

Christopher B Newgard

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.

191
papers

22,131
citations

65
h-index

148
g-index

202
ext. papers

26,342
ext. citations

10.8
avg, IF

6.98
L-index

#	Paper	IF	Citations
191	Gut microbiota from twins discordant for obesity modulate metabolism in mice. <i>Science</i> , 2013 , 341, 1241-1244	33.4	2251
190	A branched-chain amino acid-related metabolic signature that differentiates obese and lean humans and contributes to insulin resistance. <i>Cell Metabolism</i> , 2009 , 9, 311-26	24.6	2050
189	Mitochondrial overload and incomplete fatty acid oxidation contribute to skeletal muscle insulin resistance. <i>Cell Metabolism</i> , 2008 , 7, 45-56	24.6	1378
188	SIRT3 regulates mitochondrial fatty-acid oxidation by reversible enzyme deacetylation. <i>Nature</i> , 2010 , 464, 121-5	50.4	1143
187	Mechanisms of disease: Molecular and metabolic mechanisms of insulin resistance and beta-cell failure in type 2 diabetes. <i>Nature Reviews Molecular Cell Biology</i> , 2008 , 9, 193-205	48.7	853
186	Interplay between lipids and branched-chain amino acids in development of insulin resistance. <i>Cell Metabolism</i> , 2012 , 15, 606-14	24.6	662
185	SIRT3 deficiency and mitochondrial protein hyperacetylation accelerate the development of the metabolic syndrome. <i>Molecular Cell</i> , 2011 , 44, 177-90	17.6	568
184	Metabolic coupling factors in pancreatic beta-cell signal transduction. <i>Annual Review of Biochemistry</i> , 1995 , 64, 689-719	29.1	474
183	Circadian clock NAD ⁺ cycle drives mitochondrial oxidative metabolism in mice. <i>Science</i> , 2013 , 342, 1243-1247	33.3	419
182	Gut bacteria that prevent growth impairments transmitted by microbiota from malnourished children. <i>Science</i> , 2016 , 351,	33.3	406
181	SIRT5 regulates the mitochondrial lysine succinylome and metabolic networks. <i>Cell Metabolism</i> , 2013 , 18, 920-33	24.6	399
180	The impact of a consortium of fermented milk strains on the gut microbiome of gnotobiotic mice and monozygotic twins. <i>Science Translational Medicine</i> , 2011 , 3, 106ra106	17.5	384
179	Hepatic expression of malonyl-CoA decarboxylase reverses muscle, liver and whole-animal insulin resistance. <i>Nature Medicine</i> , 2004 , 10, 268-74	50.5	379
178	Sialylated Milk Oligosaccharides Promote Microbiota-Dependent Growth in Models of Infant Undernutrition. <i>Cell</i> , 2016 , 164, 859-71	56.2	370
177	Peroxisome proliferator-activated receptor-gamma co-activator 1alpha-mediated metabolic remodeling of skeletal myocytes mimics exercise training and reverses lipid-induced mitochondrial inefficiency. <i>Journal of Biological Chemistry</i> , 2005 , 280, 33588-98	5.4	366
176	Metabolomics and Metabolic Diseases: Where Do We Stand?. <i>Cell Metabolism</i> , 2017 , 25, 43-56	24.6	339
175	Association of a peripheral blood metabolic profile with coronary artery disease and risk of subsequent cardiovascular events. <i>Circulation: Cardiovascular Genetics</i> , 2010 , 3, 207-14		313

174	Relationships between circulating metabolic intermediates and insulin action in overweight to obese, inactive men and women. <i>Diabetes Care</i> , 2009 , 32, 1678-83	14.6	305
173	Metabolomics applied to diabetes research: moving from information to knowledge. <i>Diabetes</i> , 2009 , 58, 2429-43	0.9	280
172	Differential metabolic impact of gastric bypass surgery versus dietary intervention in obese diabetic subjects despite identical weight loss. <i>Science Translational Medicine</i> , 2011 , 3, 80re2	17.5	271
171	Leptin therapy in insulin-deficient type I diabetes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 4813-9	11.5	258
170	Metabolomic profiling for the identification of novel biomarkers and mechanisms related to common cardiovascular diseases: form and function. <i>Circulation</i> , 2012 , 126, 1110-20	16.7	252
169	Catabolic Defect of Branched-Chain Amino Acids Promotes Heart Failure. <i>Circulation</i> , 2016 , 133, 2038-49	16.7	233
168	¹³ C NMR isotopomer analysis reveals a connection between pyruvate cycling and glucose-stimulated insulin secretion (GSIS). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 2708-13	11.5	225
167	Baseline metabolomic profiles predict cardiovascular events in patients at risk for coronary artery disease. <i>American Heart Journal</i> , 2012 , 163, 844-850.e1	4.9	215
166	Metabolic cycling in control of glucose-stimulated insulin secretion. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008 , 295, E1287-97	6	182
165	The Gut Microbiota Modulates Energy Metabolism in the Hibernating Brown Bear <i>Ursus arctos</i> . <i>Cell Reports</i> , 2016 , 14, 1655-1661	10.6	169
164	A pyruvate cycling pathway involving cytosolic NADP-dependent isocitrate dehydrogenase regulates glucose-stimulated insulin secretion. <i>Journal of Biological Chemistry</i> , 2006 , 281, 30593-602	5.4	169
163	Effects of microbiota-directed foods in gnotobiotic animals and undernourished children. <i>Science</i> , 2019 , 365,	33.3	160
162	Genetic networks of liver metabolism revealed by integration of metabolic and transcriptional profiling. <i>PLoS Genetics</i> , 2008 , 4, e1000034	6	158
161	Branched chain amino acids are novel biomarkers for discrimination of metabolic wellness. <i>Metabolism: Clinical and Experimental</i> , 2013 , 62, 961-9	12.7	148
160	Cardiovascular Metabolomics. <i>Circulation Research</i> , 2018 , 122, 1238-1258	15.7	144
159	Divergent effects of glucose and fructose on hepatic lipogenesis and insulin signaling. <i>Journal of Clinical Investigation</i> , 2017 , 127, 4059-4074	15.9	143
158	Metabolomic profile associated with insulin resistance and conversion to diabetes in the Insulin Resistance Atherosclerosis Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015 , 100, E463-8	5.6	141
157	Branched-chain amino acid restriction in Zucker-fatty rats improves muscle insulin sensitivity by enhancing efficiency of fatty acid oxidation and acyl-glycine export. <i>Molecular Metabolism</i> , 2016 , 5, 538-551	8.8	139

156	Absence of the SRC-2 coactivator results in a glycogenopathy resembling Von Gierke's disease. <i>Science</i> , 2008 , 322, 1395-9	33.3	134
155	The Nkx6.1 homeodomain transcription factor suppresses glucagon expression and regulates glucose-stimulated insulin secretion in islet beta cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 7297-302	11.5	129
154	The mitochondrial citrate/isocitrate carrier plays a regulatory role in glucose-stimulated insulin secretion. <i>Journal of Biological Chemistry</i> , 2006 , 281, 35624-32	5.4	126
153	Molecular or pharmacologic perturbation of the link between glucose and lipid metabolism is without effect on glucose-stimulated insulin secretion. A re-evaluation of the long-chain acyl-CoA hypothesis. <i>Journal of Biological Chemistry</i> , 1998 , 273, 16146-54	5.4	126
152	Metabolomic profiling reveals distinct patterns of myocardial substrate use in humans with coronary artery disease or left ventricular dysfunction during surgical ischemia/reperfusion. <i>Circulation</i> , 2009 , 119, 1736-46	16.7	122
151	High heritability of metabolomic profiles in families burdened with premature cardiovascular disease. <i>Molecular Systems Biology</i> , 2009 , 5, 258	12.2	121
150	The BCKDH Kinase and Phosphatase Integrate BCAA and Lipid Metabolism via Regulation of ATP-Citrate Lyase. <i>Cell Metabolism</i> , 2018 , 27, 1281-1293.e7	24.6	115
149	Compensatory responses to pyruvate carboxylase suppression in islet beta-cells. Preservation of glucose-stimulated insulin secretion. <i>Journal of Biological Chemistry</i> , 2006 , 281, 22342-22351	5.4	112
148	Isocitrate-to-SENK1 signaling amplifies insulin secretion and rescues dysfunctional β cells. <i>Journal of Clinical Investigation</i> , 2015 , 125, 3847-60	15.9	109
147	Insulin resistance and altered systemic glucose metabolism in mice lacking Nur77. <i>Diabetes</i> , 2009 , 58, 2788-96	0.9	108
146	Branched-chain amino acids in disease. <i>Science</i> , 2019 , 363, 582-583	33.3	107
145	Coming of age: molecular drivers of aging and therapeutic opportunities. <i>Journal of Clinical Investigation</i> , 2013 , 123, 946-50	15.9	101
144	Metabolomic Profiling Identifies Novel Circulating Biomarkers of Mitochondrial Dysfunction Differentially Elevated in Heart Failure With Preserved Versus Reduced Ejection Fraction: Evidence for Shared Metabolic Impairments in Clinical Heart Failure. <i>Journal of the American Heart Association</i> , 2016 , 5,	6	101
143	Prior Dietary Practices and Connections to a Human Gut Microbial Metacommunity Alter Responses to Diet Interventions. <i>Cell Host and Microbe</i> , 2017 , 21, 84-96	23.4	99
142	Biochemical mechanism of lipid-induced impairment of glucose-stimulated insulin secretion and reversal with a malate analogue. <i>Journal of Biological Chemistry</i> , 2004 , 279, 27263-71	5.4	95
141	Metabolomic profiling reveals mitochondrial-derived lipid biomarkers that drive obesity-associated inflammation. <i>PLoS ONE</i> , 2012 , 7, e38812	3.7	94
140	Interrupted Glucagon Signaling Reveals Hepatic β Cell Axis and Role for L-Glutamine in β Cell Proliferation. <i>Cell Metabolism</i> , 2017 , 25, 1362-1373.e5	24.6	91
139	Brain insulin lowers circulating BCAA levels by inducing hepatic BCAA catabolism. <i>Cell Metabolism</i> , 2014 , 20, 898-909	24.6	90

138	Effect of Roux-en-Y gastric bypass and laparoscopic adjustable gastric banding on branched-chain amino acid metabolism. <i>Diabetes</i> , 2013 , 62, 2757-61	0.9	87
137	Impact of combined resistance and aerobic exercise training on branched-chain amino acid turnover, glycine metabolism and insulin sensitivity in overweight humans. <i>Diabetologia</i> , 2015 , 58, 2324-35	10.3	82
136	Stimulation of human and rat islet beta-cell proliferation with retention of function by the homeodomain transcription factor Nkx6.1. <i>Molecular and Cellular Biology</i> , 2008 , 28, 3465-76	4.8	81
135	Metabolomics reveals broad-scale metabolic perturbations in hyperglycemic mothers during pregnancy. <i>Diabetes Care</i> , 2014 , 37, 158-66	14.6	79
134	Overexpression of a modified human malonyl-CoA decarboxylase blocks the glucose-induced increase in malonyl-CoA level but has no impact on insulin secretion in INS-1-derived (832/13) beta-cells. <i>Journal of Biological Chemistry</i> , 2001 , 276, 6479-84	5.4	78
133	OR07-1 Cord Blood Metabolomics: Association with Newborn Anthropometrics and C-Peptide across Ancestries. <i>Journal of the Endocrine Society</i> , 2019 , 3,	0.4	78
132	Validation of the association between a branched chain amino acid metabolite profile and extremes of coronary artery disease in patients referred for cardiac catheterization. <i>Atherosclerosis</i> , 2014 , 232, 191-6	3.1	77
131	Compartmentalized acyl-CoA metabolism in skeletal muscle regulates systemic glucose homeostasis. <i>Diabetes</i> , 2015 , 64, 23-35	0.9	75
130	The STEDMAN project: biophysical, biochemical and metabolic effects of a behavioral weight loss intervention during weight loss, maintenance, and regain. <i>OMICS A Journal of Integrative Biology</i> , 2009 , 13, 21-35	3.8	72
129	An adenovirus vector for efficient RNA interference-mediated suppression of target genes in insulinoma cells and pancreatic islets of langerhans. <i>Diabetes</i> , 2004 , 53, 2190-4	0.9	69
128	Dietary Sugars Alter Hepatic Fatty Acid Oxidation via Transcriptional and Post-translational Modifications of Mitochondrial Proteins. <i>Cell Metabolism</i> , 2019 , 30, 735-753.e4	24.6	66
127	Obesity and lipid stress inhibit carnitine acetyltransferase activity. <i>Journal of Lipid Research</i> , 2014 , 55, 635-44	6.3	65
126	Nkx6.1 regulates islet Ecell proliferation via Nr4a1 and Nr4a3 nuclear receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 5242-7	11.5	63
125	Mechanisms controlling pancreatic islet cell function in insulin secretion. <i>Nature Reviews Molecular Cell Biology</i> , 2021 , 22, 142-158	48.7	63
124	Coordinated regulatory variation associated with gestational hyperglycaemia regulates expression of the novel hexokinase HKDC1. <i>Nature Communications</i> , 2015 , 6, 6069	17.4	62
123	A VGF-derived peptide attenuates development of type 2 diabetes via enhancement of islet Ecell survival and function. <i>Cell Metabolism</i> , 2012 , 16, 33-43	24.6	61
122	Engineering of glycerol-stimulated insulin secretion in islet beta cells. Differential metabolic fates of glucose and glycerol provide insight into mechanisms of stimulus-secretion coupling. <i>Journal of Biological Chemistry</i> , 1997 , 272, 18621-7	5.4	61
121	Silencing of cytosolic or mitochondrial isoforms of malic enzyme has no effect on glucose-stimulated insulin secretion from rodent islets. <i>Journal of Biological Chemistry</i> , 2008 , 283, 28909-17	5.17	61

120	Normal flux through ATP-citrate lyase or fatty acid synthase is not required for glucose-stimulated insulin secretion. <i>Journal of Biological Chemistry</i> , 2007 , 282, 31592-600	5.4	60
119	MED13-dependent signaling from the heart confers leanness by enhancing metabolism in adipose tissue and liver. <i>EMBO Molecular Medicine</i> , 2014 , 6, 1610-21	12	59
118	Regulation of UCP1 and Mitochondrial Metabolism in Brown Adipose Tissue by Reversible Succinylation. <i>Molecular Cell</i> , 2019 , 74, 844-857.e7	17.6	58
117	BMI, RQ, diabetes, and sex affect the relationships between amino acids and clamp measures of insulin action in humans. <i>Diabetes</i> , 2014 , 63, 791-800	0.9	58
116	Metabolomic Quantitative Trait Loci (mQTL) Mapping Implicates the Ubiquitin Proteasome System in Cardiovascular Disease Pathogenesis. <i>PLoS Genetics</i> , 2015 , 11, e1005553	6	57
115	Mechanical unloading promotes myocardial energy recovery in human heart failure. <i>Circulation: Cardiovascular Genetics</i> , 2014 , 7, 266-76		56
114	Fatty acid oxidation and insulin action: when less is more. <i>Diabetes</i> , 2008 , 57, 1455-6	0.9	56
113	Integrated metabolomics and genomics: systems approaches to biomarkers and mechanisms of cardiovascular disease. <i>Circulation: Cardiovascular Genetics</i> , 2015 , 8, 410-9		55
112	Adenylosuccinate Is an Insulin Secretagogue Derived from Glucose-Induced Purine Metabolism. <i>Cell Reports</i> , 2015 , 13, 157-167	10.6	52
111	The mitochondrial 2-oxoglutarate carrier is part of a metabolic pathway that mediates glucose- and glutamine-stimulated insulin secretion. <i>Journal of Biological Chemistry</i> , 2010 , 285, 16530-7	5.4	51
110	Stimulus/secretion coupling factors in glucose-stimulated insulin secretion: insights gained from a multidisciplinary approach. <i>Diabetes</i> , 2002 , 51 Suppl 3, S389-93	0.9	51
109	Maternal BMI and Glycemia Impact the Fetal Metabolome. <i>Diabetes Care</i> , 2017 , 40, 902-910	14.6	49
108	Associations of maternal BMI and insulin resistance with the maternal metabolome and newborn outcomes. <i>Diabetologia</i> , 2017 , 60, 518-530	10.3	48
107	The coactivator SRC-1 is an essential coordinator of hepatic glucose production. <i>Cell Metabolism</i> , 2010 , 12, 606-18	24.6	47
106	Functional genomics of the beta-cell: short-chain 3-hydroxyacyl-coenzyme A dehydrogenase regulates insulin secretion independent of K ⁺ currents. <i>Molecular Endocrinology</i> , 2007 , 21, 765-73		46
105	Exercise-induced changes in metabolic intermediates, hormones, and inflammatory markers associated with improvements in insulin sensitivity. <i>Diabetes Care</i> , 2011 , 34, 174-6	14.6	45
104	Pdx-1 activates islet β and β cell proliferation via a mechanism regulated by transient receptor potential cation channels 3 and 6 and extracellular signal-regulated kinases 1 and 2. <i>Molecular and Cellular Biology</i> , 2013 , 33, 4017-29	4.8	44
103	Chronic suppression of acetyl-CoA carboxylase 1 in beta-cells impairs insulin secretion via inhibition of glucose rather than lipid metabolism. <i>Journal of Biological Chemistry</i> , 2008 , 283, 14248-56	5.4	44

102	Cardiomyocyte glucagon receptor signaling modulates outcomes in mice with experimental myocardial infarction. <i>Molecular Metabolism</i> , 2015 , 4, 132-43	8.8	43
101	Integrated Regulation of Hepatic Lipid and Glucose Metabolism by Adipose Triacylglycerol Lipase and FoxO Proteins. <i>Cell Reports</i> , 2016 , 15, 349-59	10.6	43
100	Race and sex differences in small-molecule metabolites and metabolic hormones in overweight and obese adults. <i>OMICS A Journal of Integrative Biology</i> , 2013 , 17, 627-35	3.8	42
99	Induction of miR-132 and miR-212 Expression by Glucagon-Like Peptide 1 (GLP-1) in Rodent and Human Pancreatic β Cells. <i>Molecular Endocrinology</i> , 2015 , 29, 1243-53		39
98	Metabolic Networks and Metabolites Underlie Associations Between Maternal Glucose During Pregnancy and Newborn Size at Birth. <i>Diabetes</i> , 2016 , 65, 2039-50	0.9	39
97	Disrupted Maturation of the Microbiota and Metabolome among Extremely Preterm Infants with Postnatal Growth Failure. <i>Scientific Reports</i> , 2019 , 9, 8167	4.9	38
96	Metabolic profiles predict adverse events after coronary artery bypass grafting. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2012 , 143, 873-8	1.5	35
95	The ubiquitin ligase MuRF1 regulates PPAR α activity in the heart by enhancing nuclear export via monoubiquitination. <i>Molecular and Cellular Endocrinology</i> , 2015 , 413, 36-48	4.4	34
94	Branched-chain amino acids alter neurobehavioral function in rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013 , 304, E405-13	6	34
93	HIF-1 Alpha Regulates the Response of Primary Sarcomas to Radiation Therapy through a Cell Autonomous Mechanism. <i>Radiation Research</i> , 2015 , 183, 594-609	3.1	33
92	The Study of the Effects of Diet on Metabolism and Nutrition (STEDMAN) weight loss project: Rationale and design. <i>Contemporary Clinical Trials</i> , 2005 , 26, 616-25	2.3	33
91	Ablation of steroid receptor coactivator-3 resembles the human CACT metabolic myopathy. <i>Cell Metabolism</i> , 2012 , 15, 752-63	24.6	32
90	Metabolomic profiling reveals a role for caspase-2 in lipoapoptosis. <i>Journal of Biological Chemistry</i> , 2013 , 288, 14463-14475	5.4	32
89	Effects of a gut pathobiont in a gnotobiotic mouse model of childhood undernutrition. <i>Science Translational Medicine</i> , 2016 , 8, 366ra164	17.5	31
88	Fatty acid elongase-5 (Elovl5) regulates hepatic triglyceride catabolism in obese C57BL/6J mice. <i>Journal of Lipid Research</i> , 2014 , 55, 1448-64	6.3	30
87	Getting biological about the genetics of diabetes. <i>Nature Medicine</i> , 2010 , 16, 388-91	50.5	30
86	Plasma acylcarnitine profiling indicates increased fatty acid oxidation relative to tricarboxylic acid cycle capacity in young, healthy low birth weight men. <i>Physiological Reports</i> , 2016 , 4, e12977	2.6	30
85	Kv2.1 Clustering Contributes to Insulin Exocytosis and Rescues Human β Cell Dysfunction. <i>Diabetes</i> , 2017 , 66, 1890-1900	0.9	28

84	The Prohormone VGF Regulates β Cell Function via Insulin Secretory Granule Biogenesis. <i>Cell Reports</i> , 2017 , 20, 2480-2489	10.6	28
83	Metabolomics applied to the pancreatic islet. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 589, 120-30	4.1	27
82	Targeted Metabolomics Demonstrates Distinct and Overlapping Maternal Metabolites Associated With BMI, Glucose, and Insulin Sensitivity During Pregnancy Across Four Ancestry Groups. <i>Diabetes Care</i> , 2017 , 40, 911-919	14.6	27
81	Recent progress in metabolic signaling pathways regulating aging and life span. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014 , 69 Suppl 1, S21-7	6.4	27
80	MuRF2 regulates PPAR α activity to protect against diabetic cardiomyopathy and enhance weight gain induced by a high fat diet. <i>Cardiovascular Diabetology</i> , 2015 , 14, 97	8.7	27
79	Mixture model normalization for non-targeted gas chromatography/mass spectrometry metabolomics data. <i>BMC Bioinformatics</i> , 2017 , 18, 84	3.6	26
78	Non-targeted metabolomics of double-mutant cardiomyocytes reveals a novel role for SWI/SNF complexes in metabolic homeostasis. <i>Metabolomics</i> , 2015 , 11, 1287-1301	4.7	26
77	Daily Variation of Serum Acylcarnitines and Amino Acids. <i>Metabolomics</i> , 2012 , 8, 556-565	4.7	26
76	Temporal dynamics of liver mitochondrial protein acetylation and succinylation and metabolites due to high fat diet and/or excess glucose or fructose. <i>PLoS ONE</i> , 2018 , 13, e0208973	3.7	26
75	Research resource: tissue- and pathway-specific metabolomic profiles of the steroid receptor coactivator (SRC) family. <i>Molecular Endocrinology</i> , 2013 , 27, 366-80		25
74	Cardiomyocyte-Specific Human Bcl2-Associated Anthanogene 3 P209L Expression Induces Mitochondrial Fragmentation, Bcl2-Associated Anthanogene 3 Haploinsufficiency, and Activates p38 Signaling. <i>American Journal of Pathology</i> , 2016 , 186, 1989-2007	5.8	25
73	Hepatic mTORC1 Opposes Impaired Insulin Action to Control Mitochondrial Metabolism in Obesity. <i>Cell Reports</i> , 2016 , 16, 508-519	10.6	24
72	Maternal metabolites during pregnancy are associated with newborn outcomes and hyperinsulinaemia across ancestries. <i>Diabetologia</i> , 2019 , 62, 473-484	10.3	23
71	Delayed apoptosis allows islet β cells to implement an autophagic mechanism to promote cell survival. <i>PLoS ONE</i> , 2017 , 12, e0172567	3.7	22
70	Contamination with E1A-positive wild-type adenovirus accounts for species-specific stimulation of islet cell proliferation by CCK: a cautionary note. <i>Molecular Endocrinology</i> , 2010 , 24, 464-7		21
69	Reductive TCA cycle metabolism fuels glutamine- and glucose-stimulated insulin secretion. <i>Cell Metabolism</i> , 2021 , 33, 804-817.e5	24.6	21
68	Muscle-Liver Trafficking of BCAA-Derived Nitrogen Underlies Obesity-Related Glycine Depletion. <i>Cell Reports</i> , 2020 , 33, 108375	10.6	20
67	Branched-chain β ketoacids are preferentially reaminated and activate protein synthesis in the heart. <i>Nature Communications</i> , 2021 , 12, 1680	17.4	20

66	Research Resource: Roles for Calcium/Calmodulin-Dependent Protein Kinase Kinase 2 (CaMKK2) in Systems Metabolism. <i>Molecular Endocrinology</i> , 2016 , 30, 557-72		20
65	Sildenafil Treatment in Heart Failure With Preserved Ejection Fraction: Targeted Metabolomic Profiling in the RELAX Trial. <i>JAMA Cardiology</i> , 2017 , 2, 896-901	16.2	19
64	Effects of HIV infection on the metabolic and hormonal status of children with severe acute malnutrition. <i>PLoS ONE</i> , 2014 , 9, e102233	3.7	19
63	Remodeling of the Acetylproteome by SIRT3 Manipulation Fails to Affect Insulin Secretion or β Cell Metabolism in the Absence of Overnutrition. <i>Cell Reports</i> , 2018 , 24, 209-223.e6	10.6	19
62	Non-targeted metabolomics analysis of cardiac Muscle Ring Finger-1 (MuRF1), MuRF2, and MuRF3 in vivo reveals novel and redundant metabolic changes. <i>Metabolomics</i> , 2015 , 11, 312-322	4.7	18
61	Dietary Patterns among Asian Indians Living in the United States Have Distinct Metabolomic Profiles That Are Associated with Cardiometabolic Risk. <i>Journal of Nutrition</i> , 2018 , 148, 1150-1159	4.1	18
60	Control of voltage-gated potassium channel Kv2.2 expression by pyruvate-isocitrate cycling regulates glucose-stimulated insulin secretion. <i>Journal of Biological Chemistry</i> , 2013 , 288, 23128-40	5.4	17
59	Dietary branched-chain amino acid restriction alters fuel selection and reduces triglyceride stores in hearts of Zucker fatty rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020 , 318, E216-E223	6	17
58	Enhanced GLUT4-Dependent Glucose Transport Relieves Nutrient Stress in Obese Mice Through Changes in Lipid and Amino Acid Metabolism. <i>Diabetes</i> , 2016 , 65, 3585-3597	0.9	17
57	Near-roadway air pollution exposure and altered fatty acid oxidation among adolescents and young adults - The interplay with obesity. <i>Environment International</i> , 2019 , 130, 104935	12.9	16
56	Association of Plasma Small-Molecule Intermediate Metabolites With Age and Body Mass Index Across Six Diverse Study Populations. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016 , 71, 1507-1513	6.4	16
55	Liver receptor homolog-1 is a critical determinant of methyl-pool metabolism. <i>Hepatology</i> , 2016 , 63, 95-106	11.2	16
54	Effects of the kinase inhibitor sorafenib on heart, muscle, liver and plasma metabolism in vivo using non-targeted metabolomics analysis. <i>British Journal of Pharmacology</i> , 2017 , 174, 4797-4811	8.6	14
53	Muscle ring finger-3 protects against diabetic cardiomyopathy induced by a high fat diet. <i>BMC Endocrine Disorders</i> , 2015 , 15, 36	3.3	14
52	Plasma acylcarnitines are associated with pulmonary hypertension. <i>Pulmonary Circulation</i> , 2017 , 7, 211-218	1.8	14
51	Evidence for Feedback Regulation Following Cholesterol Lowering Therapy in a Prostate Cancer Xenograft Model. <i>Prostate</i> , 2017 , 77, 446-457	4.2	13
50	Cord Blood Metabolomics: Association With Newborn Anthropometrics and C-Peptide Across Ancestries. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019 , 104, 4459-4472	5.6	13
49	Human amylin proteotoxicity impairs protein biosynthesis, and alters major cellular signaling pathways in the heart, brain and liver of humanized diabetic rat model in vivo. <i>Metabolomics</i> , 2016 , 12, 1	4.7	13

48	Creation of versatile cloning platforms for transgene expression and dCas9-based epigenome editing. <i>Nucleic Acids Research</i> , 2019 , 47, e23	20.1	13
47	Identification of a small molecule that stimulates human β cell proliferation and insulin secretion, and protects against cytotoxic stress in rat insulinoma cells. <i>PLoS ONE</i> , 2020 , 15, e0224344	3.7	12
46	Effect of Progressive Weight Loss on Lactate Metabolism: A Randomized Controlled Trial. <i>Obesity</i> , 2018 , 26, 683-688	8	12
45	Insulin action, type 2 diabetes, and branched-chain amino acids: A two-way street. <i>Molecular Metabolism</i> , 2021 , 52, 101261	8.8	12
44	Improvement in insulin resistance after gastric bypass surgery is correlated with a decline in plasma 2-hydroxybutyric acid. <i>Surgery for Obesity and Related Diseases</i> , 2018 , 14, 1126-1132	3	11
43	A Pdx-1-Regulated Soluble Factor Activates Rat and Human Islet Cell Proliferation. <i>Molecular and Cellular Biology</i> , 2016 , 36, 2918-2930	4.8	11
42	Metabolomics applied to islet nutrient sensing mechanisms. <i>Diabetes, Obesity and Metabolism</i> , 2017 , 19 Suppl 1, 90-94	6.7	10
41	Recommendations for Improving Identification and Quantification in Non-Targeted, GC-MS-Based Metabolomic Profiling of Human Plasma. <i>Metabolites</i> , 2017 , 7,	5.6	10
40	Multi-omic profiles of hepatic metabolism in TPN-fed preterm pigs administered new generation lipid emulsions. <i>Journal of Lipid Research</i> , 2016 , 57, 1696-711	6.3	10
39	Diabetes: The good in fat. <i>Nature</i> , 2014 , 516, 49-50	50.4	8
38	Perinatal western-type diet and associated gestational weight gain alter postpartum maternal mood. <i>Brain and Behavior</i> , 2017 , 7, e00828	3.4	8
37	Type-2-Diabetes Alters CSF but Not Plasma Metabolomic and AD Risk Profiles in Vervet Monkeys. <i>Frontiers in Neuroscience</i> , 2019 , 13, 843	5.1	7
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19	Mutant IDH and non-mutant chondrosarcomas display distinct cellular metabolomes. <i>Cancer & Metabolism</i> , 2021 , 9, 13	5.4	2
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15	A tribute to Roger H. Unger (1924-2020). <i>Journal of Clinical Investigation</i> , 2020 , 130, 6191-6193	15.9	1
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