Clary B Clish

List of Publications by Year
in descending order

399 papers	59,634 citations	1370 108 h-index	1220 227 g-index
443 all docs	443 docs citations	443 times ranked	76578 citing authors

#	Article	IF	Citations
1	Regulation of Ferroptotic Cancer Cell Death by GPX4. Cell, 2014, 156, 317-331.	13.5	4,187
2	Succinate is an inflammatory signal that induces IL-1Î² through HIF-1Î±. Nature, 2013, 496, 238-242.	13.7	2,845
3	Metabolite profiles and the risk of developing diabetes. Nature Medicine, 2011, 17, 448-453.	15.2	2,586
4	Multi-omics of the gut microbial ecosystem in inflammatory bowel diseases. Nature, 2019, 569, 655-662.	13.7	1,638
5	Activation of a Metabolic Gene Regulatory Network Downstream of mTOR Complex 1. Molecular Cell, 2010, 39, 171-183.	4.5	1,598
6	Lipid mediator class switching during acute inflammation: signals in resolution. Nature Immunology, 2001, 2, 612-619.	7.0	1,229
7	Metabolite Profiling Identifies a Key Role for Glycine in Rapid Cancer Cell Proliferation. Science, 2012, 336, 1040-1044.	6.0	1,201
8	Gut microbiome structure and metabolic activity in inflammatory bowel disease. Nature Microbiology, 2019, 4, 293-305.	5.9	1,094
9	Sequencing of 53,831 diverse genomes from the NHLBI TOPMed Program. Nature, 2021, 590, 290-299.	13.7	1,069
10	Novel Functional Sets of Lipid-Derived Mediators with Antiinflammatory Actions Generated from Omega-3 Fatty Acids via Cyclooxygenase 2â€“Nonsteroidal Antiinflammatory Drugs and Transcellular Processing. Journal of Experimental Medicine, 2000, 192, 1197-1204.	4.2	1,048
11	The Dynamics of the Human Infant Gut Microbiome in Development and in Progression toward Type 1 Diabetes. Cell Host and Microbe, 2015, 17, 260-273.	5.1	1,008
12	Type I interferons and microbial metabolites of tryptophan modulate astrocyte activity and central nervous system inflammation via the aryl hydrocarbon receptor. Nature Medicine, 2016, 22, 586-597.	15.2	987
13	Pyruvate Kinase M2 Regulates Hif-1Î± Activity and IL-1Î² Induction and Is a Critical Determinant of the Warburg Effect in LPS-Activated Macrophages. Cell Metabolism, 2015, 21, 65-80.	7.2	887
14	The Histone Deacetylase Sirt6 Regulates Glucose Homeostasis via Hif1Î±. Cell, 2010, 140, 280-293.	13.5	880
15	SIRT3 Opposes Reprogramming of Cancer Cell Metabolism through HIF1Î± Destabilization. Cancer Cell, 2011, 19, 416-428.	7.7	690
16	Metabolomics in Prediabetes and Diabetes: A Systematic Review and Meta-analysis. Diabetes Care, 2016, 39, 833-846.	4.3	642
17	Correlating chemical sensitivity and basal gene expression reveals mechanism of action. Nature Chemical Biology, 2016, 12, 109-116.	3.9	636
18	Environment Impacts the Metabolic Dependencies of Ras-Driven Non-Small Cell Lung Cancer. Cell Metabolism, 2016, 23, 517-528.	7.2	616

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19	PGC1Î± Expression Defines a Subset of Human Melanoma Tumors with Increased Mitochondrial Capacity and Resistance to Oxidative Stress. Cancer Cell, 2013, 23, 287-301.	7.7	600
20	Metabolic determinants of cancer cell sensitivity to glucose limitation and biguanides. Nature, 2014, 508, 108-112.	13.7	585
21	Glutaminolysis and Fumarate Accumulation Integrate Immunometabolic and Epigenetic Programs in Trained Immunity. Cell Metabolism, 2016, 24, 807-819.	7.2	584
22	Lipid profiling identifies a triacylglycerol signature of insulin resistance and improves diabetes prediction in humans. Journal of Clinical Investigation, 2011, 121, 1402-1411.	3.9	537
23	Metabolite Profiling Identifies Pathways Associated With Metabolic Risk in Humans. Circulation, 2012, 125, 2222-2231.	1.6	514
24	A roadmap for interpreting 13 C metabolite labeling patterns from cells. Current Opinion in Biotechnology, 2015, 34, 189-201.	3.3	513
25	Elevation of circulating branched-chain amino acids is an early event in human pancreatic adenocarcinoma development. Nature Medicine, 2014, 20, 1193-1198.	15.2	510
26	A GPX4-dependent cancer cell state underlies the clear-cell morphology and confers sensitivity to ferroptosis. Nature Communications, 2019, 10, 1617.	5.8	499
27	Î²-Aminoisobutyric Acid Induces Browning of White Fat and Hepatic Î²-Oxidation and Is Inversely Correlated with Cardiometabolic Risk Factors. Cell Metabolism, 2014, 19, 96-108.	7.2	489
28	Meta-omics analysis of elite athletes identifies a performance-enhancing microbe that functions via lactate metabolism. Nature Medicine, 2019, 25, 1104-1109.	15.2	477
29	PKM2 Isoform-Specific Deletion Reveals a Differential Requirement for Pyruvate Kinase in Tumor Cells. Cell, 2013, 155, 397-409.	13.5	429
30	Plasticity of ether lipids promotes ferroptosis susceptibility and evasion. Nature, 2020, 585, 603-608.	13.7	420
31	Targeted Metabolomics. Current Protocols in Molecular Biology, 2012, 98, Unit 30.2.1-24.	2.9	402
32	Blood-Brain Barrier Permeability Is Regulated by Lipid Transport-Dependent Suppression of Caveolae-Mediated Transcytosis. Neuron, 2017, 94, 581-594.e5.	3.8	401
33	2-Aminoadipic acid is a biomarker for diabetes risk. Journal of Clinical Investigation, 2013, 123, 4309-4317.	3.9	397
34	MTAP deletion confers enhanced dependency on the PRMT5 arginine methyltransferase in cancer cells. Science, 2016, 351, 1214-1218.	6.0	396
35	Cytochrome P450 oxidoreductase contributes to phospholipid peroxidation in ferroptosis. Nature Chemical Biology, 2020, 16, 302-309.	3.9	396
36	PGC1Î± drives NAD biosynthesis linking oxidative metabolism to renal protection. Nature, 2016, 531, 528-532.	13.7	395

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37	SIRT4 Has Tumor-Suppressive Activity and Regulates the Cellular Metabolic Response to DNA Damage by Inhibiting Mitochondrial Glutamine Metabolism. Cancer Cell, 2013, 23, 450-463.	7.7	389
38	Accumulation of succinate controls activation of adipose tissue thermogenesis. Nature, 2018, 560, 102-106.	13.7	380
39	Inherited causes of clonal haematopoiesis in 97,691 whole genomes. Nature, 2020, 586, 763-768.	13.7	376
40	Metabolic control of type 1 regulatory T cell differentiation by AHR and HIF1-Î±. Nature Medicine, 2015, 21, 638-646.	15.2	374
41	Metabolomics: an emerging but powerful tool for precision medicine. Journal of Physical Education and Sports Management, 2015, 1, a000588.	0.5	373
42	Reduced Inflammation and Tissue Damage in Transgenic Rabbits Overexpressing 15-Lipoxygenase and Endogenous Anti-inflammatory Lipid Mediators. Journal of Immunology, 2003, 171, 6856-6865.	0.4	364
43	Inhibition of Dihydroorotate Dehydrogenase Overcomes Differentiation Blockade in Acute Myeloid Leukemia. Cell, 2016, 167, 171-186.e15.	13.5	353
44	The landscape of cancer cell line metabolism. Nature Medicine, 2019, 25, 850-860.	15.2	350
45	Mitochondrial ROS regulate thermogenic energy expenditure and sulfenylation of UCP1. Nature, 2016, 532, 112-116.	13.7	341
46	A Synthetic Antagonist for the Peroxisome Proliferator-activated Receptor Î³ Inhibits Adipocyte Differentiation. Journal of Biological Chemistry, 2000, 275, 1873-1877.	1.6	337
47	Metabolic Signatures of Exercise in Human Plasma. Science Translational Medicine, 2010, 2, 33ra37.	5.8	337
48	Mitochondrial dysfunction remodels one-carbon metabolism in human cells. ELife, 2016, 5, .	2.8	332
49	Global chemical effects of the microbiome include new bile-acid conjugations. Nature, 2020, 579, 123-129.	13.7	316
50	CD5L/AIM Regulates Lipid Biosynthesis and Restrains Th17 Cell Pathogenicity. Cell, 2015, 163, 1413-1427.	13.5	313
51	Metabolic recycling of ammonia via glutamate dehydrogenase supports breast cancer biomass. Science, 2017, 358, 941-946.	6.0	303
52	Flavin-containing monooxygenase 3 as a potential player in diabetes-associated atherosclerosis. Nature Communications, 2015, 6, 6498.	5.8	291
53	Nutrient-sensitized screening for drugs that shift energy metabolism from mitochondrial respiration to glycolysis. Nature Biotechnology, 2010, 28, 249-255.	9.4	290
54	Cell-State-Specific Metabolic Dependency in Hematopoiesis and Leukemogenesis. Cell, 2014, 158, 1309-1323.	13.5	289

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55	A Genome-wide Association Study of the Human Metabolome in a Community-Based Cohort. Cell Metabolism, 2013, 18, 130-143.	7.2	274
56	Bacteroides-Derived Sphingolipids Are Critical for Maintaining Intestinal Homeostasis and Symbiosis. Cell Host and Microbe, 2019, 25, 668-680.e7.	5.1	274
57	Hypoxia-Mediated Increases in l -2-hydroxyglutarate Coordinate the Metabolic Response to Reductive Stress. Cell Metabolism, 2015, 22, 291-303.	7.2	270
58	A library of human gut bacterial isolates paired with longitudinal multiomics data enables mechanistic microbiome research. Nature Medicine, 2019, 25, 1442-1452.	15.2	255
59	De novo NAD+ biosynthetic impairment in acute kidney injury in humans. Nature Medicine, 2018, 24, 1351-1359.	15.2	250
60	The Deacetylase Sirt6 Activates the Acetyltransferase GCN5 and Suppresses Hepatic Gluconeogenesis. Molecular Cell, 2012, 48, 900-913.	4.5	246
61	Cycling cancer persister cells arise from lineages with distinct programs. Nature, 2021, 596, 576-582.	13.7	236
62	A Combined Epidemiologic and Metabolomic Approach Improves CKD Prediction. Journal of the American Society of Nephrology: JASN, 2013, 24, 1330-1338.	3.0	233
63	Plasma Ceramides, Mediterranean Diet, and Incident Cardiovascular Disease in the PREDIMED Trial (PrevenciÃ³n con Dieta MediterrÃ¡nea). Circulation, 2017, 135, 2028-2040.	1.6	227
64	A diabetes-predictive amino acid score and future cardiovascular disease. European Heart Journal, 2013, 34, 1982-1989.	1.0	223
65	Local and systemic delivery of a stable aspirin-triggered lipoxin prevents neutrophil recruitment in vivo. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 8247-8252.	3.3	221
66	A metastasis map of human cancer cell lines. Nature, 2020, 588, 331-336.	13.7	214
67	Human gut bacteria produce ÎĪ—17-modulating bileÂacid metabolites. Nature, 2022, 603, 907-912.	13.7	210
68	Programming human pluripotent stem cells into white and brown adipocytes. Nature Cell Biology, 2012, 14, 209-219.	4.6	209
69	MCT1-mediated transport of a toxic molecule is an effective strategy for targeting glycolytic tumors. Nature Genetics, 2013, 45, 104-108.	9.4	204
70	Plasma Branched-Chain Amino Acids and Incident Cardiovascular Disease in the PREDIMED Trial. Clinical Chemistry, 2016, 62, 582-592.	1.5	203
71	Metabolic modeling of single Th17 cells reveals regulators of autoimmunity. Cell, 2021, 184, 4168-4185.e21.	13.5	203
72	Neutrophil-mediated changes in vascular permeability are inhibited by topical application of aspirin-triggered 15-epi-lipoxin A4 and novel lipoxin B4 stable analogues.. Journal of Clinical Investigation, 1998, 101, 819-826.	3.9	202

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73	Leukotriene B4 receptor transgenic mice reveal novel protective roles for lipoxins and aspirin-triggered lipoxins in reperfusion. Journal of Clinical Investigation, 1999, 104, 309-316.	3.9	197
74	A Hypoxia-Induced Positive Feedback Loop Promotes Hypoxia-Inducible Factor 1Î± Stability through miR-210 Suppression of Glycerol-3-Phosphate Dehydrogenase 1-Like. Molecular and Cellular Biology, 2011, 31, 2696-2706.	1.1	195
75	Lipoxin A4Analogues Inhibit Leukocyte Recruitment toPorphyromonas gingivalis:Â A Role for Cyclooxygenase-2 and Lipoxins in Periodontal Diseaseâ€. Biochemistry, 2000, 39, 4761-4768.	1.2	191
76	Reproducibility of Metabolomic Profiles among Men and Women in 2 Large Cohort Studies. Clinical Chemistry, 2013, 59, 1657-1667.	1.5	189
77	Retinal lipid and glucose metabolism dictates angiogenesis through the lipid sensor Ffar1. Nature Medicine, 2016, 22, 439-445.	15.2	183
78	Involvement of a gutâ€“retina axis in protection against dietary glycemia-induced age-related macular degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E4472-E4481.	3.3	179
79	Metabolic Predictors of Incident Coronary Heart Disease in Women. Circulation, 2018, 137, 841-853.	1.6	177
80	Predictive metabolomic profiling of microbial communities using amplicon or metagenomic sequences. Nature Communications, 2019, 10, 3136.	5.8	176
81	Metabolite Profiling Identifies Markers of Uremia. Journal of the American Society of Nephrology: JASN, 2010, 21, 1041-2051.	3.0	175
82	Lipidomic Analysis of Î±-Synuclein Neurotoxicity Identifies Stearoyl CoA Desaturase as a Target for Parkinson Treatment. Molecular Cell, 2019, 73, 1001-1014.e8.	4.5	173
83	mTOR Complex 1 Plays Critical Roles in Hematopoiesis and Pten-Loss-Evoked Leukemogenesis. Cell Stem Cell, 2012, 11, 429-439.	5.2	172
84	Aspirin-tolerant asthmatics generate more lipoxins than aspirin-intolerant asthmatics. European Respiratory Journal, 2000, 16, 44-49.	3.1	171
85	A role for bacterial urease in gut dysbiosis and Crohnâ€™s disease. Science Translational Medicine, 2017, 9, .	5.8	171
86	Oxidoreductases in Lipoxin A4 Metabolic Inactivation. Journal of Biological Chemistry, 2000, 275, 25372-25380.	1.6	165
87	Gut microbiota modulate neurobehavior through changes in brain insulin sensitivity and metabolism. Molecular Psychiatry, 2018, 23, 2287-2301.	4.1	161
88	Diet, Genetics, and the Gut Microbiome Drive Dynamic Changes in Plasma Metabolites. Cell Reports, 2018, 22, 3072-3086.	2.9	159
89	Cell Surface Proteomic Map of HIV Infection RevealsÂAntagonism of Amino Acid Metabolism by Vpu and Nef. Cell Host and Microbe, 2015, 18, 409-423.	5.1	158
90	Assessing the contribution of rare variants to complex trait heritability from whole-genome sequence data. Nature Genetics, 2022, 54, 263-273.	9.4	156

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91	Protective Effects of the Mediterranean Diet on Type 2 Diabetes and Metabolic Syndrome. Journal of Nutrition, 2016, 146, 920S-927S.	1.3	155
92	Metabolomic Profiles of Body Mass Index in the Framingham Heart Study Reveal Distinct Cardiometabolic Phenotypes. PLoS ONE, 2016, 11, e0148361.	1.1	155
93	Recurrent Clostridium difficile infection associates with distinct bile acid and microbiome profiles. Alimentary Pharmacology and Therapeutics, 2016, 43, 1142-1153.	1.9	151
94	Molecular Transducers of Physical Activity Consortium (MoTrPAC): Mapping the Dynamic Responses to Exercise. Cell, 2020, 181, 1464-1474.	13.5	147
95	Fatty acid synthesis is required for breast cancer brain metastasis. Nature Cancer, 2021, 2, 414-428.	5.7	147
96	Dynamic incorporation of multiple in silico functional annotations empowers rare variant association analysis of large whole-genome sequencing studies at scale. Nature Genetics, 2020, 52, 969-983.	9.4	146
97	Revealing disease-associated pathways by network integration of untargeted metabolomics. Nature Methods, 2016, 13, 770-776.	9.0	145
98	Homeostatic control of metabolic and functional fitness of Treg cells by LKB1 signalling. Nature, 2017, 548, 602-606.	13.7	143
99	Metabolomic adaptations and correlates of survival to immune checkpoint blockade. Nature Communications, 2019, 10, 4346.	5.8	139
100	Plasma Lipidomic Profiling and Risk of Type 2 Diabetes in the PREDIMED Trial. Diabetes Care, 2018, 41, 2617-2624.	4.3	138
101	The Mediterranean diet, plasma metabolome, and cardiovascular disease risk. European Heart Journal, 2020, 41, 2645-2656.	1.0	138
102	Role of dietary fiber in the recovery of the human gut microbiome and its metabolome. Cell Host and Microbe, 2021, 29, 394-407.e5.	5.1	137
103	Titration of mitochondrial fusion rescues Mff-deficient cardiomyopathy. Journal of Cell Biology, 2015, 211, 795-805.	2.3	131
104	Deposition of Monomeric, Not Oligomeric, AÎ² Mediates Growth of Alzheimer's Disease Amyloid Plaques in Human Brain Preparationsâ€. Biochemistry, 1999, 38, 10424-10431.	1.2	130
105	Antibiotic effects on gut microbiota and metabolism are host dependent. Journal of Clinical Investigation, 2016, 126, 4430-4443.	3.9	130
106	Metabolite Profiles During Oral Glucose Challenge. Diabetes, 2013, 62, 2689-2698.	0.3	127
107	A plasma signature of human mitochondrial disease revealed through metabolic profiling of spent media from cultured muscle cells. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1571-1575.	3.3	126
108	Plasma acylcarnitines and risk of cardiovascular disease: effect of Mediterranean diet interventions. American Journal of Clinical Nutrition, 2016, 103, 1408-1416.	2.2	124

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109	Germline loss of PKM2 promotes metabolic distress and hepatocellular carcinoma. Genes and Development, 2016, 30, 1020-1033.	2.7	122
110	Type 2 Diabetes Variants Disrupt Function of SLC16A11 through Two Distinct Mechanisms. Cell, 2017, 170, 199-212.e20.	13.5	121
111	Distinct metabolomic signatures are associated with longevity in humans. Nature Communications, 2015, 6, 6791.	5.8	120
112	Metabolic Control of Astrocyte Pathogenic Activity via cPLA2-MAVS. Cell, 2019, 179, 1483-1498.e22.	13.5	120
113	Targeting MTHFD2 in acute myeloid leukemia. Journal of Experimental Medicine, 2016, 213, 1285-1306.	4.2	118
114	The contributions of aspirin and microbial oxygenase to the biosynthesis of anti-inflammatory resolvins: Novel oxygenase products from Ï‰-3 polyunsaturated fatty acids. Biochemical and Biophysical Research Communications, 2005, 338, 149-157.	1.0	115
115	Dimethylguanidino valeric acid is a marker of liver fat and predicts diabetes. Journal of Clinical Investigation, 2017, 127, 4394-4402.	3.9	115
116	Altered exocrine function can drive adipose wasting in early pancreatic cancer. Nature, 2018, 558, 600-604.	13.7	114
117	A Metabolic Signature of Mitochondrial Dysfunction Revealed through a Monogenic Form of Leigh Syndrome. Cell Reports, 2015, 13, 981-989.	2.9	113
118	Identification and Application of Gene Expression Signatures Associated with Lifespan Extension. Cell Metabolism, 2019, 30, 573-593.e8.	7.2	113
119	Lipoxin A4 and Aspirin-Triggered 15-epi-Lipoxin A4 Inhibit Human Neutrophil Migration: Comparisons Between Synthetic 15 Epimers in Chemotaxis and Transmigration with Microvessel Endothelial Cells and Epithelial Cells. Journal of Immunology, 2003, 170, 2688-2694.	0.4	111
120	Letm1, the mitochondrial Ca ²⁺ /H ⁺ antiporter, is essential for normal glucose metabolism and alters brain function in Wolfâ€“Hirschhorn syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2249-54.	3.3	110
121	Comprehensive Metabolomic Profiling and Incident Cardiovascular Disease: A Systematic Review. Journal of the American Heart Association, 2017, 6, .	1.6	110
122	A Plasma Longâ€Chain Acylcarnitine Predicts Cardiovascular Mortality in Incident Dialysis Patients. Journal of the American Heart Association, 2013, 2, e000542.	1.6	109
123	Integrative Biological Analysis of the APOE*3-Leiden Transgenic Mouse. OMICS A Journal of Integrative Biology, 2004, 8, 3-13.	1.0	108
124	EGLN1 Inhibition and Rerouting of Î±-Ketoglutarate Suffice for Remote Ischemic Protection. Cell, 2016, 164, 884-895.	13.5	108
125	Hepatic NADH reductive stress underlies common variation in metabolic traits. Nature, 2020, 583, 122-126.	13.7	108
126	Metabolic consequences of mitochondrial coenzyme A deficiency in patients with PANK2 mutations. Molecular Genetics and Metabolism, 2012, 105, 463-471.	0.5	106

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127	Organization of the Mammalian Metabolome according to Organ Function, Lineage Specialization, and Longevity. Cell Metabolism, 2015, 22, 332-343.	7.2	104
128	Comparison of Proteomic Assessment Methods in Multiple Cohort Studies. Proteomics, 2020, 20, e1900278.	1.3	103
129	Metabolite Profiles of Diabetes Incidence and Intervention Response in the Diabetes Prevention Program. Diabetes, 2016, 65, 1424-1433.	0.3	101
130	Towards quality assurance and quality control in untargeted metabolomics studies. Metabolomics, 2019, 15, 4.	1.4	101
131	A Molecular Defect in Intracellular Lipid Signaling in Human Neutrophils in Localized Aggressive Periodontal Tissue Damage. Journal of Immunology, 2004, 172, 1856-1861.	0.4	98
132	Host and gut microbial tryptophan metabolism and type 2 diabetes: an integrative analysis of host genetics, diet, gut microbiome and circulating metabolites in cohort studies. Gut, 2022, 71, 1095-1105.	6.1	98
133	Plasma Metabolites From Choline Pathway and Risk of Cardiovascular Disease in the PREDIMED (Prevention With Mediterranean Diet) Study. Journal of the American Heart Association, 2017, 6, .	1.6	95
134	Circulating markers of NADH-reductive stress correlate with mitochondrial disease severity. Journal of Clinical Investigation, 2021, 131, .	3.9	95
135	Skeletal muscle transcriptional coactivator PGC-1Î± mediates mitochondrial, but not metabolic, changes during calorie restriction. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2931-2936.	3.3	94
136	Effects of sodium benzoate, a widely used food preservative, on glucose homeostasis and metabolic profiles in humans. Molecular Genetics and Metabolism, 2015, 114, 73-79.	0.5	93
137	Lipoxin B₄regulates human monocyte/neutrophil adherence and motility: design of stable lipoxin B₄analogs with increased biologic activity. FASEB Journal, 1998, 12, 487-494.	0.2	92
138	Rictor/mTORC2 Loss in the Myf5 Lineage Reprograms Brown Fat Metabolism and Protects Mice against Obesity and Metabolic Disease. Cell Reports, 2014, 8, 256-271.	2.9	92
139	The circulating metabolome of human starvation. JCI Insight, 2018, 3, .	2.3	92
140	Starved epithelial cells uptake extracellular matrix for survival. Nature Communications, 2017, 8, 13989.	5.8	91
141	A haploid genetic screen identifies the major facilitator domain containing 2A (MFSD2A) transporter as a key mediator in the response to tunicamycin. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11756-11765.	3.3	90
142	Plasma branched chain/aromatic amino acids, enriched Mediterranean diet and risk of type 2 diabetes: case-cohort study within the PREDIMED Trial. Diabetologia, 2018, 61, 1560-1571.	2.9	89
143	Polyunsaturated Fatty Acid Desaturation Is a Mechanism for Glycolytic NAD+ Recycling. Cell Metabolism, 2019, 29, 856-870.e7.	7.2	87
144	Metabolomic profiling in the prediction of gestational diabetes mellitus. Diabetologia, 2015, 58, 1329-1332.	2.9	86

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145	Neuronal Tsc1/2 complex controls autophagy through AMPK-dependent regulation of ULK1. Human Molecular Genetics, 2014, 23, 3865-3874.	1.4	85
146	Multi-omics reveal microbial determinants impacting responses to biologic therapies in inflammatory bowel disease. Cell Host and Microbe, 2021, 29, 1294-1304.e4.	5.1	85
147	Metabolomic profiles as reliable biomarkers of dietary composition. American Journal of Clinical Nutrition, 2017, 105, 547-554.	2.2	84
148	The cytoplasmic prolyl-tRNA synthetase of the malaria parasite is a dual-stage target of febrifugine and its analogs. Science Translational Medicine, 2015, 7, 288ra77.	5.8	82
149	Role of angiopoietin-like 3 (ANGPTL3) in regulating plasma level of low-density lipoprotein cholesterol. Atherosclerosis, 2018, 268, 196-206.	0.4	81
150	The Consortium of Metabolomics Studies (COMETS): Metabolomics in 47 Prospective Cohort Studies. American Journal of Epidemiology, 2019, 188, 991-1012.	1.6	81
151	Metabolic Profiling of Right Ventricular-Pulmonary Vascular Function Reveals Circulating Biomarkers of Pulmonary Hypertension. Journal of the American College of Cardiology, 2016, 67, 174-189.	1.2	79
152	Plasma lipidomic profiles and cardiovascular events in a randomized intervention trial with the Mediterranean diet. American Journal of Clinical Nutrition, 2017, 106, 973-983.	2.2	79
153	Cigarette Smoking and Pancreatic Cancer Survival. Journal of Clinical Oncology, 2017, 35, 1822-1828.	0.8	78
154	The metabolomics of asthma control: a promising link between genetics and disease. Immunity, Inflammation and Disease, 2015, 3, 224-238.	1.3	77
155	Cerebral tryptophan metabolism and outcome of tuberculous meningitis: an observational cohort study. Lancet Infectious Diseases, The, 2018, 18, 526-535.	4.6	77
156	Association of Tryptophan Metabolites with Incident Type 2 Diabetes in the PREDIMED Trial: A Caseâ€“Cohort Study. Clinical Chemistry, 2018, 64, 1211-1220.	1.5	76
157	Glycerol-3-phosphate is an FGF23 regulator derived from the injured kidney. Journal of Clinical Investigation, 2020, 130, 1513-1526.	3.9	75
158	Knockdown of Malic Enzyme 2 Suppresses Lung Tumor Growth, Induces Differentiation and Impacts PI3K/AKT Signaling. Scientific Reports, 2014, 4, 5414.	1.6	73
159	Metabolites of Glutamate Metabolism Are Associated With Incident Cardiovascular Events in the PREDIMED PREvenciÃ³n con Dieta MEDiterrÃ¡nea (PREDIMED) Trial. Journal of the American Heart Association, 2016, 5, .	1.6	73
160	Primer on Medical Genomics Part XIV: Introduction to Systems Biologyâ€”A New Approach to Understanding Disease and Treatment. Mayo Clinic Proceedings, 2004, 79, 651-658.	1.4	72
161	Steroid Hormone Function Controls Non-competitive Plasmodium Development in Anopheles. Cell, 2019, 177, 315-325.e14.	13.5	72
162	Early loss of mitochondrial complex I and rewiring of glutathione metabolism in renal oncocytoma. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6283-E6290.	3.3	70

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163	An exome array study of the plasma metabolome. Nature Communications, 2016, 7, 12360.	5.8	69
164	Cell culture-based profiling across mammals reveals DNA repair and metabolism as determinants of species longevity. ELife, 2016, 5, .	2.8	69
165	A high-resolution HLA reference panel capturing global population diversity enables multi-ancestry fine-mapping in HIV host response. Nature Genetics, 2021, 53, 1504-1516.	9.4	69
166	A systematic survey of lipids across mouse tissues. American Journal of Physiology - Endocrinology and Metabolism, 2014, 306, E854-E868.	1.8	67
167	Critical role for arginase 2 in obesity-associated pancreatic cancer. Nature Communications, 2017, 8, 242.	5.8	67
168	Metabolic Architecture of Acute Exercise Response in Middle-Aged Adults in the Community. Circulation, 2020, 142, 1905-1924.	1.6	65
169	Increases in Plasma Tryptophan Are Inversely Associated with Incident Cardiovascular Disease in the PrevenciÃ³n con Dieta MediterrÃ¡nea (PREDIMED) Study. Journal of Nutrition, 2017, 147, jn241711.	1.3	64
170	Dietary Intakes and Circulating Concentrations of Branched-Chain Amino Acids in Relation to Incident Type 2 Diabetes Risk Among High-Risk Women with a History of Gestational Diabetes Mellitus. Clinical Chemistry, 2018, 64, 1203-1210.	1.5	64
171	Branched chain and aromatic amino acids change acutely following two medical therapies for type 2 diabetes mellitus. Metabolism: Clinical and Experimental, 2013, 62, 1772-1778.	1.5	63
172	Inhibition of ATPIF1 Ameliorates Severe Mitochondrial Respiratory Chain Dysfunction in Mammalian Cells. Cell Reports, 2014, 7, 27-34.	2.9	62
173	Metabolomics of Chronic Kidney Disease Progression: A Case-Control Analysis in the Chronic Renal Insufficiency Cohort Study. American Journal of Nephrology, 2016, 43, 366-374.	1.4	62
174	Dimethylglycine Deficiency and the Development of Diabetes. Diabetes, 2015, 64, 3010-3016.	0.3	61
175	Phenotype Characterisation Using Integrated Gene Transcript, Protein and Metabolite Profiling. Applied Bioinformatics, 2004, 3, 205-217.	1.7	60
176	Plasma Acylcarnitines and Risk of Type 2 Diabetes in a Mediterranean Population at High Cardiovascular Risk. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 1508-1519.	1.8	60
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