

Clary B Clish

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.

365
papers

38,623
citations

96
h-index

192
g-index

442
ext. papers

50,207
ext. citations

13.4
avg, IF

7.04
L-index

#	Paper	IF	Citations
365	Regulation of ferroptotic cancer cell death by GPX4. <i>Cell</i> , 2014 , 156, 317-331	56.2	2104
364	Metabolite profiles and the risk of developing diabetes. <i>Nature Medicine</i> , 2011 , 17, 448-53	50.5	2044
363	Succinate is an inflammatory signal that induces IL-1 β through HIF-1 α <i>Nature</i> , 2013 , 496, 238-42	50.4	1930
362	Activation of a metabolic gene regulatory network downstream of mTOR complex 1. <i>Molecular Cell</i> , 2010 , 39, 171-83	17.6	1294
361	Lipid mediator class switching during acute inflammation: signals in resolution. <i>Nature Immunology</i> , 2001 , 2, 612-9	19.1	1052
360	Metabolite profiling identifies a key role for glycine in rapid cancer cell proliferation. <i>Science</i> , 2012 , 336, 1040-4	33.3	955
359	Novel functional sets of lipid-derived mediators with antiinflammatory actions generated from omega-3 fatty acids via cyclooxygenase 2-nonsteroidal antiinflammatory drugs and transcellular processing. <i>Journal of Experimental Medicine</i> , 2000 , 192, 1197-204	16.6	910
358	Multi-omics of the gut microbial ecosystem in inflammatory bowel diseases. <i>Nature</i> , 2019 , 569, 655-662	50.4	761
357	The histone deacetylase Sirt6 regulates glucose homeostasis via Hif1alpha. <i>Cell</i> , 2010 , 140, 280-93	56.2	755
356	The dynamics of the human infant gut microbiome in development and in progression toward type 1 diabetes. <i>Cell Host and Microbe</i> , 2015 , 17, 260-73	23.4	639
355	Type I interferons and microbial metabolites of tryptophan modulate astrocyte activity and central nervous system inflammation via the aryl hydrocarbon receptor. <i>Nature Medicine</i> , 2016 , 22, 586-97	50.5	629
354	SIRT3 opposes reprogramming of cancer cell metabolism through HIF1 α destabilization. <i>Cancer Cell</i> , 2011 , 19, 416-28	24.3	589
353	Pyruvate kinase M2 regulates Hif-1 α activity and IL-1 β induction and is a critical determinant of the warburg effect in LPS-activated macrophages. <i>Cell Metabolism</i> , 2015 , 21, 65-80	24.6	565
352	Gut microbiome structure and metabolic activity in inflammatory bowel disease. <i>Nature Microbiology</i> , 2019 , 4, 293-305	26.6	512
351	Environment Impacts the Metabolic Dependencies of Ras-Driven Non-Small Cell Lung Cancer. <i>Cell Metabolism</i> , 2016 , 23, 517-28	24.6	463
350	PGC1 α expression defines a subset of human melanoma tumors with increased mitochondrial capacity and resistance to oxidative stress. <i>Cancer Cell</i> , 2013 , 23, 287-301	24.3	462
349	Metabolic determinants of cancer cell sensitivity to glucose limitation and biguanides. <i>Nature</i> , 2014 , 508, 108-12	50.4	459

348	Lipid profiling identifies a triacylglycerol signature of insulin resistance and improves diabetes prediction in humans. <i>Journal of Clinical Investigation</i> , 2011 , 121, 1402-11	15.9	420
347	Metabolomics in Prediabetes and Diabetes: A Systematic Review and Meta-analysis. <i>Diabetes Care</i> , 2016 , 39, 833-46	14.6	418
346	Metabolite profiling identifies pathways associated with metabolic risk in humans. <i>Circulation</i> , 2012 , 125, 2222-31	16.7	401
345	Glutaminolysis and Fumarate Accumulation Integrate Immunometabolic and Epigenetic Programs in Trained Immunity. <i>Cell Metabolism</i> , 2016 , 24, 807-819	24.6	398
344	Elevation of circulating branched-chain amino acids is an early event in human pancreatic adenocarcinoma development. <i>Nature Medicine</i> , 2014 , 20, 1193-1198	50.5	383
343	β -Aminoisobutyric acid induces browning of white fat and hepatic β oxidation and is inversely correlated with cardiometabolic risk factors. <i>Cell Metabolism</i> , 2014 , 19, 96-108	24.6	369
342	A roadmap for interpreting (13)C metabolite labeling patterns from cells. <i>Current Opinion in Biotechnology</i> , 2015 , 34, 189-201	11.4	368
341	Correlating chemical sensitivity and basal gene expression reveals mechanism of action. <i>Nature Chemical Biology</i> , 2016 , 12, 109-16	11.7	365
340	PKM2 isoform-specific deletion reveals a differential requirement for pyruvate kinase in tumor cells. <i>Cell</i> , 2013 , 155, 397-409	56.2	333
339	Reduced inflammation and tissue damage in transgenic rabbits overexpressing 15-lipoxygenase and endogenous anti-inflammatory lipid mediators. <i>Journal of Immunology</i> , 2003 , 171, 6856-65	5.3	330
338	SIRT4 has tumor-suppressive activity and regulates the cellular metabolic response to DNA damage by inhibiting mitochondrial glutamine metabolism. <i>Cancer Cell</i> , 2013 , 23, 450-63	24.3	310
337	A synthetic antagonist for the peroxisome proliferator-activated receptor gamma inhibits adipocyte differentiation. <i>Journal of Biological Chemistry</i> , 2000 , 275, 1873-7	5.4	290
336	Metabolic control of type 1 regulatory T cell differentiation by AHR and HIF1- α . <i>Nature Medicine</i> , 2015 , 21, 638-46	50.5	282
335	2-Aminoadipic acid is a biomarker for diabetes risk. <i>Journal of Clinical Investigation</i> , 2013 , 123, 4309-17	15.9	281
334	Metabolic signatures of exercise in human plasma. <i>Science Translational Medicine</i> , 2010 , 2, 33ra37	17.5	276
333	Sequencing of 53,831 diverse genomes from the NHLBI TOPMed Program. <i>Nature</i> , 2021 , 590, 290-299	50.4	268
332	PGC1 α drives NAD biosynthesis linking oxidative metabolism to renal protection. <i>Nature</i> , 2016 , 531, 528-32	50.4	264
331	Targeted metabolomics. <i>Current Protocols in Molecular Biology</i> , 2012 , Chapter 30, Unit 30.2.1-24	2.9	261

330	Mitochondrial ROS regulate thermogenic energy expenditure and sulfenylation of UCP1. <i>Nature</i> , 2016 , 532, 112-6	50.4	251
329	MTAP deletion confers enhanced dependency on the PRMT5 arginine methyltransferase in cancer cells. <i>Science</i> , 2016 , 351, 1214-8	33.3	248
328	Blood-Brain Barrier Permeability Is Regulated by Lipid Transport-Dependent Suppression of Caveolae-Mediated Transcytosis. <i>Neuron</i> , 2017 , 94, 581-594.e5	13.9	244
327	Meta-omics analysis of elite athletes identifies a performance-enhancing microbe that functions via lactate metabolism. <i>Nature Medicine</i> , 2019 , 25, 1104-1109	50.5	242
326	Mitochondrial dysfunction remodels one-carbon metabolism in human cells. <i>ELife</i> , 2016 , 5,	8.9	237
325	Nutrient-sensitized screening for drugs that shift energy metabolism from mitochondrial respiration to glycolysis. <i>Nature Biotechnology</i> , 2010 , 28, 249-55	44.5	234
324	CD5L/AIM Regulates Lipid Biosynthesis and Restrains Th17 Cell Pathogenicity. <i>Cell</i> , 2015 , 163, 1413-27	56.2	220
323	Cell-state-specific metabolic dependency in hematopoiesis and leukemogenesis. <i>Cell</i> , 2014 , 158, 1309-1322	37.2	220
322	Flavin-containing monooxygenase 3 as a potential player in diabetes-associated atherosclerosis. <i>Nature Communications</i> , 2015 , 6, 6498	17.4	219
321	A GPX4-dependent cancer cell state underlies the clear-cell morphology and confers sensitivity to ferroptosis. <i>Nature Communications</i> , 2019 , 10, 1617	17.4	218
320	Inhibition of Dihydroorotate Dehydrogenase Overcomes Differentiation Blockade in Acute Myeloid Leukemia. <i>Cell</i> , 2016 , 167, 171-186.e15	56.2	214
319	Metabolomics: an emerging but powerful tool for precision medicine. <i>Journal of Physical Education and Sports Management</i> , 2015 , 1, a000588	2.8	207
318	Hypoxia-Mediated Increases in L-2-hydroxyglutarate Coordinate the Metabolic Response to Reductive Stress. <i>Cell Metabolism</i> , 2015 , 22, 291-303	24.6	206
317	Local and systemic delivery of a stable aspirin-triggered lipoxin prevents neutrophil recruitment in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 8247-52	11.5	206
316	Accumulation of succinate controls activation of adipose tissue thermogenesis. <i>Nature</i> , 2018 , 560, 102-106	106.4	204
315	The deacetylase Sirt6 activates the acetyltransferase GCN5 and suppresses hepatic gluconeogenesis. <i>Molecular Cell</i> , 2012 , 48, 900-13	17.6	202
314	The landscape of cancer cell line metabolism. <i>Nature Medicine</i> , 2019 , 25, 850-860	50.5	188
313	A genome-wide association study of the human metabolome in a community-based cohort. <i>Cell Metabolism</i> , 2013 , 18, 130-43	24.6	188

312	Metabolic recycling of ammonia via glutamate dehydrogenase supports breast cancer biomass. <i>Science</i> , 2017 , 358, 941-946	33.3	184
311	MCT1-mediated transport of a toxic molecule is an effective strategy for targeting glycolytic tumors. <i>Nature Genetics</i> , 2013 , 45, 104-8	36.3	178
310	Neutrophil-mediated changes in vascular permeability are inhibited by topical application of aspirin-triggered 15-epi-lipoxin A4 and novel lipoxin B4 stable analogues. <i>Journal of Clinical Investigation</i> , 1998 , 101, 819-26	15.9	178
309	Lipoxin A(4) analogues inhibit leukocyte recruitment to <i>Porphyromonas gingivalis</i> : a role for cyclooxygenase-2 and lipoxins in periodontal disease. <i>Biochemistry</i> , 2000 , 39, 4761-8	3.2	177
308	Programming human pluripotent stem cells into white and brown adipocytes. <i>Nature Cell Biology</i> , 2012 , 14, 209-19	23.4	176
307	A diabetes-predictive amino acid score and future cardiovascular disease. <i>European Heart Journal</i> , 2013 , 34, 1982-9	9.5	175
306	A combined epidemiologic and metabolomic approach improves CKD prediction. <i>Journal of the American Society of Nephrology: JASN</i> , 2013 , 24, 1330-8	12.7	172
305	Leukotriene B4 receptor transgenic mice reveal novel protective roles for lipoxins and aspirin-triggered lipoxins in reperfusion. <i>Journal of Clinical Investigation</i> , 1999 , 104, 309-16	15.9	164
304	A hypoxia-induced positive feedback loop promotes hypoxia-inducible factor 1 α stability through miR-210 suppression of glycerol-3-phosphate dehydrogenase 1-like. <i>Molecular and Cellular Biology</i> , 2011 , 31, 2696-706	4.8	163
303	Plasma Ceramides, Mediterranean Diet, and Incident Cardiovascular Disease in the PREDIMED Trial (Prevenci3n con Dieta Mediterr3nea). <i>Circulation</i> , 2017 , 135, 2028-2040	16.7	161
302	Aspirin-tolerant asthmatics generate more lipoxins than aspirin-intolerant asthmatics. <i>European Respiratory Journal</i> , 2000 , 16, 44-9	13.6	147
301	De novo NAD biosynthetic impairment in acute kidney injury in humans. <i>Nature Medicine</i> , 2018 , 24, 1351-1359	13.5	145
300	mTOR complex 1 plays critical roles in hematopoiesis and Pten-loss-evoked leukemogenesis. <i>Cell Stem Cell</i> , 2012 , 11, 429-39	18	145
299	Oxidoreductases in lipoxin A4 metabolic inactivation: a novel role for 15-onoprostaglandin 13-reductase/leukotriene B4 12-hydroxydehydrogenase in inflammation. <i>Journal of Biological Chemistry</i> , 2000 , 275, 25372-80	5.4	145
298	Cytochrome P450 oxidoreductase contributes to phospholipid peroxidation in ferroptosis. <i>Nature Chemical Biology</i> , 2020 , 16, 302-309	11.7	144
297	Metabolite profiling identifies markers of uremia. <i>Journal of the American Society of Nephrology: JASN</i> , 2010 , 21, 1041-1051	12.7	142
296	Reproducibility of metabolomic profiles among men and women in 2 large cohort studies. <i>Clinical Chemistry</i> , 2013 , 59, 1657-67	5.5	135
295	Global chemical effects of the microbiome include new bile-acid conjugations. <i>Nature</i> , 2020 , 579, 123-129	10.4	129

294	Plasma Branched-Chain Amino Acids and Incident Cardiovascular Disease in the PREDIMED Trial. <i>Clinical Chemistry</i> , 2016 , 62, 582-92	5.5	129
293	Retinal lipid and glucose metabolism dictates angiogenesis through the lipid sensor Ffar1. <i>Nature Medicine</i> , 2016 , 22, 439-45	50.5	127
292	Inherited causes of clonal haematopoiesis in 97,691 whole genomes. <i>Nature</i> , 2020 , 586, 763-768	50.4	127
291	A library of human gut bacterial isolates paired with longitudinal multiomics data enables mechanistic microbiome research. <i>Nature Medicine</i> , 2019 , 25, 1442-1452	50.5	125
290	Protective Effects of the Mediterranean Diet on Type 2 Diabetes and Metabolic Syndrome. <i>Journal of Nutrition</i> , 2015 , 146, 920S-927S	4.1	125
289	Plasticity of ether lipids promotes ferroptosis susceptibility and evasion. <i>Nature</i> , 2020 , 585, 603-608	50.4	121
288	Deposition of monomeric, not oligomeric, Aβ mediates growth of Alzheimer's disease amyloid plaques in human brain preparations. <i>Biochemistry</i> , 1999 , 38, 10424-31	3.2	119
287	Cell Surface Proteomic Map of HIV Infection Reveals Antagonism of Amino Acid Metabolism by Vpu and Nef. <i>Cell Host and Microbe</i> , 2015 , 18, 409-23	23.4	118
286	Involvement of a gut-retina axis in protection against dietary glycemia-induced age-related macular degeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E4472-E4481	11.5	117
285	Metabolomic Profiles of Body Mass Index in the Framingham Heart Study Reveal Distinct Cardiometabolic Phenotypes. <i>PLoS ONE</i> , 2016 , 11, e0148361	3.7	115
284	Bacteroides-Derived Sphingolipids Are Critical for Maintaining Intestinal Homeostasis and Symbiosis. <i>Cell Host and Microbe</i> , 2019 , 25, 668-680.e7	23.4	112
283	Lipidomic Analysis of α-Synuclein Neurotoxicity Identifies Stearoyl CoA Desaturase as a Target for Parkinson Treatment. <i>Molecular Cell</i> , 2019 , 73, 1001-1014.e8	17.6	112
282	Gut microbiota modulate neurobehavior through changes in brain insulin sensitivity and metabolism. <i>Molecular Psychiatry</i> , 2018 , 23, 2287-2301	15.1	109
281	A plasma signature of human mitochondrial disease revealed through metabolic profiling of spent media from cultured muscle cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 1571-5	11.5	109
280	Homeostatic control of metabolic and functional fitness of T cells by LKB1 signalling. <i>Nature</i> , 2017 , 548, 602-606	50.4	106
279	Revealing disease-associated pathways by network integration of untargeted metabolomics. <i>Nature Methods</i> , 2016 , 13, 770-6	21.6	106
278	Metabolic Predictors of Incident Coronary Heart Disease in Women. <i>Circulation</i> , 2018 , 137, 841-853	16.7	105
277	Metabolite profiles during oral glucose challenge. <i>Diabetes</i> , 2013 , 62, 2689-98	0.9	104

276	Recurrent <i>Clostridium difficile</i> infection associates with distinct bile acid and microbiome profiles. <i>Alimentary Pharmacology and Therapeutics</i> , 2016 , 43, 1142-53	6.1	102
275	The contributions of aspirin and microbial oxygenase to the biosynthesis of anti-inflammatory resolvins: novel oxygenase products from omega-3 polyunsaturated fatty acids. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 338, 149-57	3.4	101
274	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. <i>Journal of Immunology</i> , 2003 , 170, 2688-94	5.3	100
273	Diet, Genetics, and the Gut Microbiome Drive Dynamic Changes in Plasma Metabolites. <i>Cell Reports</i> , 2018 , 22, 3072-3086	10.6	99
272	Integrative biological analysis of the APOE*3-leiden transgenic mouse. <i>OMICS A Journal of Integrative Biology</i> , 2004 , 8, 3-13	3.8	99
271	Metabolic consequences of mitochondrial coenzyme A deficiency in patients with PANK2 mutations. <i>Molecular Genetics and Metabolism</i> , 2012 , 105, 463-71	3.7	97
270	Titration of mitochondrial fusion rescues Mff-deficient cardiomyopathy. <i>Journal of Cell Biology</i> , 2015 , 211, 795-805	7.3	96
269	Type 2 Diabetes Variants Disrupt Function of SLC16A11 through Two Distinct Mechanisms. <i>Cell</i> , 2017 , 170, 199-212.e20	56.2	94
268	Antibiotic effects on gut microbiota and metabolism are host dependent. <i>Journal of Clinical Investigation</i> , 2016 , 126, 4430-4443	15.9	94
267	A role for bacterial urease in gut dysbiosis and Crohn's disease. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	92
266	Germline loss of PKM2 promotes metabolic distress and hepatocellular carcinoma. <i>Genes and Development</i> , 2016 , 30, 1020-33	12.6	91
265	A molecular defect in intracellular lipid signaling in human neutrophils in localized aggressive periodontal tissue damage. <i>Journal of Immunology</i> , 2004 , 172, 1856-61	5.3	90
264	Metabolomic adaptations and correlates of survival to immune checkpoint blockade. <i>Nature Communications</i> , 2019 , 10, 4346	17.4	89
263	Predictive metabolomic profiling of microbial communities using amplicon or metagenomic sequences. <i>Nature Communications</i> , 2019 , 10, 3136	17.4	89
262	Lipoxin B4 regulates human monocyte/neutrophil adherence and motility: design of stable lipoxin B4 analogs with increased biologic activity. <i>FASEB Journal</i> , 1998 , 12, 487-94	0.9	87
261	Plasma acylcarnitines and risk of cardiovascular disease: effect of Mediterranean diet interventions. <i>American Journal of Clinical Nutrition</i> , 2016 , 103, 1408-16	7	86
260	Targeting MTHFD2 in acute myeloid leukemia. <i>Journal of Experimental Medicine</i> , 2016 , 213, 1285-306	16.6	85
259	Letm1, the mitochondrial Ca ²⁺ /H ⁺ antiporter, is essential for normal glucose metabolism and alters brain function in Wolf-Hirschhorn syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2249-54	11.5	85

258	Skeletal muscle transcriptional coactivator PGC-1 β mediates mitochondrial, but not metabolic, changes during calorie restriction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 2931-6	11.5	85
257	A plasma long-chain acylcarnitine predicts cardiovascular mortality in incident dialysis patients. <i>Journal of the American Heart Association</i> , 2013 , 2, e000542	6	83
256	Distinct metabolomic signatures are associated with longevity in humans. <i>Nature Communications</i> , 2015 , 6, 6791	17.4	81
255	A Metabolic Signature of Mitochondrial Dysfunction Revealed through a Monogenic Form of Leigh Syndrome. <i>Cell Reports</i> , 2015 , 13, 981-9	10.6	80
254	Metabolite Profiles of Diabetes Incidence and Intervention Response in the Diabetes Prevention Program. <i>Diabetes</i> , 2016 , 65, 1424-33	0.9	79
253	A haploid genetic screen identifies the major facilitator domain containing 2A (MFSD2A) transporter as a key mediator in the response to tunicamycin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 11756-65	11.5	79
252	Identifying Metabolomic Profiles of Insulinemic Dietary Patterns (OR31-03-19). <i>Current Developments in Nutrition</i> , 2019 , 3,	0.4	78
251	ASSOCIATIONS BETWEEN METABOLITES AND PHYSICAL FUNCTION IN OLDER BLACK MEN. <i>Innovation in Aging</i> , 2017 , 1, 426-426	0.1	78
250	Plasma Lipidomic Profiling and Risk of Type 2 Diabetes in the PREDIMED Trial. <i>Diabetes Care</i> , 2018 , 41, 2617-2624	14.6	78
249	Altered exocrine function can drive adipose wasting in early pancreatic cancer. <i>Nature</i> , 2018 , 558, 600-604	5.4	77
248	A metastasis map of human cancer cell lines. <i>Nature</i> , 2020 , 588, 331-336	50.4	76
247	Neuronal Tsc1/2 complex controls autophagy through AMPK-dependent regulation of ULK1. <i>Human Molecular Genetics</i> , 2014 , 23, 3865-74	5.6	73
246	EGLN1 Inhibition and Rerouting of β -Ketoglutarate Suffice for Remote Ischemic Protection. <i>Cell</i> , 2016 , 164, 884-95	56.2	71
245	Dimethylguanidino valeric acid is a marker of liver fat and predicts diabetes. <i>Journal of Clinical Investigation</i> , 2017 , 127, 4394-4402	15.9	71
244	Comprehensive Metabolomic Profiling and Incident Cardiovascular Disease: A Systematic Review. <i>Journal of the American Heart Association</i> , 2017 , 6,	6	70
243	Rictor/mTORC2 loss in the Myf5 lineage reprograms brown fat metabolism and protects mice against obesity and metabolic disease. <i>Cell Reports</i> , 2014 , 8, 256-71	10.6	69
242	Organization of the Mammalian Metabolome according to Organ Function, Lineage Specialization, and Longevity. <i>Cell Metabolism</i> , 2015 , 22, 332-43	24.6	68
241	Effects of sodium benzoate, a widely used food preservative, on glucose homeostasis and metabolic profiles in humans. <i>Molecular Genetics and Metabolism</i> , 2015 , 114, 73-9	3.7	66

240	Primer on medical genomics. Part XIV: Introduction to systems biology--a new approach to understanding disease and treatment. <i>Mayo Clinic Proceedings</i> , 2004 , 79, 651-8	6.4	65
239	Starved epithelial cells uptake extracellular matrix for survival. <i>Nature Communications</i> , 2017 , 8, 13989	17.4	63
238	Metabolomic profiling in the prediction of gestational diabetes mellitus. <i>Diabetologia</i> , 2015 , 58, 1329-32	10.3	63
237	Towards quality assurance and quality control in untargeted metabolomics studies. <i>Metabolomics</i> , 2019 , 15, 4	4.7	63
236	Metabolic Control of Astrocyte Pathogenic Activity via cPLA2-MAVS. <i>Cell</i> , 2019 , 179, 1483-1498.e22	56.2	59
235	Plasma Metabolites From Choline Pathway and Risk of Cardiovascular Disease in the PREDIMED (Prevention With Mediterranean Diet) Study. <i>Journal of the American Heart Association</i> , 2017 , 6,	6	58
234	The metabolomics of asthma control: a promising link between genetics and disease. <i>Immunity, Inflammation and Disease</i> , 2015 , 3, 224-38	2.4	57
233	Metabolomic profiles as reliable biomarkers of dietary composition. <i>American Journal of Clinical Nutrition</i> , 2017 , 105, 547-554	7	56
232	Cigarette Smoking and Pancreatic Cancer Survival. <i>Journal of Clinical Oncology</i> , 2017 , 35, 1822-1828	2.2	55
231	Metabolic Profiling of Right Ventricular-Pulmonary Vascular Function Reveals Circulating Biomarkers of Pulmonary Hypertension. <i>Journal of the American College of Cardiology</i> , 2016 , 67, 174-189	15.1	55
230	Identification and Application of Gene Expression Signatures Associated with Lifespan Extension. <i>Cell Metabolism</i> , 2019 , 30, 573-593.e8	24.6	55
229	Knockdown of malic enzyme 2 suppresses lung tumor growth, induces differentiation and impacts PI3K/AKT signaling. <i>Scientific Reports</i> , 2014 , 4, 5414	4.9	55
228	The cytoplasmic prolyl-tRNA synthetase of the malaria parasite is a dual-stage target of febrifugine and its analogs. <i>Science Translational Medicine</i> , 2015 , 7, 288ra77	17.5	55
227	Phenotype characterisation using integrated gene transcript, protein and metabolite profiling. <i>Applied Bioinformatics</i> , 2004 , 3, 205-17		55
226	The Mediterranean diet, plasma metabolome, and cardiovascular disease risk. <i>European Heart Journal</i> , 2020 , 41, 2645-2656	9.5	54
225	Plasma branched chain/aromatic amino acids, enriched Mediterranean diet and risk of type 2 diabetes: case-cohort study within the PREDIMED Trial. <i>Diabetologia</i> , 2018 , 61, 1560-1571	10.3	53
224	Role of angiotensin-like 3 (ANGPTL3) in regulating plasma level of low-density lipoprotein cholesterol. <i>Atherosclerosis</i> , 2018 , 268, 196-206	3.1	52
223	Molecular Transducers of Physical Activity Consortium (MoTrPAC): Mapping the Dynamic Responses to Exercise. <i>Cell</i> , 2020 , 181, 1464-1474	56.2	51

222	Correlation network analysis for data integration and biomarker selection. <i>Molecular BioSystems</i> , 2008 , 4, 249-59		51
221	Formation of endogenous "antiinflammatory" lipid mediators by transcellular biosynthesis. Lipoxins and aspirin-triggered lipoxins inhibit neutrophil recruitment and vascular permeability. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2000 , 161, S95-S101	10.2	51
220	Increases in Plasma Tryptophan Are Inversely Associated with Incident Cardiovascular Disease in the Prevenció con Dieta Mediterránea (PREDIMED) Study. <i>Journal of Nutrition</i> , 2017 , 147, 314-322	4.1	49
219	Plasma lipidomic profiles and cardiovascular events in a randomized intervention trial with the Mediterranean diet. <i>American Journal of Clinical Nutrition</i> , 2017 , 106, 973-983	7	49
218	Branched chain and aromatic amino acids change acutely following two medical therapies for type 2 diabetes mellitus. <i>Metabolism: Clinical and Experimental</i> , 2013 , 62, 1772-8	12.7	48
217	An exome array study of the plasma metabolome. <i>Nature Communications</i> , 2016 , 7, 12360	17.4	47
216	Critical role for arginase 2 in obesity-associated pancreatic cancer. <i>Nature Communications</i> , 2017 , 8, 242	17.4	47
215	Cerebral tryptophan metabolism and outcome of tuberculous meningitis: an observational cohort study. <i>Lancet Infectious Diseases</i> , 2018 , 18, 526-535	25.5	46
214	Inhibition of ATPIF1 ameliorates severe mitochondrial respiratory chain dysfunction in mammalian cells. <i>Cell Reports</i> , 2014 , 7, 27-34	10.6	46
213	The circulating metabolome of human starvation. <i>JCI Insight</i> , 2018 , 3,	9.9	46
212	The Consortium of Metabolomics Studies (COMETS): Metabolomics in 47 Prospective Cohort Studies. <i>American Journal of Epidemiology</i> , 2019 , 188, 991-1012	3.8	44
211	Hepatic NADH reductive stress underlies common variation in metabolic traits. <i>Nature</i> , 2020 , 583, 122-126	136.4	44
210	Early loss of mitochondrial complex I and rewiring of glutathione metabolism in renal oncocytoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E6283-E6290	11.5	44
209	A systematic survey of lipids across mouse tissues. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014 , 306, E854-68	6	44
208	Age- and diet-associated metabolome remodeling characterizes the aging process driven by damage accumulation. <i>ELife</i> , 2014 , 3, e02077	8.9	44
207	Metabolites of Glutamate Metabolism Are Associated With Incident Cardiovascular Events in the PREDIMED PREvenció con Dieta MEDiterránea (PREDIMED) Trial. <i>Journal of the American Heart Association</i> , 2016 , 5,	6	44
206	Expression of 5-lipoxygenase in pulmonary artery endothelial cells. <i>Biochemical Journal</i> , 2002 , 361, 267-276	376	43
205	Polyunsaturated Fatty Acid Desaturation Is a Mechanism for Glycolytic NAD Recycling. <i>Cell Metabolism</i> , 2019 , 29, 856-870.e7	24.6	42

204	Association of Tryptophan Metabolites with Incident Type 2 Diabetes in the PREDIMED Trial: A Case-Cohort Study. <i>Clinical Chemistry</i> , 2018 , 64, 1211-1220	5.5	42
203	Transcellular regulation of eicosanoid biosynthesis. <i>Methods in Molecular Biology</i> , 1999 , 120, 119-44	1.4	42
202	Cell culture-based profiling across mammals reveals DNA repair and metabolism as determinants of species longevity. <i>ELife</i> , 2016 , 5,	8.9	42
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46	A prospective analysis of circulating plasma metabolomics and ovarian cancer risk		2
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