

# Christopher B Newgard

## List of Publications by Year in descending order

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194  
papers

29,132  
citations

10389

72  
h-index

5255

165  
g-index

202  
all docs

202  
docs citations

202  
times ranked

34301  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gut Microbiota from Twins Discordant for Obesity Modulate Metabolism in Mice. <i>Science</i> , 2013, 341, 1241214.	12.6	3,006
2	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, 311-326.	16.2	2,597
3	Mitochondrial Overload and Incomplete Fatty Acid Oxidation Contribute to Skeletal Muscle Insulin Resistance. <i>Cell Metabolism</i> , 2008, 7, 45-56.	16.2	1,618
4	SIRT3 regulates mitochondrial fatty-acid oxidation by reversible enzyme deacetylation. <i>Nature</i> , 2010, 464, 121-125.	27.8	1,388
5	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.	37.0	1,006
6	Interplay between Lipids and Branched-Chain Amino Acids in Development of Insulin Resistance. <i>Cell Metabolism</i> , 2012, 15, 606-614.	16.2	861
7	SIRT3 Deficiency and Mitochondrial Protein Hyperacetylation Accelerate the Development of the Metabolic Syndrome. <i>Molecular Cell</i> , 2011, 44, 177-190.	9.7	691
8	Gut bacteria that prevent growth impairments transmitted by microbiota from malnourished children. <i>Science</i> , 2016, 351, .	12.6	580
9	SIRT5 Regulates the Mitochondrial Lysine Succinylome and Metabolic Networks. <i>Cell Metabolism</i> , 2013, 18, 920-933.	16.2	549
10	Metabolomics and Metabolic Diseases: Where Do We Stand?. <i>Cell Metabolism</i> , 2017, 25, 43-56.	16.2	539
11	Circadian Clock NAD <sup>+</sup> Cycle Drives Mitochondrial Oxidative Metabolism in Mice. <i>Science</i> , 2013, 342, 1243417.	12.6	525
12	Metabolic Coupling Factors in Pancreatic $\beta$ -Cell Signal Transduction. <i>Annual Review of Biochemistry</i> , 1995, 64, 689-719.	11.1	524
13	Sialylated Milk Oligosaccharides Promote Microbiota-Dependent Growth in Models of Infant Undernutrition. <i>Cell</i> , 2016, 164, 859-871.	28.9	497
14	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.	12.4	456
15	Peroxisome Proliferator-activated Receptor- $\gamma$ Co-activator 1 $\alpha$ -mediated Metabolic Remodeling of Skeletal Myocytes Mimics Exercise Training and Reverses Lipid-induced Mitochondrial Inefficiency. <i>Journal of Biological Chemistry</i> , 2005, 280, 33588-33598.	3.4	416
16	Hepatic expression of malonyl-CoA decarboxylase reverses muscle, liver and whole-animal insulin resistance. <i>Nature Medicine</i> , 2004, 10, 268-274.	30.7	414
17	Association of a Peripheral Blood Metabolic Profile With Coronary Artery Disease and Risk of Subsequent Cardiovascular Events. <i>Circulation: Cardiovascular Genetics</i> , 2010, 3, 207-214.	5.1	390
18	Catabolic Defect of Branched-Chain Amino Acids Promotes Heart Failure. <i>Circulation</i> , 2016, 133, 2038-2049.	1.6	390

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19	Relationships Between Circulating Metabolic Intermediates and Insulin Action in Overweight to Obese, Inactive Men and Women. <i>Diabetes Care</i> , 2009, 32, 1678-1683.	8.6	362
20	Metabolomics Applied to Diabetes Research. <i>Diabetes</i> , 2009, 58, 2429-2443.	0.6	346
21	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.	12.4	324
22	Metabolomic Profiling for the Identification of Novel Biomarkers and Mechanisms Related to Common Cardiovascular Diseases. <i>Circulation</i> , 2012, 126, 1110-1120.	1.6	312
23	Effects of microbiota-directed foods in gnotobiotic animals and undernourished children. <i>Science</i> , 2019, 365, .	12.6	305
24	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, 4813-4819.	7.1	303
25	The Gut Microbiota Modulates Energy Metabolism in the Hibernating Brown Bear <i>Ursus arctos</i> . <i>Cell Reports</i> , 2016, 14, 1655-1661.	6.4	290
26	Mechanisms controlling pancreatic islet cell function in insulin secretion. <i>Nature Reviews Molecular Cell Biology</i> , 2021, 22, 142-158.	37.0	277
27	Cardiovascular Metabolomics. <i>Circulation Research</i> , 2018, 122, 1238-1258.	4.5	276
28	Baseline metabolomic profiles predict cardiovascular events in patients at risk for coronary artery disease. <i>American Heart Journal</i> , 2012, 163, 844-850.e1.	2.7	271
29	<sup>13</sup> 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, 2708-2713.	7.1	247
30	Divergent effects of glucose and fructose on hepatic lipogenesis and insulin signaling. <i>Journal of Clinical Investigation</i> , 2017, 127, 4059-4074.	8.2	233
31	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.	16.2	222
32	Metabolic cycling in control of glucose-stimulated insulin secretion. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008, 295, E1287-E1297.	3.5	219
33	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.	6.5	210
34	A Pyruvate Cycling Pathway Involving Cytosolic NADP-dependent Isocitrate Dehydrogenase Regulates Glucose-stimulated Insulin Secretion. <i>Journal of Biological Chemistry</i> , 2006, 281, 30593-30602.	3.4	204
35	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-E468.	3.6	199
36	Branched-chain amino acids in disease. <i>Science</i> , 2019, 363, 582-583.	12.6	191

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37	Genetic Networks of Liver Metabolism Revealed by Integration of Metabolic and Transcriptional Profiling. <i>PLoS Genetics</i> , 2008, 4, e1000034.	3.5	188
38	Branched chain amino acids are novel biomarkers for discrimination of metabolic wellness. <i>Metabolism: Clinical and Experimental</i> , 2013, 62, 961-969.	3.4	184
39	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, .	3.7	178
40	Absence of the SRC-2 Coactivator Results in a Glycogenopathy Resembling Von Gierke's Disease. <i>Science</i> , 2008, 322, 1395-1399.	12.6	153
41	Interrupted Glucagon Signaling Reveals Hepatic $\beta$ Cell Axis and Role for L-Glutamine in $\beta$ Cell Proliferation. <i>Cell Metabolism</i> , 2017, 25, 1362-1373.e5.	16.2	153
42	Isocitrate-to-SEN1 signaling amplifies insulin secretion and rescues dysfunctional $\beta$ cells. <i>Journal of Clinical Investigation</i> , 2015, 125, 3847-3860.	8.2	148
43	Molecular or Pharmacologic Perturbation of the Link between Glucose and Lipid Metabolism Is without Effect on Glucose-stimulated Insulin Secretion. <i>Journal of Biological Chemistry</i> , 1998, 273, 16146-16154.	3.4	146
44	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, 1736-1746.	1.6	146
45	The Mitochondrial Citrate/Isocitrate Carrier Plays a Regulatory Role in Glucose-stimulated Insulin Secretion. <i>Journal of Biological Chemistry</i> , 2006, 281, 35624-35632.	3.4	144
46	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, 7297-7302.	7.1	142
47	High heritability of metabolomic profiles in families burdened with premature cardiovascular disease. <i>Molecular Systems Biology</i> , 2009, 5, 258.	7.2	140
48	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.	16.2	136
49	Coming of age: molecular drivers of aging and therapeutic opportunities. <i>Journal of Clinical Investigation</i> , 2013, 123, 946-950.	8.2	136
50	Insulin Resistance and Altered Systemic Glucose Metabolism in Mice Lacking Nur77. <i>Diabetes</i> , 2009, 58, 2788-2796.	0.6	132
51	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.	11.0	129
52	Compensatory Responses to Pyruvate Carboxylase Suppression in Islet $\beta$ -Cells. <i>Journal of Biological Chemistry</i> , 2006, 281, 22342-22351.	3.4	124
53	Brain Insulin Lowers Circulating BCAA Levels by Inducing Hepatic BCAA Catabolism. <i>Cell Metabolism</i> , 2014, 20, 898-909.	16.2	124
54	Regulation of UCP1 and Mitochondrial Metabolism in Brown Adipose Tissue by Reversible Succinylation. <i>Molecular Cell</i> , 2019, 74, 844-857.e7.	9.7	123

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55	Insulin action, type 2 diabetes, and branched-chain amino acids: A two-way street. <i>Molecular Metabolism</i> , 2021, 52, 101261.	6.5	122
56	Metabolomic Profiling Reveals Mitochondrial-Derived Lipid Biomarkers That Drive Obesity-Associated Inflammation. <i>PLoS ONE</i> , 2012, 7, e38812.	2.5	111
57	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, 191-196.	0.8	109
58	Effect of Roux-en-Y Gastric Bypass and Laparoscopic Adjustable Gastric Banding on Branched-Chain Amino Acid Metabolism. <i>Diabetes</i> , 2013, 62, 2757-2761.	0.6	108
59	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, 27263-27271.	3.4	106
60	Metabolomics Reveals Broad-Scale Metabolic Perturbations in Hyperglycemic Mothers During Pregnancy. <i>Diabetes Care</i> , 2014, 37, 158-166.	8.6	103
61	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, 2324-2335.	6.3	103
62	Compartmentalized Acyl-CoA Metabolism in Skeletal Muscle Regulates Systemic Glucose Homeostasis. <i>Diabetes</i> , 2015, 64, 23-35.	0.6	97
63	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, 3465-3476.	2.3	93
64	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> , 2014, 111, 5242-5247.	7.1	84
65	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, 6479-6484.	3.4	83
66	Coordinated regulatory variation associated with gestational hyperglycaemia regulates expression of the novel hexokinase HKDC1. <i>Nature Communications</i> , 2015, 6, 6069.	12.8	83
67	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.	2.0	81
68	Reductive TCA cycle metabolism fuels glutamine- and glucose-stimulated insulin secretion. <i>Cell Metabolism</i> , 2021, 33, 804-817.e5.	16.2	81
69	Metabolomic Quantitative Trait Loci (mQTL) Mapping Implicates the Ubiquitin Proteasome System in Cardiovascular Disease Pathogenesis. <i>PLoS Genetics</i> , 2015, 11, e1005553.	3.5	81
70	Obesity and lipid stress inhibit carnitine acetyltransferase activity. <i>Journal of Lipid Research</i> , 2014, 55, 635-644.	4.2	80
71	A VGF-Derived Peptide Attenuates Development of Type 2 Diabetes via Enhancement of Islet $\beta$ -Cell Survival and Function. <i>Cell Metabolism</i> , 2012, 16, 33-43.	16.2	79
72	<sc>MED</sc>13-dependent signaling from the heart confers leanness by enhancing metabolism in adipose tissue and liver. <i>EMBO Molecular Medicine</i> , 2014, 6, 1610-1621.	6.9	77

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73	Mechanical Unloading Promotes Myocardial Energy Recovery in Human Heart Failure. <i>Circulation: Cardiovascular Genetics</i> , 2014, 7, 266-276.	5.1	76
74	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.	0.6	76
75	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, 2190-2194.	0.6	74
76	Maternal BMI and Glycemia Impact the Fetal Metabolome. <i>Diabetes Care</i> , 2017, 40, 902-910.	8.6	74
77	Adenylosuccinate Is an Insulin Secretagogue Derived from Glucose-Induced Purine Metabolism. <i>Cell Reports</i> , 2015, 13, 157-167.	6.4	72
78	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, 28909-28917.	3.4	71
79	Associations of maternal BMI and insulin resistance with the maternal metabolome and newborn outcomes. <i>Diabetologia</i> , 2017, 60, 518-530.	6.3	71
80	Engineering of Glycerol-stimulated Insulin Secretion in Islet Beta Cells. <i>Journal of Biological Chemistry</i> , 1997, 272, 18621-18627.	3.4	68
81	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, 31592-31600.	3.4	65
82	Integrated Metabolomics and Genomics. <i>Circulation: Cardiovascular Genetics</i> , 2015, 8, 410-419.	5.1	65
83	Disrupted Maturation of the Microbiota and Metabolome among Extremely Preterm Infants with Postnatal Growth Failure. <i>Scientific Reports</i> , 2019, 9, 8167.	3.3	64
84	Fatty Acid Oxidation and Insulin Action. <i>Diabetes</i> , 2008, 57, 1455-1456.	0.6	62
85	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, 16530-16537.	3.4	61
86	Stimulus/Secretion Coupling Factors in Glucose-Stimulated Insulin Secretion: Insights Gained From a Multidisciplinary Approach. <i>Diabetes</i> , 2002, 51, S389-S393.	0.6	60
87	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, 627-635.	2.0	59
88	The Coactivator SRC-1 Is an Essential Coordinator of Hepatic Glucose Production. <i>Cell Metabolism</i> , 2010, 12, 606-618.	16.2	55
89	Cardiomyocyte glucagon receptor signaling modulates outcomes in mice with experimental myocardial infarction. <i>Molecular Metabolism</i> , 2015, 4, 132-143.	6.5	54
90	Integrated Regulation of Hepatic Lipid and Glucose Metabolism by Adipose Triacylglycerol Lipase and FoxO Proteins. <i>Cell Reports</i> , 2016, 15, 349-359.	6.4	54

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91	Effects of a gut pathobiont in a gnotobiotic mouse model of childhood undernutrition. <i>Science Translational Medicine</i> , 2016, 8, 366ra164.	12.4	54
92	Exercise-Induced Changes in Metabolic Intermediates, Hormones, and Inflammatory Markers Associated With Improvements in Insulin Sensitivity. <i>Diabetes Care</i> , 2011, 34, 174-176.	8.6	51
93	Pdx-1 Activates Islet $\beta$ - and $\delta$ -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, 4017-4029.	2.3	51
94	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, 765-773.	3.7	50
95	Metabolic Networks and Metabolites Underlie Associations Between Maternal Glucose During Pregnancy and Newborn Size at Birth. <i>Diabetes</i> , 2016, 65, 2039-2050.	0.6	49
96	The Prohormone VGF Regulates $\beta$ Cell Function via Insulin Secretory Granule Biogenesis. <i>Cell Reports</i> , 2017, 20, 2480-2489.	6.4	49
97	Muscle-Liver Trafficking of BCAA-Derived Nitrogen Underlies Obesity-Related Glycine Depletion. <i>Cell Reports</i> , 2020, 33, 108375.	6.4	49
98	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> , 2022, 107, 363-378.	3.6	49
99	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> , 2015, 29, 1243-1253.	3.7	48
100	Fatty acid elongase-5 (Elovl5) regulates hepatic triglyceride catabolism in obese C57BL/6J mice. <i>Journal of Lipid Research</i> , 2014, 55, 1448-1464.	4.2	47
101	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, 14248-14256.	3.4	46
102	Metabolic profiles predict adverse events after coronary artery bypass grafting. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2012, 143, 873-878.	0.8	45
103	Branched-chain amino acids alter neurobehavioral function in rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 304, E405-E413.	3.5	45
104	Branched-chain $\beta$ -ketoacids are preferentially reaminated and activate protein synthesis in the heart. <i>Nature Communications</i> , 2021, 12, 1680.	12.8	45
105	Maternal metabolites during pregnancy are associated with newborn outcomes and hyperinsulinaemia across ancestries. <i>Diabetologia</i> , 2019, 62, 473-484.	6.3	43
106	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.	3.5	43
107	The ubiquitin ligase MuRF1 regulates PPAR $\beta$ activity in the heart by enhancing nuclear export via monoubiquitination. <i>Molecular and Cellular Endocrinology</i> , 2015, 413, 36-48.	3.2	42
108	Metabolomic Profiling Reveals a Role for Caspase-2 in Lipoapoptosis. <i>Journal of Biological Chemistry</i> , 2013, 288, 14463-14475.	3.4	41

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109	HIF-1 Alpha Regulates the Response of Primary Sarcomas to Radiation Therapy through a Cell Autonomous Mechanism. <i>Radiation Research</i> , 2015, 183, 594.	1.5	41
110	MuRF2 regulates PPAR $\delta$ activity to protect against diabetic cardiomyopathy and enhance weight gain induced by a high fat diet. <i>Cardiovascular Diabetology</i> , 2015, 14, 97.	6.8	40
111	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, 616-625.	1.8	39
112	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.	1.7	39
113	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.	8.6	38
114	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.	2.5	38
115	Mixture model normalization for non-targeted gas chromatography/mass spectrometry metabolomics data. <i>BMC Bioinformatics</i> , 2017, 18, 84.	2.6	37
116	Ablation of Steroid Receptor Coactivator-3 Resembles the Human CACT Metabolic Myopathy. <i>Cell Metabolism</i> , 2012, 15, 752-763.	16.2	36
117	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.	3.8	36
118	Getting biological about the genetics of diabetes. <i>Nature Medicine</i> , 2010, 16, 388-391.	30.7	35
119	Metabolomics applied to the pancreatic islet. <i>Archives of Biochemistry and Biophysics</i> , 2016, 589, 120-130.	3.0	35
120	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.	10.0	35
121	Delayed apoptosis allows islet $\beta$ -cells to implement an autophagic mechanism to promote cell survival. <i>PLoS ONE</i> , 2017, 12, e0172567.	2.5	35
122	Daily variation of serum acylcarnitines and amino acids. <i>Metabolomics</i> , 2012, 8, 556-565.	3.0	34
123	Hepatic mTORC1 Opposes Impaired Insulin Action to Control Mitochondrial Metabolism in Obesity. <i>Cell Reports</i> , 2016, 16, 508-519.	6.4	34
124	Kv2.1 Clustering Contributes to Insulin Exocytosis and Rescues Human $\beta$ -Cell Dysfunction. <i>Diabetes</i> , 2017, 66, 1890-1900.	0.6	34
125	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, S21-S27.	3.6	32
126	Sildenafil Treatment in Heart Failure With Preserved Ejection Fraction. <i>JAMA Cardiology</i> , 2017, 2, 896.	6.1	31



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127	Cord Blood Metabolomics: Association With Newborn Anthropometrics and C-Peptide Across Ancestries. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019, 104, 4459-4472.	3.6	30
128	Non-targeted metabolomics of Brg1/Brm double-mutant cardiomyocytes reveals a novel role for SWI/SNF complexes in metabolic homeostasis. <i>Metabolomics</i> , 2015, 11, 1287-1301.	3.0	29
129	Research Resource: Roles for Calcium/Calmodulin-Dependent Protein Kinase Kinase 2 (CaMKK2) in Systems Metabolism. <i>Molecular Endocrinology</i> , 2016, 30, 557-572.	3.7	29
130	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.	2.9	29
131	Research Resource: Tissue- and Pathway-Specific Metabolomic Profiles of the Steroid Receptor Coactivator (SRC) Family. <i>Molecular Endocrinology</i> , 2013, 27, 366-380.	3.7	28
132	BCAA Supplementation in Mice with Diet-induced Obesity Alters the Metabolome Without Impairing Glucose Homeostasis. <i>Endocrinology</i> , 2021, 162, .	2.8	28
133	Creation of versatile cloning platforms for transgene expression and dCas9-based epigenome editing. <i>Nucleic Acids Research</i> , 2019, 47, e23-e23.	14.5	27
134	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> , 2018, 24, 209-223.e6.	6.4	26
135	NADH inhibition of SIRT1 links energy state to transcription during time-restricted feeding. <i>Nature Metabolism</i> , 2021, 3, 1621-1632.	11.9	26
136	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, 464-467.	3.7	25
137	Effects of HIV Infection on the Metabolic and Hormonal Status of Children with Severe Acute Malnutrition. <i>PLoS ONE</i> , 2014, 9, e102233.	2.5	25
138	Liver receptor homolog 1 is a critical determinant of methylépool metabolism. <i>Hepatology</i> , 2016, 63, 95-106.	7.3	24
139	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.	0.6	24
140	Effects of the kinase inhibitor sorafenib on heart, muscle, liver and plasma metabolism <i>in vivo</i> using non-targeted metabolomics analysis. <i>British Journal of Pharmacology</i> , 2017, 174, 4797-4811.	5.4	24
141	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.	3.6	22
142	Plasma acylcarnitines are associated with pulmonary hypertension. <i>Pulmonary Circulation</i> , 2017, 7, 211-218.	1.7	21
143	Metabolomic and genetic associations with insulin resistance in pregnancy. <i>Diabetologia</i> , 2020, 63, 1783-1795.	6.3	21
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