.6	155
60	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, E859-71	6	82
59	Fatty acid metabolism, energy expenditure and insulin resistance in muscle. *Journal of Endocrinology*, **2014**, 220, T61-79	4.7	126
58	PLIN5 deletion remodels intracellular lipid composition and causes insulin resistance in muscle. *Molecular Metabolism*, **2014**, 3, 652-63	8.8	78
57	Activating HSP72 in rodent skeletal muscle increases mitochondrial number and oxidative capacity and decreases insulin resistance. *Diabetes*, **2014**, 63, 1881-94	0.9	122
56	Distinct patterns of tissue-specific lipid accumulation during the induction of insulin resistance in mice by high-fat feeding. *Diabetologia*, **2013**, 56, 1638-48	10.3	284
55	Interleukin-18 activates skeletal muscle AMPK and reduces weight gain and insulin resistance in mice. *Diabetes*, **2013**, 62, 3064-74	0.9	57
54	The sphingosine-1-phosphate analog FTY720 reduces muscle ceramide content and improves glucose tolerance in high fat-fed male mice. *Endocrinology*, **2013**, 154, 65-76	4.8	43
53	Ceramides contained in LDL are elevated in type 2 diabetes and promote inflammation and skeletal muscle insulin resistance. *Diabetes*, **2013**, 62, 401-10	0.9	181
52	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. *American Journal of Physiology - Endocrinology and Metabolism*, **2013**, 305, E213-29	6	15
51	Plasma sphingosine-1-phosphate is elevated in obesity. *PLoS ONE*, **2013**, 8, e72449	3.7	107
50	Overexpression of sphingosine kinase 1 prevents ceramide accumulation and ameliorates muscle insulin resistance in high-fat diet-fed mice. *Diabetes*, **2012**, 61, 3148-55	0.9	109

49	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	10.3	68
48	Skeletal muscle-specific overproduction of constitutively activated c-Jun N-terminal kinase (JNK) induces insulin resistance in mice. *Diabetologia*, **2012**, 55, 2769-2778	10.3	39
47	Plasma lysophosphatidylcholine levels are reduced in obesity and type 2 diabetes. *PLoS ONE*, **2012**, 7, e41456	3.7	210
46	IB kinase [(IKK)]does not mediate feedback inhibition of the insulin signalling cascade. *Biochemical Journal*, **2012**, 442, 723-32	3.8	5
45	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, 991-9	5.8	88
44	Deficiency of haematopoietic-cell-derived IL-10 does not exacerbate high-fat-diet-induced inflammation or insulin resistance in mice. *Diabetologia*, **2011**, 54, 888-99	10.3	45
43	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	4.8	82
42	The effect of exercise on the skeletal muscle phospholipidome of rats fed a high-fat diet. *International Journal of Molecular Sciences*, **2010**, 11, 3954-64	6.3	10
41	Interleukin-6-deficient mice develop hepatic inflammation and systemic insulin resistance. *Diabetologia*, **2010**, 53, 2431-41	10.3	241
40	AMP-activated protein kinase and muscle insulin resistance. *Frontiers in Bioscience - Landmark*, **2009** , 14, 4658-72	2.8	12
39	Alpha2-AMPK activity is not essential for an increase in fatty acid oxidation during low-intensity exercise. *American Journal of Physiology - Endocrinology and Metabolism*, **2009**, 296, E47-55	6	43
38	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, E67-75	6	62
37	Overexpression of carnitine palmitoyltransferase-1 in skeletal muscle is sufficient to enhance fatty acid oxidation and improve high-fat diet-induced insulin resistance. *Diabetes*, **2009**, 58, 550-8	0.9	254
36	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. *Diabetologia*, **2009**, 52, 1409-18	10.3	414
35	No need to sweat: is dieting enough to alleviate insulin resistance in obesity?. *Journal of Physiology*, **2009**, 587, 5001-2	3.9	1
34	Reactive oxygen species enhance insulin sensitivity. *Cell Metabolism*, **2009**, 10, 260-72	24.6	442
33	HSP72 protects against obesity-induced insulin resistance. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 1739-44	11.5	397
32	Prolonged interleukin-6 administration enhances glucose tolerance and increases skeletal muscle PPARalpha and UCP2 expression in rats. *Journal of Endocrinology*, **2008**, 198, 367-74	4.7	53

31	Adipose triglyceride lipase regulation of skeletal muscle lipid metabolism and insulin responsiveness. *Molecular Endocrinology*, **2008**, 22, 1200-12		34
30	Overexpression of carnitine palmitoyltransferase I in skeletal muscle in vivo increases fatty acid oxidation and reduces triacylglycerol esterification. *American Journal of Physiology - Endocrinology and Metabolism*, **2007**, 292, E1231-7	6	54
29	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. *Diabetes*, **2007**, 56, 2085-92	0.9	420
28	Glucose infusion causes insulin resistance in skeletal muscle of rats without changes in Akt and AS160 phosphorylation. *American Journal of Physiology - Endocrinology and Metabolism*, **2007**, 293, E1358-64	6	39
27	Discordant gene expression in skeletal muscle and adipose tissue of patients with type 2 diabetes: effect of interleukin-6 infusion. *Diabetologia*, **2006**, 49, 1000-7	10.3	37
26	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, E182-9	6	101
25	Endurance training in obese humans improves glucose tolerance and mitochondrial fatty acid oxidation and alters muscle lipid content. *American Journal of Physiology - Endocrinology and Metabolism*, **2006**, 291, E99-E107	6	236
24	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, E509-15	6	104
23	The role of adipokines as regulators of skeletal muscle fatty acid metabolism and insulin sensitivity. *Acta Physiologica*, **2006**, 186, 5-16	5.6	177
22	AMP kinase activation with AICAR simultaneously increases fatty acid and glucose oxidation in resting rat soleus muscle. *Journal of Physiology*, **2005**, 565, 537-46	3.9	58
21	AMP kinase activation with AICAR further increases fatty acid oxidation and blunts triacylglycerol hydrolysis in contracting rat soleus muscle. *Journal of Physiology*, **2005**, 565, 547-53	3.9	39
20	PGC-1alpha gene expression is down-regulated by Akt- mediated phosphorylation and nuclear exclusion of FoxO1 in insulin-stimulated skeletal muscle. *FASEB Journal*, **2005**, 19, 2072-4	0.9	61
19	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, 3154-60	0.9	133
18	Exercise alters the profile of phospholipid molecular species in rat skeletal muscle. *Journal of Applied Physiology*, **2004**, 97, 1823-9	3.7	52
17	Greater effect of diet than exercise training on the fatty acid profile of rat skeletal muscle. *Journal of Applied Physiology*, **2004**, 96, 974-80	3.7	30
16	Postexercise muscle triacylglycerol and glycogen metabolism in obese insulin-resistant zucker rats. *Obesity*, **2004**, 12, 1158-65		6
15	Disassociation of muscle triglyceride content and insulin sensitivity after exercise training in patients with Type 2 diabetes. *Diabetologia*, **2004**, 47, 23-30	10.3	136
14	The effect of insulin and exercise on c-Cbl protein abundance and phosphorylation in insulin-resistant skeletal muscle in lean and obese Zucker rats. *Diabetologia*, **2004**, 47, 412-419	10.3	9

13	Cytokine regulation of skeletal muscle fatty acid metabolism: effect of interleukin-6 and tumor necrosis factor-alpha. *American Journal of Physiology - Endocrinology and Metabolism*, **2004**, 287, E616-21	6	119
12	Regulation of fuel metabolism by preexercise muscle glycogen content and exercise intensity. *Journal of Applied Physiology*, **2004**, 97, 2275-83	3.7	60
11	Improvements in insulin resistance with aerobic exercise training: a lipocentric approach. *Medicine and Science in Sports and Exercise*, **2004**, 36, 1196-201	1.2	36
10	Muscle oxidative capacity is a better predictor of insulin sensitivity than lipid status. *Journal of Clinical Endocrinology and Metabolism*, **2003**, 88, 5444-51	5.6	179
9	Dietary regulation of fat oxidative gene expression in different skeletal muscle fiber types. *Obesity*, **2003**, 11, 1471-9		33
8	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. *Diabetes*, **2003**, 52, 2338-45	0.9	264
7	Interaction of exercise and diet on GLUT-4 protein and gene expression in Type I and Type II rat skeletal muscle. *Acta Physiologica Scandinavica*, **2002**, 175, 37-44		20
6	Effect of training on activation of extracellular signal-regulated kinase 1/2 and p38 mitogen-activated protein kinase pathways in rat soleus muscle. *Clinical and Experimental Pharmacology and Physiology*, **2002**, 29, 655-60	3	25
5	Interaction of diet and training on endurance performance in rats. *Experimental Physiology*, **2001**, 86, 499-508	2.4	27
4	Effect of carbohydrate ingestion on metabolism during running and cycling. *Journal of Applied Physiology*, **2001**, 91, 2125-34	3.7	47
3	Postexercise muscle glycogen resynthesis in obese insulin-resistant Zucker rats. *Journal of Applied Physiology*, **2001**, 91, 1512-9	3.7	16
2	Improved 2000-meter rowing performance in competitive oarswomen after caffeine ingestion. *International Journal of Sport Nutrition and Exercise Metabolism*, **2000**, 10, 464-75	4.4	54
1	Enhancement of 2000-m rowing performance after caffeine ingestion. *Medicine and Science in Sports and Exercise*, **2000**, 32, 1958-63	1.2	127