Mark A Febbraio

List of Publications by Citations

279 papers	26,675 citations	91 h-index	155 g-index
307 ext. papers	30,043 ext. citations	8.5 avg, IF	7.14 L-index

#	Paper	IF	Citations
279	Muscles, exercise and obesity: skeletal muscle as a secretory organ. *Nature Reviews Endocrinology*, **2012**, 8, 457-65	15.2	1503
278	Muscle as an endocrine organ: focus on muscle-derived interleukin-6. *Physiological Reviews*, **2008**, 88, 1379-406	47.9	1325
277	Muscle-derived interleukin-6: mechanisms for activation and possible biological roles. *FASEB Journal*, **2002**, 16, 1335-47	0.9	631
276	Interleukin-6 increases insulin-stimulated glucose disposal in humans and glucose uptake and fatty acid oxidation in vitro via AMP-activated protein kinase. *Diabetes*, **2006**, 55, 2688-97	0.9	573
275	Exercise and IL-6 infusion inhibit endotoxin-induced TNF-alpha production in humans. *FASEB Journal*, **2003**, 17, 884-6	0.9	519
274	Interleukin-6 stimulates lipolysis and fat oxidation in humans. *Journal of Clinical Endocrinology and Metabolism*, **2003**, 88, 3005-10	5.6	491
273	Signaling by IL-6 promotes alternative activation of macrophages to limit endotoxemia and obesity-associated resistance to insulin. *Nature Immunology*, **2014**, 15, 423-30	19.1	462
272	Reactive oxygen species enhance insulin sensitivity. *Cell Metabolism*, **2009**, 10, 260-72	24.6	442
271	Exosome-dependent trafficking of HSP70: a novel secretory pathway for cellular stress proteins. *Journal of Biological Chemistry*, **2005**, 280, 23349-55	5.4	432
270	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
269	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
268	Macrophage PPAR gamma is required for normal skeletal muscle and hepatic insulin sensitivity and full antidiabetic effects of thiazolidinediones. *Journal of Clinical Investigation*, **2007**, 117, 1658-69	15.9	380
267	Tumor necrosis factor alpha-induced skeletal muscle insulin resistance involves suppression of AMP-kinase signaling. *Cell Metabolism*, **2006**, 4, 465-74	24.6	331
266	Interleukin-6 production in contracting human skeletal muscle is influenced by pre-exercise muscle glycogen content. *Journal of Physiology*, **2001**, 537, 633-9	3.9	304
265	Interleukin-6 is a novel factor mediating glucose homeostasis during skeletal muscle contraction. *Diabetes*, **2004**, 53, 1643-8	0.9	300
264	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
263	High-density lipoprotein modulates glucose metabolism in patients with type 2 diabetes mellitus. *Circulation*, **2009**, 119, 2103-11	16.7	281

262	IL-6 and TNF-alpha expression in, and release from, contracting human skeletal muscle. *American Journal of Physiology - Endocrinology and Metabolism*, **2002**, 283, E1272-8	6	276
261	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
260	Extracellular Vesicles Provide a Means for Tissue Crosstalk during Exercise. *Cell Metabolism*, **2018**, 27, 237-251.e4	24.6	257
259	The transcription factor IRF4 is essential for TCR affinity-mediated metabolic programming and clonal expansion of T cells. *Nature Immunology*, **2013**, 14, 1155-65	19.1	256
258	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
257	Contraction-induced myokine production and release: is skeletal muscle an endocrine organ?. *Exercise and Sport Sciences Reviews*, **2005**, 33, 114-9	6.7	251
256	Saturated, but not n-6 polyunsaturated, fatty acids induce insulin resistance: role of intramuscular accumulation of lipid metabolites. *Journal of Applied Physiology*, **2006**, 100, 1467-74	3.7	242
255	Interleukin-6-deficient mice develop hepatic inflammation and systemic insulin resistance. *Diabetologia*, **2010**, 53, 2431-41	10.3	241
254	CNTF reverses obesity-induced insulin resistance by activating skeletal muscle AMPK. *Nature Medicine*, **2006**, 12, 541-8	50.5	226
253	Effects of heat stress on physiological responses and exercise performance in elite cyclists. *Journal of Science and Medicine in Sport*, **2000**, 3, 186-93	4.4	216
252	Exercise increases serum Hsp72 in humans. *Cell Stress and Chaperones*, **2001**, 6, 386-93	4	215
251	Evidence that TLR4 Is Not a Receptor for Saturated Fatty Acids but Mediates Lipid-Induced Inflammation by Reprogramming Macrophage Metabolism. *Cell Metabolism*, **2018**, 27, 1096-1110.e5	24.6	210
250	Plasma lysophosphatidylcholine levels are reduced in obesity and type 2 diabetes. *PLoS ONE*, **2012**, 7, e41456	3.7	210
249	Skeletal myocytes are a source of interleukin-6 mRNA expression and protein release during contraction: evidence of fiber type specificity. *FASEB Journal*, **2004**, 18, 992-4	0.9	201
248	Acute IL-6 treatment increases fatty acid turnover in elderly humans in vivo and in tissue culture in vitro. *American Journal of Physiology - Endocrinology and Metabolism*, **2005**, 288, E155-62	6	197
247	Hsp72 preserves muscle function and slows progression of severe muscular dystrophy. *Nature*, **2012**, 484, 394-8	50.4	196
246	Hedgehog partial agonism drives Warburg-like metabolism in muscle and brown fat. *Cell*, **2012**, 151, 414-26	36.2	191
245	Effect of ambient temperature on human skeletal muscle metabolism during fatiguing submaximal exercise. *Journal of Applied Physiology*, **1999**, 86, 902-8	3.7	190

244	Transcription Factor IRF4 Promotes CD8 T Cell Exhaustion and Limits the Development of Memory-like T Cells during Chronic Infection. *Immunity*, **2017**, 47, 1129-1141.e5	32.3	178
243	Circulating monocytes are not the source of elevations in plasma IL-6 and TNF-alpha levels after prolonged running. *American Journal of Physiology - Cell Physiology*, **2001**, 280, C769-74	5.4	171
242	Regulation of HSL serine phosphorylation in skeletal muscle and adipose tissue. *American Journal of Physiology - Endocrinology and Metabolism*, **2006**, 290, E500-8	6	167
241	Effect of heat stress on muscle energy metabolism during exercise. *Journal of Applied Physiology*, **1994**, 77, 2827-31	3.7	166
240	Role of exercise-induced brain-derived neurotrophic factor production in the regulation of energy homeostasis in mammals. *Experimental Physiology*, **2009**, 94, 1153-60	2.4	165
239	Muscle metabolism during exercise and heat stress in trained men: effect of acclimation. *Journal of Applied Physiology*, **1994**, 76, 589-97	3.7	165
238	From cytokine to myokine: the emerging role of interleukin-6 in metabolic regulation. *Immunology and Cell Biology*, **2014**, 92, 331-9	5	162
237	Mitochondrial dysfunction in oocytes of obese mothers: transmission to offspring and reversal by pharmacological endoplasmic reticulum stress inhibitors. *Development (Cambridge)*, **2015**, 142, 681-91	6.6	157
236	Carbohydrate ingestion attenuates the increase in plasma interleukin-6, but not skeletal muscle interleukin-6 mRNA, during exercise in humans. *Journal of Physiology*, **2001**, 533, 585-91	3.9	156
235	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
234	Muscle-derived interleukin-6: lipolytic, anti-inflammatory and immune regulatory effects. *Pflugers Archiv European Journal of Physiology*, **2003**, 446, 9-16	4.6	147
233	The ever-expanding myokinome: discovery challenges and therapeutic implications. *Nature Reviews Drug Discovery*, **2016**, 15, 719-29	64.1	147
232	Muscle-derived interleukin-6--a possible link between skeletal muscle, adipose tissue, liver, and brain. *Brain, Behavior, and Immunity*, **2005**, 19, 371-6	16.6	141
231	Preexercise carbohydrate ingestion, glucose kinetics, and muscle glycogen use: effect of the glycemic index. *Journal of Applied Physiology*, **2000**, 89, 1845-51	3.7	141
230	PI3K(p110 alpha) protects against myocardial infarction-induced heart failure: identification of PI3K-regulated miRNA and mRNA. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2010**, 30, 724-32	9.4	138
229	Cytokine response to eccentric exercise in young and elderly humans. *American Journal of Physiology - Cell Physiology*, **2002**, 283, C289-95	5.4	138
228	Exercise induces hepatosplanchnic release of heat shock protein 72 in humans. *Journal of Physiology*, **2002**, 544, 957-62	3.9	136
227	Glucose ingestion attenuates interleukin-6 release from contracting skeletal muscle in humans. *Journal of Physiology*, **2003**, 549, 607-12	3.9	136

226	HSP72 gene expression progressively increases in human skeletal muscle during prolonged, exhaustive exercise. *Journal of Applied Physiology*, **2000**, 89, 1055-60	3.7	135
225	Fetuin B Is a Secreted Hepatocyte Factor Linking Steatosis to Impaired Glucose Metabolism. *Cell Metabolism*, **2015**, 22, 1078-89	24.6	134
224	Follistatin-mediated skeletal muscle hypertrophy is regulated by Smad3 and mTOR independently of myostatin. *Journal of Cell Biology*, **2012**, 197, 997-1008	7.3	133
223	Effect of fat adaptation and carbohydrate restoration on metabolism and performance during prolonged cycling. *Journal of Applied Physiology*, **2000**, 89, 2413-21	3.7	131
222	Point: Interleukin-6 does have a beneficial role in insulin sensitivity and glucose homeostasis. *Journal of Applied Physiology*, **2007**, 102, 814-6	3.7	129
221	The immunomodulating role of exercise in metabolic disease. *Trends in Immunology*, **2014**, 35, 262-9	14.4	126
220	Interleukin-6 and tumor necrosis factor-alpha are not increased in patients with Type 2 diabetes: evidence that plasma interleukin-6 is related to fat mass and not insulin responsiveness. *Diabetologia*, **2004**, 47, 1029-37	10.3	126
219	Myeloid-specific estrogen receptor alpha deficiency impairs metabolic homeostasis and accelerates atherosclerotic lesion development. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 16457-62	11.5	125
218	Effects of carbohydrate ingestion before and during exercise on glucose kinetics and performance. *Journal of Applied Physiology*, **2000**, 89, 2220-6	3.7	125
217	Apoptosis in skeletal muscle myotubes is induced by ceramides and is positively related to insulin resistance. *American Journal of Physiology - Endocrinology and Metabolism*, **2006**, 291, E1341-50	6	124
216	Influence of sprint training on human skeletal muscle purine nucleotide metabolism. *Journal of Applied Physiology*, **1994**, 76, 1802-9	3.7	123
215	Activating HSP72 in rodent skeletal muscle increases mitochondrial number and oxidative capacity and decreases insulin resistance. *Diabetes*, **2014**, 63, 1881-94	0.9	122
214	Exercise induces a marked increase in plasma follistatin: evidence that follistatin is a contraction-induced hepatokine. *Endocrinology*, **2011**, 152, 164-71	4.8	122
213	Integrated control of hepatic lipogenesis versus glucose production requires FoxO transcription factors. *Nature Communications*, **2014**, 5, 5190	17.4	121
212	Reduced glycogen availability is associated with an elevation in HSP72 in contracting human skeletal muscle. *Journal of Physiology*, **2002**, 538, 911-7	3.9	121
211	Effect of ovarian hormones on mitochondrial enzyme activity in the fat oxidation pathway of skeletal muscle. *American Journal of Physiology - Endocrinology and Metabolism*, **2001**, 281, E803-8	6	119
210	Role of IL-6 in exercise training- and cold-induced UCP1 expression in subcutaneous white adipose tissue. *PLoS ONE*, **2014**, 9, e84910	3.7	117
209	Adrenaline increases skeletal muscle glycogenolysis, pyruvate dehydrogenase activation and carbohydrate oxidation during moderate exercise in humans. *Journal of Physiology*, **2001**, 534, 269-78	3.9	116

208	Heat stress, cytokines, and the immune response to exercise. *Brain, Behavior, and Immunity*, **2005**, 19, 404-12	16.6	114
207	Suppression of plasma free fatty acids upregulates peroxisome proliferator-activated receptor (PPAR) alpha and delta and PPAR coactivator 1alpha in human skeletal muscle, but not lipid regulatory genes. *Journal of Molecular Endocrinology*, **2004**, 33, 533-44	4.5	114
206	Neutrophil-derived S100 calcium-binding proteins A8/A9 promote reticulated thrombocytosis and atherogenesis in diabetes. *Journal of Clinical Investigation*, **2017**, 127, 2133-2147	15.9	114
205	Effect of epinephrine on muscle glycogenolysis during exercise in trained men. *Journal of Applied Physiology*, **1998**, 84, 465-70	3.7	113
204	Effect of creatine supplementation on intramuscular TCr, metabolism and performance during intermittent, supramaximal exercise in humans. *Acta Physiologica Scandinavica*, **1995**, 155, 387-95		113
203	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
202	Muscle metabolites and performance during high-intensity, intermittent exercise. *Journal of Applied Physiology*, **1998**, 84, 1687-91	3.7	108
201	Male-lineage transmission of an acquired metabolic phenotype induced by grand-paternal obesity. *Molecular Metabolism*, **2016**, 5, 699-708	8.8	104
200	Interleukin-6 and insulin sensitivity: friend or foe?. *Diabetologia*, **2004**, 47, 1135-1142	10.3	102
199	IL-18 Production from the NLRP1 Inflammasome Prevents Obesity and Metabolic Syndrome. *Cell Metabolism*, **2016**, 23, 155-64	24.6	101
198	Skeletal muscle phenotype is associated with exercise tolerance in patients with peripheral arterial disease. *Journal of Vascular Surgery*, **2005**, 41, 802-7	3.5	100
197	Cytokine gene expression in human skeletal muscle during concentric contraction: evidence that IL-8, like IL-6, is influenced by glycogen availability. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2004**, 287, R322-7	3.2	100
196	Glucose kinetics and exercise performance during phases of the menstrual cycle: effect of glucose ingestion. *American Journal of Physiology - Endocrinology and Metabolism*, **2001**, 281, E817-25	6	97
195	Acute interleukin-6 administration does not impair muscle glucose uptake or whole-body glucose disposal in healthy humans. *Journal of Physiology*, **2003**, 548, 631-8	3.9	95
194	Phosphoinositide 3-kinase as a novel functional target for the regulation of the insulin signaling pathway by SIRT1. *Molecular and Cellular Endocrinology*, **2011**, 335, 166-76	4.4	94
193	Alterations in energy metabolism during exercise and heat stress. *Sports Medicine*, **2001**, 31, 47-59	10.6	94
192	Effect of prolonged, submaximal exercise and carbohydrate ingestion on monocyte intracellular cytokine production in humans. *Journal of Physiology*, **2000**, 528, 647-55	3.9	93
191	Effect of heat stress on glucose kinetics during exercise. *Journal of Applied Physiology*, **1996**, 81, 1594-7	3.7	92

190	Altering dietary nutrient intake that reduces glycogen content leads to phosphorylation of nuclear p38 MAP kinase in human skeletal muscle: association with IL-6 gene transcription during contraction. *FASEB Journal*, **2004**, 18, 1785-7	0.9	91
189	gp130 receptor ligands as potential therapeutic targets for obesity. *Journal of Clinical Investigation*, **2007**, 117, 841-9	15.9	91
188	Phosphoinositide 3-kinase p110 is a master regulator of exercise-induced cardioprotection and PI3K gene therapy rescues cardiac dysfunction. *Circulation: Heart Failure*, **2012**, 5, 523-34	7.6	89
187	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
186	Ciliary neurotrophic factor suppresses hypothalamic AMP-kinase signaling in leptin-resistant obese mice. *Endocrinology*, **2006**, 147, 3906-14	4.8	86
185	HSP72 is a mitochondrial stress sensor critical for Parkin action, oxidative metabolism, and insulin sensitivity in skeletal muscle. *Diabetes*, **2014**, 63, 1488-505	0.9	85
184	Effect of the ovarian hormones on GLUT4 expression and contraction-stimulated glucose uptake. *American Journal of Physiology - Endocrinology and Metabolism*, **2002**, 282, E1139-46	6	85
183	Examination of 'lipotoxicity' in skeletal muscle of high-fat fed and ob/ob mice. *Journal of Physiology* , **2009**, 587, 1593-605	3.9	84
182	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
181	CHO feeding before prolonged exercise: effect of glycemic index on muscle glycogenolysis and exercise performance. *Journal of Applied Physiology*, **1996**, 81, 1115-20	3.7	82
180	FOXO1 regulates the expression of 4E-BP1 and inhibits mTOR signaling in mammalian skeletal muscle. *Journal of Biological Chemistry*, **2007**, 282, 21176-86	5.4	81
179	Stearoyl CoA desaturase 1 is elevated in obesity but protects against fatty acid-induced skeletal muscle insulin resistance in vitro. *Diabetologia*, **2006**, 49, 3027-37	10.3	80
178	Tissue-specific effects of rosiglitazone and exercise in the treatment of lipid-induced insulin resistance. *Diabetes*, **2007**, 56, 1856-64	0.9	79
177	Effect of pre-cooling, with and without thigh cooling, on strain and endurance exercise performance in the heat. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2001**, 128, 667-77	2.6	79
176	Fatty acids stimulate AMP-activated protein kinase and enhance fatty acid oxidation in L6 myotubes. *Journal of Physiology*, **2006**, 574, 139-47	3.9	78
175	Preclinical Models for Studying NASH-Driven HCC: How Useful Are They?. *Cell Metabolism*, **2019**, 29, 18-26	24.6	78
174	Exercise induces the release of heat shock protein 72 from the human brain in vivo. *Cell Stress and Chaperones*, **2004**, 9, 276-80	4	77
173	The roles of c-Jun NH2-terminal kinases (JNKs) in obesity and insulin resistance. *Journal of Physiology*, **2016**, 594, 267-79	3.9	75

172	Role of interleukins in obesity: implications for metabolic disease. *Trends in Endocrinology and Metabolism*, **2014**, 25, 312-9	8.8	73
171	Contraction-induced interleukin-6 gene transcription in skeletal muscle is regulated by c-Jun terminal kinase/activator protein-1. *Journal of Biological Chemistry*, **2012**, 287, 10771-9	5.4	73
170	Reduced plasma FFA availability increases net triacylglycerol degradation, but not GPAT or HSL activity, in human skeletal muscle. *American Journal of Physiology - Endocrinology and Metabolism*, **2004**, 287, E120-7	6	73
169	Sex-specific adipose tissue imprinting of regulatory T cells. *Nature*, **2020**, 579, 581-585	50.4	72
168	Ciliary neurotrophic factor prevents acute lipid-induced insulin resistance by attenuating ceramide accumulation and phosphorylation of c-Jun N-terminal kinase in peripheral tissues. *Endocrinology*, **2006**, 147, 2077-85	4.8	72
167	Site-specific antiatherogenic effect of the antioxidant ebselen in the diabetic apolipoprotein E-deficient mouse. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2009**, 29, 823-30	9.4	71
166	Vitamin E isoform-specific inhibition of the exercise-induced heat shock protein 72 expression in humans. *Journal of Applied Physiology*, **2006**, 100, 1679-87	3.7	70
165	Effect of carbohydrate or carbohydrate plus medium-chain triglyceride ingestion on cycling time trial performance. *Journal of Applied Physiology*, **2000**, 88, 113-9	3.7	70
164	Reduced glycogen availability is associated with increased AMPKalpha2 activity, nuclear AMPKalpha2 protein abundance, and GLUT4 mRNA expression in contracting human skeletal muscle. *Applied Physiology, Nutrition and Metabolism*, **2006**, 31, 302-12	3	69
163	Glucose ingestion attenuates the exercise-induced increase in circulating heat shock protein 72 and heat shock protein 60 in humans. *Cell Stress and Chaperones*, **2004**, 9, 390-6	4	67
162	Influence of elevated muscle temperature on metabolism during intense, dynamic exercise. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **1996**, 271, R1251-5	3.2	65
161	Fructose stimulated de novo lipogenesis is promoted by inflammation. *Nature Metabolism*, **2020**, 2, 1034-1045	14.6	65
160	Adipose tissue inflammation in glucose metabolism. *Reviews in Endocrine and Metabolic Disorders*, **2014**, 15, 31-44	10.5	64
159	Chaperoning to the metabolic party: The emerging therapeutic role of heat-shock proteins in obesity and type 2 diabetes. *Molecular Metabolism*, **2014**, 3, 781-93	8.8	64
158	Beta-adrenergic stimulation of skeletal muscle HSL can be overridden by AMPK signaling. *FASEB Journal*, **2004**, 18, 1445-6	0.9	64
157	Maternal obesity and diabetes induces latent metabolic defects and widespread epigenetic changes in isogenic mice. *Epigenetics*, **2013**, 8, 602-11	5.7	62
156	Glycogen availability does not affect the TCA cycle or TAN pools during prolonged, fatiguing exercise. *Journal of Applied Physiology*, **2003**, 94, 2181-7	3.7	62
155	The small-molecule BGP-15 protects against heart failure and atrial fibrillation in mice. *Nature Communications*, **2014**, 5, 5705	17.4	61

154	Muscle metabolism during sprint exercise in man: influence of sprint training. *Journal of Science and Medicine in Sport*, **2004**, 7, 314-22	4.4	61
153	17beta-estradiol upregulates the expression of peroxisome proliferator-activated receptor alpha and lipid oxidative genes in skeletal muscle. *Journal of Molecular Endocrinology*, **2003**, 31, 37-45	4.5	61
152	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
151	Skeletal muscle interleukin-6 and tumor necrosis factor-alpha release in healthy subjects and patients with type 2 diabetes at rest and during exercise. *Metabolism: Clinical and Experimental*, **2003**, 52, 939-44	12.7	60
150	Membrane-lipid therapy in operation: the HSP co-inducer BGP-15 activates stress signal transduction pathways by remodeling plasma membrane rafts. *PLoS ONE*, **2011**, 6, e28818	3.7	59
149	Exercise metabolism in 2016: Health benefits of exercise - more than meets the eye!. *Nature Reviews Endocrinology*, **2017**, 13, 72-74	15.2	58
148	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
147	Interleukin-18 activates skeletal muscle AMPK and reduces weight gain and insulin resistance in mice. *Diabetes*, **2013**, 62, 3064-74	0.9	57
146	AMP-activated protein kinase--the fat controller of the energy railroad. *Canadian Journal of Physiology and Pharmacology*, **2006**, 84, 655-65	2.4	57
145	Hepatosplanchnic clearance of interleukin-6 in humans during exercise. *American Journal of Physiology - Endocrinology and Metabolism*, **2003**, 285, E397-402	6	57
144	Hematopoietic cell-restricted deletion of CD36 reduces high-fat diet-induced macrophage infiltration and improves insulin signaling in adipose tissue. *Diabetes*, **2011**, 60, 1100-10	0.9	56
143	Blunting the rise in body temperature reduces muscle glycogenolysis during exercise in humans. *Experimental Physiology*, **1996**, 81, 685-93	2.4	54
142	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
141	Mechanisms of stress-induced cellular HSP72 release: implications for exercise-induced increases in extracellular HSP72. *Exercise Immunology Review*, **2005**, 11, 46-52	8.6	50
140	Rosiglitazone enhances glucose tolerance by mechanisms other than reduction of fatty acid accumulation within skeletal muscle. *Endocrinology*, **2004**, 145, 5665-70	4.8	49
139	Disruption of the Class IIa HDAC Corepressor Complex Increases Energy Expenditure and Lipid Oxidation. *Cell Reports*, **2016**, 16, 2802-2810	10.6	48
138	Defective cholesterol metabolism in haematopoietic stem cells promotes monocyte-driven atherosclerosis in rheumatoid arthritis. *European Heart Journal*, **2018**, 39, 2158-2167	9.5	48
137	Coinhibitory suppression of T cell activation by CD40 protects against obesity and adipose tissue inflammation in mice. *Circulation*, **2014**, 129, 2414-25	16.7	48

136	Hydroximic acid derivatives: pleiotropic HSP co-inducers restoring homeostasis and robustness. *Current Pharmaceutical Design*, **2013**, 19, 309-46	3.3	48
135	Muscle glycogen content and glucose uptake during exercise in humans: influence of prior exercise and dietary manipulation. *Journal of Physiology*, **2002**, 541, 273-81	3.9	48
134	Chronic rosiglitazone treatment restores AMPKalpha2 activity in insulin-resistant rat skeletal muscle. *American Journal of Physiology - Endocrinology and Metabolism*, **2006**, 290, E251-7	6	47
133	Muscle glycogen storage following prolonged exercise: effect of timing of ingestion of high glycemic index food. *Medicine and Science in Sports and Exercise*, **1997**, 29, 220-4	1.2	47
132	Is interleukin-6 receptor blockade the Holy Grail for inflammatory diseases?. *Clinical Pharmacology and Therapeutics*, **2010**, 87, 396-8	6.1	46
131	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
130	The 2009 stock conference report: inflammation, obesity and metabolic disease. *Obesity Reviews*, **2010**, 11, 635-44	10.6	45
129	p32 protein levels are integral to mitochondrial and endoplasmic reticulum morphology, cell metabolism and survival. *Biochemical Journal*, **2013**, 453, 381-91	3.8	44
128	The influence of whole-body vs. torso pre-cooling on physiological strain and performance of high-intensity exercise in the heat. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2001**, 128, 657-66	2.6	44
127	Effect of training status and relative exercise intensity on physiological responses in men. *Medicine and Science in Sports and Exercise*, **2000**, 32, 1648-54	1.2	44
126	Does muscle function and metabolism affect exercise performance in the heat?. *Exercise and Sport Sciences Reviews*, **2000**, 28, 171-6	6.7	44
125	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
124	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
123	Nanoporous Metal-Phenolic Particles as Ultrasound Imaging Probes for Hydrogen Peroxide. *Advanced Healthcare Materials*, **2015**, 4, 2170-2175	10.1	42
122	Effect of Temperature on Muscle Metabolism During Submaximal Exercise in Humans. *Experimental Physiology*, **1999**, 84, 775-784	2.4	42
121	Interleukin-6 attenuates insulin-mediated increases in endothelial cell signaling but augments skeletal muscle insulin action via differential effects on tumor necrosis factor-alpha expression. *Diabetes*, **2009**, 58, 1086-95	0.9	41
120	Effect of adrenergic blockade on lymphocyte cytokine production at rest and during exercise. *American Journal of Physiology - Cell Physiology*, **2001**, 281, C1233-40	5.4	41
119	Skeletal muscle energy metabolism during prolonged, fatiguing exercise. *Journal of Applied Physiology*, **1999**, 87, 2341-7	3.7	41

118	Attenuation of AMPK signaling by ROQUIN promotes T follicular helper cell formation. *ELife*, **2015**, 4,	8.9	40
117	Current knowledge on playing football in hot environments. *Scandinavian Journal of Medicine and Science in Sports*, **2010**, 20 Suppl 3, 161-7	4.6	40
116	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
115	Effect of glycerol-induced hyperhydration on thermoregulation and metabolism during exercise in heat. *International Journal of Sport Nutrition and Exercise Metabolism*, **2001**, 11, 315-33	4.4	39
114	Heat shock proteins and exercise adaptations. Our knowledge thus far and the road still ahead. *Journal of Applied Physiology*, **2016**, 120, 683-91	3.7	38
113	Cytokine Regulation of AMPK signalling. *Frontiers in Bioscience - Landmark*, **2009**, 14, 1902-16	2.8	38
112	Hormone-sensitive lipase is reduced in the adipose tissue of patients with type 2 diabetes mellitus: influence of IL-6 infusion. *Diabetologia*, **2005**, 48, 105-12	10.3	38
111	Effect of caffeine co-ingested with carbohydrate or fat on metabolism and performance in endurance-trained men. *Experimental Physiology*, **2001**, 86, 137-44	2.4	38
110	Effect of CHO ingestion on exercise metabolism and performance in different ambient temperatures. *Medicine and Science in Sports and Exercise*, **1996**, 28, 1380-7	1.2	38
109	Analysis of the liver lipidome reveals insights into the protective effect of exercise on high-fat diet-induced hepatosteatosis in mice. *American Journal of Physiology - Endocrinology and Metabolism*, **2015**, 308, E778-91	6	37
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