

# Christopher B Newgard

## List of Publications by Year in Descending Order

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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	Effects of Tirzepatide, a Dual GIP and GLP-1 RA, on Lipid and Metabolite Profiles in Subjects with Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2021</b> ,	5.6	6
190	Branched-chain ketoacids are preferentially reaminated and activate protein synthesis in the heart. <i>Nature Communications</i> , <b>2021</b> , 12, 1680	17.4	20
189	BCAA Supplementation in Mice with Diet-induced Obesity Alters the Metabolome Without Impairing Glucose Homeostasis. <i>Endocrinology</i> , <b>2021</b> , 162,	4.8	7
188	Mutant IDH and non-mutant chondrosarcomas display distinct cellular metabolomes. <i>Cancer &amp; Metabolism</i> , <b>2021</b> , 9, 13	5.4	2
187	Metabolomic profiling identifies complex lipid species and amino acid analogues associated with response to weight loss interventions. <i>PLoS ONE</i> , <b>2021</b> , 16, e0240764	3.7	3
186	Gut microbiome contributions to altered metabolism in a pig model of undernutrition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	3
185	Insulin action, type 2 diabetes, and branched-chain amino acids: A two-way street. <i>Molecular Metabolism</i> , <b>2021</b> , 52, 101261	8.8	12
184	Association of high-sensitivity C-reactive protein and odds of breast cancer by molecular subtype: analysis of the MEND study. <i>Oncotarget</i> , <b>2021</b> , 12, 1230-1242	3.3	1
183	Maternal Metabolites Associated With Gestational Diabetes Mellitus and a Postpartum Disorder of Glucose Metabolism. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2021</b> , 106, 3283-3294	5.6	4
182	Reductive TCA cycle metabolism fuels glutamine- and glucose-stimulated insulin secretion. <i>Cell Metabolism</i> , <b>2021</b> , 33, 804-817.e5	24.6	21
181	Mechanisms controlling pancreatic islet cell function in insulin secretion. <i>Nature Reviews Molecular Cell Biology</i> , <b>2021</b> , 22, 142-158	48.7	63
180	Efficacy of metformin and fermentable fiber combination therapy in adolescents with severe obesity and insulin resistance: study protocol for a double-blind randomized controlled trial. <i>Trials</i> , <b>2021</b> , 22, 148	2.8	2
179	Metabolites and diabetes remission after weight loss. <i>Nutrition and Diabetes</i> , <b>2021</b> , 11, 10	4.7	5
178	Muscle Krppel-like factor 15 regulates lipid flux and systemic metabolic homeostasis. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	7
177	The Pediatric Obesity Microbiome and Metabolism Study (POMMS): Methods, Baseline Data, and Early Insights. <i>Obesity</i> , <b>2021</b> , 29, 569-578	8	4
176	Association of Life-Course Educational Attainment and Breast Cancer Grade in the MEND Study. <i>Annals of Global Health</i> , <b>2021</b> , 87, 59	3.3	0
175	Circulating long chain acylcarnitines and outcomes in diabetic heart failure: an HF-ACTION clinical trial substudy. <i>Cardiovascular Diabetology</i> , <b>2021</b> , 20, 161	8.7	1

174	NADH inhibition of SIRT1 links energy state to transcription during time-restricted feeding.. <i>Nature Metabolism</i> , <b>2021</b> , 3, 1621-1632	14.6	2
173	Metabolomic and genetic associations with insulin resistance in pregnancy. <i>Diabetologia</i> , <b>2020</b> , 63, 1783-1795	17.95	7
172	Identification of a small molecule that stimulates human $\beta$ cell proliferation and insulin secretion, and protects against cytotoxic stress in rat insulinoma cells. <i>PLoS ONE</i> , <b>2020</b> , 15, e0224344	3.7	12
171	A tribute to Roger H. Unger (1924-2020). <i>Journal of Clinical Investigation</i> , <b>2020</b> , 130, 6191-6193	15.9	1
170	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> , <b>2020</b> , 318, E216-E223	6	17
169	Muscle-Liver Trafficking of BCAA-Derived Nitrogen Underlies Obesity-Related Glycine Depletion. <i>Cell Reports</i> , <b>2020</b> , 33, 108375	10.6	20
168	$\beta$ Cell-specific ablation of sirtuin 4 does not affect nutrient-stimulated insulin secretion in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2020</b> , 319, E805-E813	6	1
167	Type-2-Diabetes Alters CSF but Not Plasma Metabolomic and AD Risk Profiles in Vervet Monkeys. <i>Frontiers in Neuroscience</i> , <b>2019</b> , 13, 843	5.1	7
166	Cord Blood Metabolomics: Association With Newborn Anthropometrics and C-Peptide Across Ancestries. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2019</b> , 104, 4459-4472	5.6	13
165	Dietary Sugars Alter Hepatic Fatty Acid Oxidation via Transcriptional and Post-translational Modifications of Mitochondrial Proteins. <i>Cell Metabolism</i> , <b>2019</b> , 30, 735-753.e4	24.6	66
164	Improving human $\beta$ cell maturation in vitro. <i>Nature Cell Biology</i> , <b>2019</b> , 21, 119-121	23.4	
163	Near-roadway air pollution exposure and altered fatty acid oxidation among adolescents and young adults - The interplay with obesity. <i>Environment International</i> , <b>2019</b> , 130, 104935	12.9	16
162	Disrupted Maturation of the Microbiota and Metabolome among Extremely Preterm Infants with Postnatal Growth Failure. <i>Scientific Reports</i> , <b>2019</b> , 9, 8167	4.9	38
161	Regulation of UCP1 and Mitochondrial Metabolism in Brown Adipose Tissue by Reversible Succinylation. <i>Molecular Cell</i> , <b>2019</b> , 74, 844-857.e7	17.6	58
160	Branched-chain amino acids in disease. <i>Science</i> , <b>2019</b> , 363, 582-583	33.3	107
159	Effects of microbiota-directed foods in gnotobiotic animals and undernourished children. <i>Science</i> , <b>2019</b> , 365,	33.3	160
158	OR07-1 Cord Blood Metabolomics: Association with Newborn Anthropometrics and C-Peptide across Ancestries. <i>Journal of the Endocrine Society</i> , <b>2019</b> , 3,	0.4	78
157	Peripheral blood metabolite profiles associated with new onset atrial fibrillation. <i>American Heart Journal</i> , <b>2019</b> , 211, 54-59	4.9	2

156	Creation of versatile cloning platforms for transgene expression and dCas9-based epigenome editing. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, e23	20.1	13
155	Maternal metabolites during pregnancy are associated with newborn outcomes and hyperinsulinaemia across ancestries. <i>Diabetologia</i> , <b>2019</b> , 62, 473-484	10.3	23
154	Effect of Progressive Weight Loss on Lactate Metabolism: A Randomized Controlled Trial. <i>Obesity</i> , <b>2018</b> , 26, 683-688	8	12
153	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> , <b>2018</b> , 14, 1126-1132	3	11
152	Metabolomic Signatures and Metabolic Complications in Childhood Obesity. <i>Contemporary Endocrinology</i> , <b>2018</b> , 343-361	0.3	4
151	Cardiovascular Metabolomics. <i>Circulation Research</i> , <b>2018</b> , 122, 1238-1258	15.7	144
150	John Denis McGarry, PhD: A Remembrance of a Master Metabolic Physiologist. <i>Diabetes Care</i> , <b>2018</b> , 41, 1330-1336	14.6	
149	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> , <b>2018</b> , 148, 1150-1159	4.1	18
148	Kruppel-like factor 15 is required for the cardiac adaptive response to fasting. <i>PLoS ONE</i> , <b>2018</b> , 13, e0193376	3.7	7
147	Physiological mechanisms of sustained fumagillin-induced weight loss. <i>JCI Insight</i> , <b>2018</b> , 3,	9.9	6
146	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> , <b>2018</b> , 13, e0208973	3.7	26
145	The BCKDH Kinase and Phosphatase Integrate BCAA and Lipid Metabolism via Regulation of ATP-Citrate Lyase. <i>Cell Metabolism</i> , <b>2018</b> , 27, 1281-1293.e7	24.6	115
144	Remodeling of the Acetylproteome by SIRT3 Manipulation Fails to Affect Insulin Secretion or $\beta$ Cell Metabolism in the Absence of Overnutrition. <i>Cell Reports</i> , <b>2018</b> , 24, 209-223.e6	10.6	19
143	Associations of maternal BMI and insulin resistance with the maternal metabolome and newborn outcomes. <i>Diabetologia</i> , <b>2017</b> , 60, 518-530	10.3	48
142	Mixture model normalization for non-targeted gas chromatography/mass spectrometry metabolomics data. <i>BMC Bioinformatics</i> , <b>2017</b> , 18, 84	3.6	26
141	Sildenafil Treatment in Heart Failure With Preserved Ejection Fraction: Targeted Metabolomic Profiling in the RELAX Trial. <i>JAMA Cardiology</i> , <b>2017</b> , 2, 896-901	16.2	19
140	Evidence for Feedback Regulation Following Cholesterol Lowering Therapy in a Prostate Cancer Xenograft Model. <i>Prostate</i> , <b>2017</b> , 77, 446-457	4.2	13
139	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> , <b>2017</b> , 40, 911-919	14.6	27

138	Interrupted Glucagon Signaling Reveals Hepatic $\beta$ Cell Axis and Role for L-Glutamine in $\beta$ Cell Proliferation. <i>Cell Metabolism</i> , <b>2017</b> , 25, 1362-1373.e5	24.6	91
137	Kv2.1 Clustering Contributes to Insulin Exocytosis and Rescues Human $\beta$ Cell Dysfunction. <i>Diabetes</i> , <b>2017</b> , 66, 1890-1900	0.9	28
136	Prior Dietary Practices and Connections to a Human Gut Microbial Metacommunity Alter Responses to Diet Interventions. <i>Cell Host and Microbe</i> , <b>2017</b> , 21, 84-96	23.4	99
135	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> , <b>2017</b> , 174, 4797-4811	8.6	14
134	Metabolomics applied to islet nutrient sensing mechanisms. <i>Diabetes, Obesity and Metabolism</i> , <b>2017</b> , 19 Suppl 1, 90-94	6.7	10
133	The Prohormone VGF Regulates $\beta$ Cell Function via Insulin Secretory Granule Biogenesis. <i>Cell Reports</i> , <b>2017</b> , 20, 2480-2489	10.6	28
132	Plasma acylcarnitines are associated with pulmonary hypertension. <i>Pulmonary Circulation</i> , <b>2017</b> , 7, 211-218	2.8	14
131	Perinatal western-type diet and associated gestational weight gain alter postpartum maternal mood. <i>Brain and Behavior</i> , <b>2017</b> , 7, e00828	3.4	8
130	Maternal BMI and Glycemia Impact the Fetal Metabolome. <i>Diabetes Care</i> , <b>2017</b> , 40, 902-910	14.6	49
129	Metabolomics and Metabolic Diseases: Where Do We Stand?. <i>Cell Metabolism</i> , <b>2017</b> , 25, 43-56	24.6	339
128	Recommendations for Improving Identification and Quantification in Non-Targeted, GC-MS-Based Metabolomic Profiling of Human Plasma. <i>Metabolites</i> , <b>2017</b> , 7,	5.6	10
127	Divergent effects of glucose and fructose on hepatic lipogenesis and insulin signaling. <i>Journal of Clinical Investigation</i> , <b>2017</b> , 127, 4059-4074	15.9	143
126	Delayed apoptosis allows islet $\beta$ cells to implement an autophagic mechanism to promote cell survival. <i>PLoS ONE</i> , <b>2017</b> , 12, e0172567	3.7	22
125	Metabolomics applied to the pancreatic islet. <i>Archives of Biochemistry and Biophysics</i> , <b>2016</b> , 589, 120-30	4.1	27
124	Effects of a gut pathobiont in a gnotobiotic mouse model of childhood undernutrition. <i>Science Translational Medicine</i> , <b>2016</b> , 8, 366ra164	17.5	31
123	HIV-1 Envelope Mimicry of Host Enzyme Kynureninase Does Not Disrupt Tryptophan Metabolism. <i>Journal of Immunology</i> , <b>2016</b> , 197, 4663-4673	5.3	5
122	A Pdx-1-Regulated Soluble Factor Activates Rat and Human Islet Cell Proliferation. <i>Molecular and Cellular Biology</i> , <b>2016</b> , 36, 2918-2930	4.8	11
121	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> , <b>2016</b> , 12, 1	4.7	13

120	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> , <b>2016</b> , 71, 1507-1513	6.4	16
119	Gut bacteria that prevent growth impairments transmitted by microbiota from malnourished children. <i>Science</i> , <b>2016</b> , 351,	33.3	406
118	Sialylated Milk Oligosaccharides Promote Microbiota-Dependent Growth in Models of Infant Undernutrition. <i>Cell</i> , <b>2016</b> , 164, 859-71	56.2	370
117	The Gut Microbiota Modulates Energy Metabolism in the Hibernating Brown Bear <i>Ursus arctos</i> . <i>Cell Reports</i> , <b>2016</b> , 14, 1655-1661	10.6	169
116	Hepatic mTORC1 Opposes Impaired Insulin Action to Control Mitochondrial Metabolism in Obesity. <i>Cell Reports</i> , <b>2016</b> , 16, 508-519	10.6	24
115	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> , <b>2016</b> , 4, e12977	2.6	30
114	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> , <b>2016</b> , 5, 538-551	8.8	139
113	Integrated Regulation of Hepatic Lipid and Glucose Metabolism by Adipose Triacylglycerol Lipase and FoxO Proteins. <i>Cell Reports</i> , <b>2016</b> , 15, 349-59	10.6	43
112	Catabolic Defect of Branched-Chain Amino Acids Promotes Heart Failure. <i>Circulation</i> , <b>2016</b> , 133, 2038-49	16.7	233
111	Liver receptor homolog-1 is a critical determinant of methyl-pool metabolism. <i>Hepatology</i> , <b>2016</b> , 63, 95-106	11.2	16
110	Metabolic Networks and Metabolites Underlie Associations Between Maternal Glucose During Pregnancy and Newborn Size at Birth. <i>Diabetes</i> , <b>2016</b> , 65, 2039-50	0.9	39
109	Research Resource: Roles for Calcium/Calmodulin-Dependent Protein Kinase Kinase 2 (CaMKK2) in Systems Metabolism. <i>Molecular Endocrinology</i> , <b>2016</b> , 30, 557-72		20
108	Multi-omic profiles of hepatic metabolism in TPN-fed preterm pigs administered new generation lipid emulsions. <i>Journal of Lipid Research</i> , <b>2016</b> , 57, 1696-711	6.3	10
107	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> , <b>2016</b> , 186, 1989-2007	5.8	25
106	Enhanced GLUT4-Dependent Glucose Transport Relieves Nutrient Stress in Obese Mice Through Changes in Lipid and Amino Acid Metabolism. <i>Diabetes</i> , <b>2016</b> , 65, 3585-3597	0.9	17
105	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> , <b>2016</b> , 5,	6	101
104	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> , <b>2015</b> , 11, 312-322	4.7	18
103	HIF-1 Alpha Regulates the Response of Primary Sarcomas to Radiation Therapy through a Cell Autonomous Mechanism. <i>Radiation Research</i> , <b>2015</b> , 183, 594-609	3.1	33

102	Integrated metabolomics and genomics: systems approaches to biomarkers and mechanisms of cardiovascular disease. <i>Circulation: Cardiovascular Genetics</i> , <b>2015</b> , 8, 410-9		55
101	Non-targeted metabolomics of double-mutant cardiomyocytes reveals a novel role for SWI/SNF complexes in metabolic homeostasis. <i>Metabolomics</i> , <b>2015</b> , 11, 1287-1301	4.7	26
100	Adenylosuccinate Is an Insulin Secretagogue Derived from Glucose-Induced Purine Metabolism. <i>Cell Reports</i> , <b>2015</b> , 13, 157-167	10.6	52
99	Muscle ring finger-3 protects against diabetic cardiomyopathy induced by a high fat diet. <i>BMC Endocrine Disorders</i> , <b>2015</b> , 15, 36	3.3	14
98	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> , <b>2015</b> , 58, 2324-2335	10.3	82
97	Induction of miR-132 and miR-212 Expression by Glucagon-Like Peptide 1 (GLP-1) in Rodent and Human Pancreatic $\beta$ Cells. <i>Molecular Endocrinology</i> , <b>2015</b> , 29, 1243-53		39
96	The ubiquitin ligase MuRF1 regulates PPAR $\alpha$ activity in the heart by enhancing nuclear export via monoubiquitination. <i>Molecular and Cellular Endocrinology</i> , <b>2015</b> , 413, 36-48	4.4	34
95	Metabolomic profile associated with insulin resistance and conversion to diabetes in the Insulin Resistance Atherosclerosis Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2015</b> , 100, E463-8	5.6	141
94	Compartmentalized acyl-CoA metabolism in skeletal muscle regulates systemic glucose homeostasis. <i>Diabetes</i> , <b>2015</b> , 64, 23-35	0.9	75
93	MuRF2 regulates PPAR $\alpha$ activity to protect against diabetic cardiomyopathy and enhance weight gain induced by a high fat diet. <i>Cardiovascular Diabetology</i> , <b>2015</b> , 14, 97	8.7	27
92	Left-Biased Spermatogenic Failure in 129/SvJ Dnd1Ter/+ Mice Correlates with Differences in Vascular Architecture, Oxygen Availability, and Metabolites. <i>Biology of Reproduction</i> , <b>2015</b> , 93, 78	3.9	4
91	Cardiomyocyte glucagon receptor signaling modulates outcomes in mice with experimental myocardial infarction. <i>Molecular Metabolism</i> , <b>2015</b> , 4, 132-43	8.8	43
90	Coordinated regulatory variation associated with gestational hyperglycaemia regulates expression of the novel hexokinase HKDC1. <i>Nature Communications</i> , <b>2015</b> , 6, 6069	17.4	62
89	Isocitrate-to-SENP1 signaling amplifies insulin secretion and rescues dysfunctional $\beta$ cells. <i>Journal of Clinical Investigation</i> , <b>2015</b> , 125, 3847-60	15.9	109
88	Metabolomic Quantitative Trait Loci (mQTL) Mapping Implicates the Ubiquitin Proteasome System in Cardiovascular Disease Pathogenesis. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005553	6	57
87	Recent progress in metabolic signaling pathways regulating aging and life span. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2014</b> , 69 Suppl 1, S21-7	6.4	27
86	Mechanical unloading promotes myocardial energy recovery in human heart failure. <i>Circulation: Cardiovascular Genetics</i> , <b>2014</b> , 7, 266-76		56
85	Diabetes: The good in fat. <i>Nature</i> , <b>2014</b> , 516, 49-50	50.4	8

84	Hepatic SRC-1 activity orchestrates transcriptional circuitries of amino acid pathways with potential relevance for human metabolic pathogenesis. <i>Molecular Endocrinology</i> , <b>2014</b> , 28, 1707-18		7
83	BMI, RQ, diabetes, and sex affect the relationships between amino acids and clamp measures of insulin action in humans. <i>Diabetes</i> , <b>2014</b> , 63, 791-800	0.9	58
82	Brain insulin lowers circulating BCAA levels by inducing hepatic BCAA catabolism. <i>Cell Metabolism</i> , <b>2014</b> , 20, 898-909	24.6	90
81	Fatty acid elongase-5 (Elovl5) regulates hepatic triglyceride catabolism in obese C57BL/6J mice. <i>Journal of Lipid Research</i> , <b>2014</b> , 55, 1448-64	6.3	30
80	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> , <b>2014</b> , 232, 191-6	3.1	77
79	Obesity and lipid stress inhibit carnitine acetyltransferase activity. <i>Journal of Lipid Research</i> , <b>2014</b> , 55, 635-44	6.3	65
78	Nkx6.1 regulates islet $\beta$ cell proliferation via Nr4a1 and Nr4a3 nuclear receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 5242-7	11.5	63
77	MED13-dependent signaling from the heart confers leanness by enhancing metabolism in adipose tissue and liver. <i>EMBO Molecular Medicine</i> , <b>2014</b> , 6, 1610-21	12	59
76	Metabolomics reveals broad-scale metabolic perturbations in hyperglycemic mothers during pregnancy. <i>Diabetes Care</i> , <b>2014</b> , 37, 158-66	14.6	79
75	Effects of HIV infection on the metabolic and hormonal status of children with severe acute malnutrition. <i>PLoS ONE</i> , <b>2014</b> , 9, e102233	3.7	19
74	Circadian clock NAD <sup>+</sup> cycle drives mitochondrial oxidative metabolism in mice. <i>Science</i> , <b>2013</b> , 342, 1243-1247	41.3	419
73	Gut microbiota from twins discordant for obesity modulate metabolism in mice. <i>Science</i> , <b>2013</b> , 341, 1241-1244	22.51	2251
72	SIRT5 regulates the mitochondrial lysine succinylome and metabolic networks. <i>Cell Metabolism</i> , <b>2013</b> , 18, 920-33	24.6	399
71	Branched-chain amino acids alter neurobehavioral function in rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2013</b> , 304, E405-13	6	34
70	Branched chain amino acids are novel biomarkers for discrimination of metabolic wellness. <i>Metabolism: Clinical and Experimental</i> , <b>2013</b> , 62, 961-9	12.7	148
69	Race and sex differences in small-molecule metabolites and metabolic hormones in overweight and obese adults. <i>OMICS A Journal of Integrative Biology</i> , <b>2013</b> , 17, 627-35	3.8	42
68	Research resource: tissue- and pathway-specific metabolomic profiles of the steroid receptor coactivator (SRC) family. <i>Molecular Endocrinology</i> , <b>2013</b> , 27, 366-80		25
67	Pdx-1 activates islet $\beta$ 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> , <b>2013</b> , 33, 4017-29	4.8	44



66	Metabolomic profiling reveals a role for caspase-2 in lipoapoptosis. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 14463-14475	5.4	32
65	Effect of Roux-en-Y gastric bypass and laparoscopic adjustable gastric banding on branched-chain amino acid metabolism. <i>Diabetes</i> , <b>2013</b> , 62, 2757-61	0.9	87
64	Control of voltage-gated potassium channel Kv2.2 expression by pyruvate-isocitrate cycling regulates glucose-stimulated insulin secretion. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 23128-40	5.4	17
63	Coming of age: molecular drivers of aging and therapeutic opportunities. <i>Journal of Clinical Investigation</i> , <b>2013</b> , 123, 946-50	15.9	101
62	Impact of parenteral lipid emulsions on the metabolomic phenotype in preterm TPN-fed piglets. <i>FASEB Journal</i> , <b>2013</b> , 27, 1073.11	0.9	
61	Elevated hepatic fatty acid elongase-5 (Elovl5) attenuates fatty liver in high fat diet induced obese mice. <i>FASEB Journal</i> , <b>2013</b> , 27, 1010.3	0.9	1
60	Metabolic profiles predict adverse events after coronary artery bypass grafting. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2012</b> , 143, 873-8	1.5	35
59	Interplay between lipids and branched-chain amino acids in development of insulin resistance. <i>Cell Metabolism</i> , <b>2012</b> , 15, 606-14	24.6	662
58	Metabolomic profiling for the identification of novel biomarkers and mechanisms related to common cardiovascular diseases: form and function. <i>Circulation</i> , <b>2012</b> , 126, 1110-20	16.7	252
57	Baseline metabolomic profiles predict cardiovascular events in patients at risk for coronary artery disease. <i>American Heart Journal</i> , <b>2012</b> , 163, 844-850.e1	4.9	215
56	Ablation of steroid receptor coactivator-3 resembles the human CACT metabolic myopathy. <i>Cell Metabolism</i> , <b>2012</b> , 15, 752-63	24.6	32
55	A VGF-derived peptide attenuates development of type 2 diabetes via enhancement of islet $\beta$ cell survival and function. <i>Cell Metabolism</i> , <b>2012</b> , 16, 33-43	24.6	61
54	Metabolomic profiling reveals mitochondrial-derived lipid biomarkers that drive obesity-associated inflammation. <i>PLoS ONE</i> , <b>2012</b> , 7, e38812	3.7	94
53	Daily Variation of Serum Acylcarnitines and Amino Acids. <i>Metabolomics</i> , <b>2012</b> , 8, 556-565	4.7	26
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2	Multi-Omic Profiling Reveals the Opposing Forces of Excess Dietary Sugar and Fat on Liver Mitochondria Protein Acetylation and Succinylation		1
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