

Jane Shearer

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

126
papers

3,200
citations

32
h-index

53
g-index

133
ext. papers

3,813
ext. citations

4.3
avg, IF

5.38
L-index

#	Paper	IF	Citations
126	Increased secretion and expression of myostatin in skeletal muscle from extremely obese women. <i>Diabetes</i> , 2009 , 58, 30-8	0.9	225
125	Low-dose aspartame consumption differentially affects gut microbiota-host metabolic interactions in the diet-induced obese rat. <i>PLoS ONE</i> , 2014 , 9, e109841	3.7	165
124	Myostatin decreases with aerobic exercise and associates with insulin resistance. <i>Medicine and Science in Sports and Exercise</i> , 2010 , 42, 2023-9	1.2	153
123	Ketogenic diet modifies the gut microbiota in a murine model of autism spectrum disorder. <i>Molecular Autism</i> , 2016 , 7, 37	6.5	137
122	Coffee, glucose homeostasis, and insulin resistance: physiological mechanisms and mediators. <i>Applied Physiology, Nutrition and Metabolism</i> , 2008 , 33, 1290-300	3	126
121	Exercise training modifies gut microbiota in normal and diabetic mice. <i>Applied Physiology, Nutrition and Metabolism</i> , 2015 , 40, 749-52	3	117
120	Quinides of roasted coffee enhance insulin action in conscious rats. <i>Journal of Nutrition</i> , 2003 , 133, 3529-32	4.2	113
119	Gender differences in carbohydrate loading are related to energy intake. <i>Journal of Applied Physiology</i> , 2001 , 91, 225-30	3.7	104
118	Metabolomic profiling of dietary-induced insulin resistance in the high fat-fed C57BL/6J mouse. <i>Diabetes, Obesity and Metabolism</i> , 2008 , 10, 950-8	6.7	102
117	Chronic coffee consumption in the diet-induced obese rat: impact on gut microbiota and serum metabolomics. <i>Journal of Nutritional Biochemistry</i> , 2014 , 25, 489-95	6.3	100
116	Metabolomics and Type 2 Diabetes: Translating Basic Research into Clinical Application. <i>Journal of Diabetes Research</i> , 2016 , 2016, 3898502	3.9	83
115	Myostatin-induced inhibition of the long noncoding RNA Malat1 is associated with decreased myogenesis. <i>American Journal of Physiology - Cell Physiology</i> , 2013 , 304, C995-1001	5.4	81
114	The dynamic life of the glycogen granule. <i>Journal of Biological Chemistry</i> , 2018 , 293, 7089-7098	5.4	70
113	Reshaping the gut microbiota: Impact of low calorie sweeteners and the link to insulin resistance?. <i>Physiology and Behavior</i> , 2016 , 164, 488-493	3.5	70
112	New perspectives on the storage and organization of muscle glycogen. <i>Applied Physiology, Nutrition, and Metabolism</i> , 2002 , 27, 179-203		63
111	5-Aminoimidazole-4-carboxamide-1- β -D-ribofuranoside (AICAR) effect on glucose production, but not energy metabolism, is independent of hepatic AMPK in vivo. <i>Journal of Biological Chemistry</i> , 2014 , 289, 5950-9	5.4	52
110	Glucose kinetics and exercise tolerance in mice lacking the GLUT4 glucose transporter. <i>Journal of Physiology</i> , 2007 , 582, 801-12	3.9	50

109	Exercise training mitigates aberrant cardiac protein O-GlcNAcylation in streptozotocin-induced diabetic mice. <i>Life Sciences</i> , 2013 , 92, 657-63	6.8	47
108	Control of muscle glucose uptake: test of the rate-limiting step paradigm in conscious, unrestrained mice. <i>Journal of Physiology</i> , 2005 , 562, 925-35	3.9	47
107	Hexokinase II protein content is a determinant of exercise endurance capacity in the mouse. <i>Journal of Physiology</i> , 2005 , 566, 533-41	3.9	45
106	Impact of dietary fiber supplementation on modulating microbiota-host-metabolic axes in obesity. <i>Journal of Nutritional Biochemistry</i> , 2019 , 64, 228-236	6.3	45
105	Metabolomic response to exercise training in lean and diet-induced obese mice. <i>Journal of Applied Physiology</i> , 2011 , 110, 1311-8	3.7	44
104	Chlorogenic acid differentially affects postprandial glucose and glucose-dependent insulinotropic polypeptide response in rats. <i>Applied Physiology, Nutrition and Metabolism</i> , 2011 , 36, 650-9	3	43
103	Enhanced cardiac protein glycosylation (O-GlcNAc) of selected mitochondrial proteins in rats artificially selected for low running capacity. <i>Physiological Genomics</i> , 2013 , 45, 17-25	3.6	40
102	Novel aspects of skeletal muscle glycogen and its regulation during rest and exercise. <i>Exercise and Sport Sciences Reviews</i> , 2004 , 32, 120-6	6.7	39
101	Partial gene deletion of heart-type fatty acid-binding protein limits the severity of dietary-induced insulin resistance. <i>Diabetes</i> , 2005 , 54, 3133-9	0.9	38
100	Consumption of dietary caffeine and coffee in physically active populations: physiological interactions. <i>Applied Physiology, Nutrition and Metabolism</i> , 2008 , 33, 1301-10	3	37
99	Phosphorylation barriers to skeletal and cardiac muscle glucose uptakes in high-fat fed mice: studies in mice with a 50% reduction of hexokinase II. <i>Diabetes</i> , 2007 , 56, 2476-84	0.9	36
98	Metabolomic Modeling To Monitor Host Responsiveness to Gut Microbiota Manipulation in the BTBR(T+tf/j) Mouse. <i>Journal of Proteome Research</i> , 2016 , 15, 1143-50	5.6	34
97	Differentiating short- and long-term effects of diet in the obese mouse using (1) H-nuclear magnetic resonance metabolomics. <i>Diabetes, Obesity and Metabolism</i> , 2011 , 13, 859-62	6.7	33
96	5-Aminoimidazole-4-carboxamide-1-beta-D-ribofuranoside causes acute hepatic insulin resistance in vivo. <i>Diabetes</i> , 2005 , 54, 355-60	0.9	33
95	Low-Dose Stevia (Rebaudioside A) Consumption Perturbs Gut Microbiota and the Mesolimbic Dopamine Reward System. <i>Nutrients</i> , 2019 , 11,	6.7	32
94	AMP kinase-induced skeletal muscle glucose but not long-chain fatty acid uptake is dependent on nitric oxide. <i>Diabetes</i> , 2004 , 53, 1429-35	0.9	31
93	Energy Drinks: A Contemporary Issues Paper. <i>Current Sports Medicine Reports</i> , 2018 , 17, 65-72	1.9	30
92	Dietary leucine improves whole-body insulin sensitivity independent of body fat in diet-induced obese Sprague-Dawley rats. <i>Journal of Nutritional Biochemistry</i> , 2013 , 24, 1285-94	6.3	30

91	Performance effects and metabolic consequences of caffeine and caffeinated energy drink consumption on glucose disposal. <i>Nutrition Reviews</i> , 2014 , 72 Suppl 1, 121-36	6.4	29
90	Artificial sweeteners and metabolic dysregulation: Lessons learned from agriculture and the laboratory. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2016 , 17, 179-86	10.5	26
89	Exercise training does not correct abnormal cardiac glycogen accumulation in the db/db mouse model of type 2 diabetes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011 , 301, E31-9	6	24
88	Increases in glycogenin and glycogenin mRNA accompany glycogen resynthesis in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 289, E508-14	6	24
87	The ACTN3 R577X Polymorphism Is Associated with Cardiometabolic Fitness in Healthy Young Adults. <i>PLoS ONE</i> , 2015 , 10, e0130644	3.7	23
86	Mesenchymal Stem Cells Shift Mitochondrial Dynamics and Enhance Oxidative Phosphorylation in Recipient Cells. <i>Frontiers in Physiology</i> , 2018 , 9, 1572	4.6	23
85	Myostatin inhibits proliferation and insulin-stimulated glucose uptake in mouse liver cells. <i>Biochemistry and Cell Biology</i> , 2014 , 92, 226-34	3.6	21
84	Maternal low-dose aspartame and stevia consumption with an obesogenic diet alters metabolism, gut microbiota and mesolimbic reward system in rat dams and their offspring. <i>Gut</i> , 2020 , 69, 1807-1817	19.2	20
83	Increased intestinal permeability exacerbates sepsis through reduced hepatic SCD-1 activity and dysregulated iron recycling. <i>Nature Communications</i> , 2020 , 11, 483	17.4	20
82	Glycogenin activity and mRNA expression in response to volitional exhaustion in human skeletal muscle. <i>Journal of Applied Physiology</i> , 2005 , 99, 957-62	3.7	20
81	Tissue Specific Impacts of a Ketogenic Diet on Mitochondrial Dynamics in the BTBR Mouse. <i>Frontiers in Physiology</i> , 2016 , 7, 654	4.6	20
80	Dietary and Supplement-Based Complementary and Alternative Medicine Use in Pediatric Autism Spectrum Disorder. <i>Nutrients</i> , 2019 , 11,	6.7	19
79	Role of O-GlcNAcylation in nutritional sensing, insulin resistance and in mediating the benefits of exercise. <i>Applied Physiology, Nutrition and Metabolism</i> , 2014 , 39, 1205-13	3	19
78	Respirometric oxidative phosphorylation assessment in saponin-permeabilized cardiac fibers. <i>Journal of Visualized Experiments</i> , 2011 ,	1.6	19
77	Heart-type fatty acid-binding protein reciprocally regulates glucose and fatty acid utilization during exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 288, E292-7	6	19
76	Hyperinsulinemic-euglycemic clamp in the conscious rat. <i>Journal of Visualized Experiments</i> , 2011 ,	1.6	18
75	Partial A1 adenosine receptor agonist regulates cardiac substrate utilization in insulin-resistant rats in vivo. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009 , 328, 306-11	4.7	18
74	Evaluation of Dietary Intakes and Supplement Use in Paralympic Athletes. <i>Nutrients</i> , 2017 , 9,	6.7	17

73	AMPK stimulation increases LCFA but not glucose clearance in cardiac muscle in vivo. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004 , 287, E871-7	6	17
72	O-GlcNAc modification is associated with insulin sensitivity in the whole blood of healthy young adult males. <i>Diabetology and Metabolic Syndrome</i> , 2014 , 6, 96	5.6	16
71	Mesenchymal stem cell transplantation for the infarcted heart: therapeutic potential for insulin resistance beyond the heart. <i>Cardiovascular Diabetology</i> , 2013 , 12, 128	8.7	15
70	Portal vein caffeine infusion enhances net hepatic glucose uptake during a glucose load in conscious dogs. <i>Journal of Nutrition</i> , 2004 , 134, 3042-6	4.1	14
69	Impact of intradialytic exercise intensity on urea clearance in hemodialysis patients. <i>Applied Physiology, Nutrition and Metabolism</i> , 2018 , 43, 101-104	3	13
68	Mesenchymal stem cell transplantation for the infarcted heart: a role in minimizing abnormalities in cardiac-specific energy metabolism. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012 , 302, E163-72	6	13
67	Unconventional microarray design reveals the response to obesity is largely tissue specific: analysis of common and divergent responses to diet-induced obesity in insulin-sensitive tissues. <i>Applied Physiology, Nutrition and Metabolism</i> , 2012 , 37, 257-68	3	13
66	Long chain fatty acid uptake in vivo: comparison of [125I]-BMIPP and [3H]-bromopalmitate. <i>Lipids</i> , 2008 , 43, 703-11	1.6	11
65	Metabolic implications of reduced heart-type fatty acid binding protein in insulin resistant cardiac muscle. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2008 , 1782, 586-92	6.9	10
64	Metabolic Framework for the Improvement of Autism Spectrum Disorders by a Modified Ketogenic Diet: A Pilot Study. <i>Journal of Proteome Research</i> , 2020 , 19, 382-390	5.6	10
63	Perturbed Mitochondrial Dynamics Is a Novel Feature of Colitis That Can Be Targeted to Lessen Disease. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2020 , 10, 287-307	7.9	10
62	Plasma-derived cell-free mitochondrial DNA: A novel non-invasive methodology to identify mitochondrial DNA haplogroups in humans. <i>Molecular Genetics and Metabolism</i> , 2018 , 125, 332-337	3.7	10
61	Perturbed mitochondrial dynamics, an emerging aspect of epithelial-microbe interactions. <i>American Journal of Physiology - Renal Physiology</i> , 2020 , 318, G748-G762	5.1	9
60	Methodological and metabolic considerations in the study of caffeine-containing energy drinks. <i>Nutrition Reviews</i> , 2014 , 72 Suppl 1, 137-45	6.4	9
59	Diminishing impairments in glucose uptake, mitochondrial content, and ADP-stimulated oxygen flux by mesenchymal stem cell therapy in the infarcted heart. <i>American Journal of Physiology - Cell Physiology</i> , 2014 , 306, C19-27	5.4	9
58	Enhanced stem cell engraftment and modulation of hepatic reactive oxygen species production in diet-induced obesity. <i>Obesity</i> , 2014 , 22, 721-9	8	9
57	Obesity: Sweetener associated with increased adiposity in young adults. <i>Nature Reviews Endocrinology</i> , 2017 , 13, 443-444	15.2	8
56	Metabolomics reveals the sex-specific effects of the SORT1 low-density lipoprotein cholesterol locus in healthy young adults. <i>Journal of Proteome Research</i> , 2014 , 13, 5063-70	5.6	8

55	Effect of the SORT1 low-density lipoprotein cholesterol locus is sex-specific in a fit, Canadian young-adult population. <i>Applied Physiology, Nutrition and Metabolism</i> , 2013 , 38, 188-93	3	8
54	Evidence for Acute Myocardial and Skeletal Muscle Injury after Serial Transthoracic Shocks in Healthy Swine. <i>PLoS ONE</i> , 2016 , 11, e0162245	3.7	8
53	Ketogenic diet leads to O-GlcNAc modification in the BTBR mouse model of autism. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017 , 1863, 2274-2281	6.9	7
52	Dairy Attenuates Weight Gain to a Similar Extent as Exercise in Rats Fed a High-Fat, High-Sugar Diet. <i>Obesity</i> , 2017 , 25, 1707-1715	8	7
51	Seizure modulation by the gut microbiota and tryptophan-kynurenine metabolism in an animal model of infantile spasms.. <i>EBioMedicine</i> , 2022 , 103833	8.8	7
50	High Aerobic Capacity Mitigates Changes in the Plasma Metabolomic Profile Associated with Aging. <i>Journal of Proteome Research</i> , 2017 , 16, 798-805	5.6	6
49	SORT1 protective allele is associated with attenuated postprandial: lipaemia in young adults. <i>Circulation: Cardiovascular Genetics</i> , 2014 , 7, 576-82		6
48	Evaluation of Dietary Supplement Use in Wheelchair Rugby Athletes. <i>Nutrients</i> , 2018 , 10,	6.7	6
47	The link between brain acidosis, breathing and seizures: a novel mechanism of action for the ketogenic diet in a model of infantile spasms. <i>Brain Communications</i> , 2021 , 3, fcab189	4.5	6
46	Effects of Caffeine on Exertion, Skill Performance, and Physicality in Ice Hockey. <i>International Journal of Sports Physiology and Performance</i> , 2019 , 14, 1422-1429	3.5	5
45	Nutra-ergonomics: influence of nutrition on physical employment standards and the health of workers. <i>Applied Physiology, Nutrition and Metabolism</i> , 2016 , 41, S165-74	3	5
44	Probiotics counteract hepatic steatosis caused by ketogenic diet and upregulate AMPK signaling in a model of infantile epilepsy.. <i>EBioMedicine</i> , 2022 , 103838	8.8	5
43	Examination of Lifestyle Behaviors and Cardiometabolic Risk Factors in University Students Enrolled in Kinesiology Degree Programs. <i>Journal of Strength and Conditioning Research</i> , 2016 , 30, 1137-46	3.2	5
42	Crohn's Disease Pathobiont Adherent-Invasive E coli Disrupts Epithelial Mitochondrial Networks With Implications for Gut Permeability. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2021 , 11, 551-571	7.9	5
41	Genetic characterization of physical activity behaviours in university students enrolled in kinesiology degree programs. <i>Applied Physiology, Nutrition and Metabolism</i> , 2017 , 42, 278-284	3	3
40	Distinct Gut Microbiota and Serum Metabolites in Response to Weight Loss Induced by Either Dairy or Exercise in a Rodent Model of Obesity. <i>Journal of Proteome Research</i> , 2019 , 18, 3867-3875	5.6	3
39	Metabolic consequences of discretionary fortified beverage consumption containing excessive vitamin B levels in adolescents. <i>PLoS ONE</i> , 2019 , 14, e0209913	3.7	3
38	Exercise and Dairy Protein have Distinct Effects on Indices of Liver and Systemic Lipid Metabolism. <i>Obesity</i> , 2020 , 28, 97-105	8	3

37	Hybrid gel electrophoresis using skin fibroblasts to aid in diagnosing mitochondrial disease. <i>Neurology: Genetics</i> , 2019 , 5, e336	3.8	2
36	Side alternating vibration training in patients with mitochondrial disease: a pilot study. <i>Archives of Physiotherapy</i> , 2017 , 7, 10	2.5	2
35	Chlorogenic Acid in Whole Body and Tissue-Specific Glucose Regulation 2015 , 777-785		2
34	Increased oxygen consumption and OXPHOS potential in superhealer mesenchymal stem cells. <i>Cell Regeneration</i> , 2012 , 1, 3	2.5	2
33	Maternal and Cord Blood Metabolite Associations with Gestational Weight Gain and Pregnancy Health Outcomes. <i>Journal of Proteome Research</i> , 2021 , 20, 1630-1638	5.6	2
32	Prebiotic, Probiotic, and Synbiotic Consumption Alter Behavioral Variables and Intestinal Permeability and Microbiota in BTBR Mice. <i>Microorganisms</i> , 2021 , 9,	4.9	2
31	A ketogenic diet affects brain volume and metabolome in juvenile mice. <i>NeuroImage</i> , 2021 , 244, 118542	7.9	2
30	Proteomic Analysis Suggests Altered Mitochondrial Metabolic Profile Associated With Diabetic Cardiomyopathy.. <i>Frontiers in Cardiovascular Medicine</i> , 2022 , 9, 791700	5.4	2
29	A metabolic axis in obesity and type 2 diabetes.. <i>Gut Microbes</i> , 2022 , 14, 2057778	8.8	2
28	A Novel Mitochondrial Fission Inhibitor Ameliorates DSS and DNBS Induced Murine Colitis. <i>FASEB Journal</i> , 2018 , 32, 871.4	0.9	1
27	Exercise training modifies gut bacterial composition in normal and diabetic mice (LB434). <i>FASEB Journal</i> , 2014 , 28, LB434	0.9	1
26	Metabolic and Gut Microbiota Responses to Sourdough Pasta Consumption in Overweight and Obese Adults. <i>Frontiers in Nutrition</i> , 2020 , 7, 615003	6.2	1
25	Gut-based manipulations spur hippocampal mitochondrial bioenergetics in a model of pediatric epilepsy.. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2022 , 166446	6.9	1
24	Targeted gut microbiota manipulation attenuates seizures in a model of infantile spasms syndrome. <i>JCI Insight</i> , 2022 , 7,	9.9	1
23	STIMULANT-CONTAINING ENERGY DRINKS. <i>ACSM® Health and Fitness Journal</i> , 2018 , 22, 17-21	0.9	
22	Effect of supplementation with select human milk oligosaccharides on artificially reared newborn rats.. <i>British Journal of Nutrition</i> , 2021 , 1-26	3.6	
21	Insulin Resistance Induced Elevations in Cardiac Glycogen are not Attenuated by Regular Exercise. <i>FASEB Journal</i> , 2006 , 20, A393	0.9	
20	Rebuttal to Abram Katz's Letter To The Editor. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006 , 290, E758-E759	6	

19	Decreased mitochondrial enzyme content in adipose tissue after the consumption of a high fat diet is associated with oxidative stress. <i>FASEB Journal</i> , 2007 , 21, A456	0.9
18	Diferuloylquinide is converted to diferuloylquinic acid and other phenolic compounds during digestion and/or metabolism in rats.. <i>FASEB Journal</i> , 2008 , 22, 889.13	0.9
17	Artificially Sweetened Vitamin Drink Consumption Reduces Insulin Sensitivity and Alters One-Carbon, B-Vitamin Dependent Metabolism in Adolescents. <i>FASEB Journal</i> , 2018 , 32, 767.8	0.9
16	Evaluation of Dietary Intakes and Supplement Use in Elite Paralympic Athletes. <i>FASEB Journal</i> , 2018 , 32, 724.4	0.9
15	Inhibition of Pathological Mitochondrial Fission Restores DSS Associated Respiratory Impairments in an Intestinal Epithelial Cell Line. <i>FASEB Journal</i> , 2018 , 32, 618.4	0.9
14	Dietary Supplement Based Complementary and Alternative Medicine Use in Pediatric Autism: Physician Based Perception, Knowledge and Involvement. <i>FASEB Journal</i> , 2018 , 32, 682.8	0.9
13	Independent but Synergistic Effects of Dairy and Exercise Training on Gut Microbiota, Serum Metabolomics and Weight Gain Attenuation in Obese Rats. <i>FASEB Journal</i> , 2018 , 32, 855.29	0.9
12	The SORT1 risk allele is associated with exaggerated postprandial lipaemia in young adults (383.5). <i>FASEB Journal</i> , 2014 , 28, 383.5	0.9
11	Exploring O-GlcNAc modification of whole blood in healthy young adult males: relation to insulin sensitivity, anthropometric and metabolic markers (767.4). <i>FASEB Journal</i> , 2014 , 28, 767.4	0.9
10	Reduced mitochondrial respiration and improved coupling in infarcted heart following stem cell therapy. <i>FASEB Journal</i> , 2010 , 24, 660.2	0.9
9	Modulatory effects of mesenchymal stem cells on hepatic mitochondrial reactive oxygen species production in dietary-induced insulin resistance. <i>FASEB Journal</i> , 2012 , 26, 405.5	0.9
8	Elevated oxygen utilization and superior energetic reserve in superhealer mesenchymal stem cells. <i>FASEB Journal</i> , 2012 , 26, 887.7	0.9
7	Paradoxical reduction in cardiac O-GlcNAcylation following short-term high fat feeding. <i>FASEB Journal</i> , 2012 , 26, 565.15	0.9
6	Targeted protein glycosylation (O-GlcNAc) of mitochondrial proteins in rats selected for low running capacity. <i>FASEB Journal</i> , 2012 , 26, 565.11	0.9
5	Impact of dietary induced fatty liver on mitochondrial oxidative phosphorylation. <i>FASEB Journal</i> , 2013 , 27, 1209.21	0.9
4	ACTN3 genotype predicts metabolic, anthropometric and cardiovascular phenotypes in a young, healthy population (711.8). <i>FASEB Journal</i> , 2014 , 28, 711.8	0.9
3	Intravenous mesenchymal stem cell administration spurs endogenous hepatic mitochondrial gene expression in the diet-induced obese mouse (693.10). <i>FASEB Journal</i> , 2014 , 28, 693.10	0.9
2	Impact of experimental colitis on mitochondrial bioenergetics in intestinal epithelial cells.. <i>Scientific Reports</i> , 2022 , 12, 7453	4.9

- 1 Addition of Prebiotics to the Ketogenic Diet Improves Metabolic Profile but Does Not Affect Seizures in a Rodent Model of Infantile Spasms Syndrome. *Nutrients*, **2022**, 14, 2210 6.7