

# Warwick B Dunn

## List of Publications by Citations

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151  
papers

15,398  
citations

56  
h-index

123  
g-index

164  
ext. papers

17,679  
ext. citations

6.7  
avg, IF

6.42  
L-index

#	Paper	IF	Citations
151	Procedures for large-scale metabolic profiling of serum and plasma using gas chromatography and liquid chromatography coupled to mass spectrometry. <i>Nature Protocols</i> , <b>2011</b> , 6, 1060-83	18.8	1527
150	Metabolomics by numbers: acquiring and understanding global metabolite data. <i>Trends in Biotechnology</i> , <b>2004</b> , 22, 245-52	15.1	1001
149	Metabolomics: Current analytical platforms and methodologies. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2005</b> , 24, 285-294	14.6	820
148	A community-driven global reconstruction of human metabolism. <i>Nature Biotechnology</i> , <b>2013</b> , 31, 419-25	14.5	746
147	Measuring the metabolome: current analytical technologies. <i>Analyst, The</i> , <b>2005</b> , 130, 606-25	5	707
146	Systems level studies of mammalian metabolomes: the roles of mass spectrometry and nuclear magnetic resonance spectroscopy. <i>Chemical Society Reviews</i> , <b>2011</b> , 40, 387-426	58.5	565
145	A consensus yeast metabolic network reconstruction obtained from a community approach to systems biology. <i>Nature Biotechnology</i> , <b>2008</b> , 26, 1155-60	44.5	471
144	Mass appeal: metabolite identification in mass spectrometry-focused untargeted metabolomics. <i>Metabolomics</i> , <b>2013</b> , 9, 44-66	4.7	369
143	Metabolomics enables precision medicine: "A White Paper, Community Perspective". <i>Metabolomics</i> , <b>2016</b> , 12, 149	4.7	327
142	The importance of experimental design and QC samples in large-scale and MS-driven untargeted metabolomic studies of humans. <i>Bioanalysis</i> , <b>2012</b> , 4, 2249-64	2.1	321
141	Metabolic fingerprinting as a diagnostic tool. <i>Pharmacogenomics</i> , <b>2007</b> , 8, 1243-66	2.6	313
140	Metabolic footprinting and systems biology: the medium is the message. <i>Nature Reviews Microbiology</i> , <b>2005</b> , 3, 557-65	22.2	310
139	Development of a robust and repeatable UPLC-MS method for the long-term metabolomic study of human serum. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 1357-64	7.8	306
138	Guidelines and considerations for the use of system suitability and quality control samples in mass spectrometry assays applied in untargeted clinical metabolomic studies. <i>Metabolomics</i> , <b>2018</b> , 14, 72	4.7	303
137	Fingerprinting food: current technologies for the detection of food adulteration and contamination. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 5706-27	58.5	283
136	Global metabolic profiling of Escherichia coli cultures: an evaluation of methods for quenching and extraction of intracellular metabolites. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 2939-48	7.8	251
135	The role of metabolites and metabolomics in clinically applicable biomarkers of disease. <i>Archives of Toxicology</i> , <b>2011</b> , 85, 5-17	5.8	233

134	Robust early pregnancy prediction of later preeclampsia using metabolomic biomarkers. <i>Hypertension</i> , <b>2010</b> , 56, 741-9	8.5	215
133	Mass spectrometry tools and metabolite-specific databases for molecular identification in metabolomics. <i>Analyst, The</i> , <b>2009</b> , 134, 1322-32	5	215
132	Growth control of the eukaryote cell: a systems biology study in yeast. <i>Journal of Biology</i> , <b>2007</b> , 6, 4		208
131	Current trends and future requirements for the mass spectrometric investigation of microbial, mammalian and plant metabolomes. <i>Physical Biology</i> , <b>2008</b> , 5, 011001	3	205
130	Molecular phenotyping of a UK population: defining the human serum metabolome. <i>Metabolomics</i> , <b>2015</b> , 11, 9-26	4.7	167
129	Metabolite identification: are you sure? And how do your peers gauge your confidence?. <i>Metabolomics</i> , <b>2014</b> , 10, 350-353	4.7	162
128	Automated workflows for accurate mass-based putative metabolite identification in LC/MS-derived metabolomic datasets. <i>Bioinformatics</i> , <b>2011</b> , 27, 1108-12	7.2	156
127	Huntington disease patients and transgenic mice have similar pro-catabolic serum metabolite profiles. <i>Brain</i> , <b>2006</b> , 129, 877-86	11.2	155
126	Non-targeted UHPLC-MS metabolomic data processing methods: a comparative investigation of normalisation, missing value imputation, transformation and scaling. <i>Metabolomics</i> , <b>2016</b> , 12, 93	4.7	155
125	Development and performance of a gas chromatography-time-of-flight mass spectrometry analysis for large-scale nontargeted metabolomic studies of human serum. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 7038-46	7.8	152
124	Metabolic profiling of serum using Ultra Performance Liquid Chromatography and the LTQ-Orbitrap mass spectrometry system. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2008</b> , 871, 288-98	3.2	151
123	How close are we to complete annotation of metabolomes?. <i>Current Opinion in Chemical Biology</i> , <b>2017</b> , 36, 64-69	9.7	149
122	A metabolome pipeline: from concept to data to knowledge. <i>Metabolomics</i> , <b>2005</b> , 1, 39-51	4.7	138
121	<sup>1</sup> H NMR, GC-EI-TOFMS, and data set correlation for fruit metabolomics: application to spatial metabolite analysis in melon. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 2884-94	7.8	131
120	Effective quenching processes for physiologically valid metabolite profiling of suspension cultured Mammalian cells. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 174-83	7.8	125
119	Closed-loop, multiobjective optimization of analytical instrumentation: gas chromatography/time-of-flight mass spectrometry of the metabolomes of human serum and of yeast fermentations. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 290-303	7.8	125
118	Serum metabolomics reveals many novel metabolic markers of heart failure, including pseudouridine and 2-oxoglutarate. <i>Metabolomics</i> , <b>2007</b> , 3, 413-426	4.7	124
117	Comparative evaluation of software for deconvolution of metabolomics data based on GC-TOF-MS. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2008</b> , 27, 215-227	14.6	110

116	Improving metabolic flux predictions using absolute gene expression data. <i>BMC Systems Biology</i> , <b>2012</b> , 6, 73	3.5	107
115	Inter-laboratory reproducibility of fast gas chromatography-electron impact-time of flight mass spectrometry (GC-EI-TOF/MS) based plant metabolomics. <i>Metabolomics</i> , <b>2009</b> , 5, 479-496	4.7	107
114	Is serum or plasma more appropriate for intersubject comparisons in metabolomic studies? An assessment in patients with small-cell lung cancer. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 6689-97	7.8	106
113	A GC-TOF-MS study of the stability of serum and urine metabolomes during the UK Biobank sample collection and preparation protocols. <i>International Journal of Epidemiology</i> , <b>2008</b> , 37 Suppl 1, i23-30	7.8	106
112	Extensive metabolic cross-talk in melon fruit revealed by spatial and developmental combinatorial metabolomics. <i>New Phytologist</i> , <b>2011</b> , 190, 683-96	9.8	101
111	Metabolic footprinting as a tool for discriminating between brewing yeasts. <i>Yeast</i> , <b>2007</b> , 24, 667-79	3.4	96
110	Novel biomarkers for pre-eclampsia detected using metabolomics and machine learning. <i>Metabolomics</i> , <b>2005</b> , 1, 227-234	4.7	95
109	Untargeted metabolic profiling identifies altered serum metabolites of type 2 diabetes mellitus in a prospective, nested case control study. <i>Clinical Chemistry</i> , <b>2015</b> , 61, 487-97	5.5	94
108	A model of yeast glycolysis based on a consistent kinetic characterisation of all its enzymes. <i>FEBS Letters</i> , <b>2013</b> , 587, 2832-41	3.8	91
107	AKR1C3-Mediated Adipose Androgen Generation Drives Lipotoxicity in Women With Polycystic Ovary Syndrome. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2017</b> , 102, 3327-3339	5.6	87
106	Closed-loop, multiobjective optimization of two-dimensional gas chromatography/mass spectrometry for serum metabolomics. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 464-76	7.8	87
105	Metabolic profiling uncovers a phenotypic signature of small for gestational age in early pregnancy. <i>Journal of Proteome Research</i> , <b>2011</b> , 10, 3660-73	5.6	85
104	Preanalytical Processing and Biobanking Procedures of Biological Samples for Metabolomics Research: A White Paper, Community Perspective (for "Precision Medicine and Pharmacometabolomics Task Group"-The Metabolomics Society Initiative). <i>Clinical Chemistry</i> , <b>2018</b> , 64, 1158-1182	5.5	81
103	Further developments towards a genome-scale metabolic model of yeast. <i>BMC Systems Biology</i> , <b>2010</b> , 4, 145	3.5	81
102	Detection and identification of novel metabolomic biomarkers in preeclampsia. <i>Reproductive Sciences</i> , <b>2008</b> , 15, 591-7	3	74
101	Metabolomic approaches reveal that cell wall modifications play a major role in ethylene-mediated resistance against <i>Botrytis cinerea</i> . <i>Plant Journal</i> , <b>2011</b> , 67, 852-68	6.9	69
100	Changes in the metabolic footprint of placental explant-conditioned culture medium identifies metabolic disturbances related to hypoxia and pre-eclampsia. <i>Placenta</i> , <b>2009</b> , 30, 974-80	3.4	69
99	Systems biology: the elements and principles of life. <i>FEBS Letters</i> , <b>2009</b> , 583, 3882-90	3.8	66

98	Towards quality assurance and quality control in untargeted metabolomics studies. <i>Metabolomics</i> , <b>2019</b> , 15, 4	4.7	63
97	Absolute quantification of the glycolytic pathway in yeast: deployment of a complete QconCAT approach. <i>Molecular and Cellular Proteomics</i> , <b>2011</b> , 10, M111.007633	7.6	61
96	Metabolic Dysfunction Is Restricted to the Sciatic Nerve in Experimental Diabetic Neuropathy. <i>Diabetes</i> , <b>2016</b> , 65, 228-38	0.9	56
95	Changes in the metabolic footprint of placental explant-conditioned medium cultured in different oxygen tensions from placentas of small for gestational age and normal pregnancies. <i>Placenta</i> , <b>2010</b> , 31, 893-901	3.4	54
94	Computational tools and workflows in metabolomics: An international survey highlights the opportunity for harmonisation through Galaxy. <i>Metabolomics</i> , <b>2017</b> , 13, 12	4.7	52
93	A metabolomic approach identifies differences in maternal serum in third trimester pregnancies that end in poor perinatal outcome. <i>Reproductive Sciences</i> , <b>2012</b> , 19, 863-75	3	52
92	Integration of metabolomics in heart disease and diabetes research: current achievements and future outlook. <i>Bioanalysis</i> , <b>2011</b> , 3, 2205-22	2.1	50
91	A novel untargeted metabolomics correlation-based network analysis incorporating human metabolic reconstructions. <i>BMC Systems Biology</i> , <b>2013</b> , 7, 107	3.5	49
90	Metabolite profiles of interacting mycelial fronts differ for pairings of the wood decay basidiomycete fungus, <i>Stereum hirsutum</i> with its competitors <i>Coprinus micaceus</i> and <i>Coprinus disseminatus</i> . <i>Metabolomics</i> , <b>2008</b> , 4, 52-62	4.7	49
89	The metabolome of human placental tissue: investigation of first trimester tissue and changes related to preeclampsia in late pregnancy. <i>Metabolomics</i> , <b>2012</b> , 8, 579-597	4.7	46
88	Comparison of modified Matyash method to conventional solvent systems for polar metabolite and lipid extractions. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1037, 301-315	6.6	45
87	Analysis of the metabolic footprint and tissue metabolome of placental villous explants cultured at different oxygen tensions reveals novel redox biomarkers. <i>Placenta</i> , <b>2008</b> , 29, 691-8	3.4	45
86	International Ring Trial of a High Resolution Targeted Metabolomics and Lipidomics Platform for Serum and Plasma Analysis. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 14407-14416	7.8	42
85	Metabolomic analysis of rat serum in streptozotocin-induced diabetes and after treatment with oral triethylenetetramine (TETA). <i>Genome Medicine</i> , <b>2012</b> , 4, 35	14.4	42
84	Dual-5 $\beta$ Reductase Inhibition Promotes Hepatic Lipid Accumulation in Man. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2016</b> , 101, 103-13	5.6	41
83	From mass to metabolite in human untargeted metabolomics: Recent advances in annotation of metabolites applying liquid chromatography-mass spectrometry data. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2019</b> , 120, 115324	14.6	39
82	Quality assurance and quality control processes: summary of a metabolomics community questionnaire. <i>Metabolomics</i> , <b>2017</b> , 13, 1	4.7	38
81	Relatedness of medically important strains of <i>Saccharomyces cerevisiae</i> as revealed by phylogenetics and metabolomics. <i>Yeast</i> , <b>2008</b> , 25, 501-12	3.4	38

80	A new strategy for MS/MS data acquisition applying multiple data dependent experiments on Orbitrap mass spectrometers in non-targeted metabolomic applications. <i>Metabolomics</i> , <b>2015</b> , 11, 1068-1080	4.7	37
79	TARDIS-based microbial metabolomics: time and relative differences in systems. <i>Trends in Microbiology</i> , <b>2011</b> , 19, 315-22	12.4	37
78	Biomarkers of dietary energy restriction in women at increased risk of breast cancer. <i>Cancer Prevention Research</i> , <b>2009</b> , 2, 720-31	3.2	36
77	Collection and Preparation of Clinical Samples for Metabolomics. <i>Advances in Experimental Medicine and Biology</i> , <b>2017</b> , 965, 19-44	3.6	35
76	HAMMER: automated operation of mass frontier to construct in silico mass spectral fragmentation libraries. <i>Bioinformatics</i> , <b>2014</b> , 30, 581-3	7.2	33
75	MeMo: a hybrid SQL/XML approach to metabolomic data management for functional genomics. <i>BMC Bioinformatics</i> , <b>2006</b> , 7, 281	3.6	33
74	Changes in the cardiac metabolome caused by perhexiline treatment in a mouse model of hypertrophic cardiomyopathy. <i>Molecular BioSystems</i> , <b>2015</b> , 11, 564-73		32
73	Liquid chromatography-mass spectrometry calibration transfer and metabolomics data fusion. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 9848-57	7.8	31
72	Metabolic engineering against the arginine microenvironment enhances CAR-T cell proliferation and therapeutic activity. <i>Blood</i> , <b>2020</b> , 136, 1155-1160	2.2	29
71	msPurity: Automated Evaluation of Precursor Ion Purity for Mass Spectrometry-Based Fragmentation in Metabolomics. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 2432-2439	7.8	28
70	Evidence that multiple defects in lipid regulation occur before hyperglycemia during the prodrome of type-2 diabetes. <i>PLoS ONE</i> , <b>2014</b> , 9, e103217	3.7	28
69	ATR (ataxia telangiectasia mutated- and Rad3-related kinase) is activated by mild hypothermia in mammalian cells and subsequently activates p53. <i>Biochemical Journal</i> , <b>2011</b> , 435, 499-508	3.8	27
68	A laser desorption ionisation mass spectrometry approach for high throughput metabolomics. <i>Metabolomics</i> , <b>2005</b> , 1, 243-250	4.7	27
67	Metabolic profiling reveals potential metabolic markers associated with Hypoxia Inducible Factor-mediated signalling in hypoxic cancer cells. <i>Scientific Reports</i> , <b>2015</b> , 5, 15649	4.9	23
66	Assessment of adaptive focused acoustics versus manual vortex/freeze-thaw for intracellular metabolite extraction from <i>Streptomyces lividans</i> producing recombinant proteins using GC-MS and multi-block principal component analysis. <i>Analyst, The</i> , <b>2010</b> , 135, 934-42	5	23
65	Untargeted metabolomic analysis and pathway discovery in perinatal asphyxia and hypoxic-ischaemic encephalopathy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2019</b> , 39, 147-162	7.3	23
64	Systematic integration of experimental data and models in systems biology. <i>BMC Bioinformatics</i> , <b>2010</b> , 11, 582	3.6	20
63	Investigation of the 12-Month Stability of Dried Blood and Urine Spots Applying Untargeted UHPLC-MS Metabolomic Assays. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 14306-14313	7.8	19

62	Profiling of spatial metabolite distributions in wheat leaves under normal and nitrate limiting conditions. <i>Phytochemistry</i> , <b>2015</b> , 115, 99-111	4	18
61	The future of metabolomics in ELIXIR. <i>F1000Research</i> , <b>2017</b> , 6,	3.6	18
60	Genomics in cardiac metabolism. <i>Cardiovascular Research</i> , <b>2008</b> , 79, 218-27	9.9	17
59	Adipose tissue and metabolic and inflammatory responses to stroke are altered in obese mice. <i>DMM Disease Models and Mechanisms</i> , <b>2017</b> , 10, 1229-1243	4.1	16
58	Adapting in vitro dual perfusion of the human placenta to soluble oxygen tensions associated with normal and pre-eclamptic pregnancy. <i>Laboratory Investigation</i> , <b>2011</b> , 91, 181-9	5.9	16
57	Dissemination and analysis of the quality assurance (QA) and quality control (QC) practices of LC-MS based untargeted metabolomics practitioners. <i>Metabolomics</i> , <b>2020</b> , 16, 113	4.7	16
56	Dupuytren's disease metabolite analyses reveals alterations following initial short-term fibroblast culturing. <i>Molecular BioSystems</i> , <b>2012</b> , 8, 2274-88		15
55	Exploring the mode of action of dithranol therapy for psoriasis: a metabolomic analysis using HaCaT cells. <i>Molecular BioSystems</i> , <b>2015</b> , 11, 2198-209		14
54	Mass spectrometry in systems biology an introduction. <i>Methods in Enzymology</i> , <b>2011</b> , 500, 15-35	1.7	14
53	Paracrine stimulation of endothelial cell motility and angiogenesis by platelet-derived deoxyribose-1-phosphate. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2010</b> , 30, 2631-8	9.4	14
52	Proof-of-principle study to detect metabolic changes in peritoneal dialysis effluent in patients who develop encapsulating peritoneal sclerosis. <i>Nephrology Dialysis Transplantation</i> , <b>2012</b> , 27, 2502-10	4.3	14
51	Exercise and high-fat feeding remodel transcript-metabolite interactive networks in mouse skeletal muscle. <i>Scientific Reports</i> , <b>2017</b> , 7, 13485	4.9	13
50	Metabolic profiling of meat: assessment of pork hygiene and contamination with Salmonella typhimurium. <i>Analyst, The</i> , <b>2011</b> , 136, 508-14	5	13
49	Enhanced Fatty Acid Scavenging and Glycerophospholipid Metabolism Accompany Melanocyte Neoplasia Progression in Zebrafish. <i>Cancer Research</i> , <b>2019</b> , 79, 2136-2151	10.1	12
48	Characterisation of the metabolome of ocular tissues and post-mortem changes in the rat retina. <i>Experimental Eye Research</i> , <b>2016</b> , 149, 8-15	3.7	12
47	Bidirectional Cross-Talk between Biliary Epithelium and Th17 Cells Promotes Local Th17 Expansion and Bile Duct Proliferation in Biliary Liver Diseases. <i>Journal of Immunology</i> , <b>2019</b> , 203, 1151-1159	5.3	12
46	CASMI-The Small Molecule Identification Process from a Birmingham Perspective. <i>Metabolites</i> , <b>2013</b> , 3, 397-411	5.6	12
45	Sample preparation related to the intracellular metabolome of yeast methods for quenching, extraction, and metabolite quantitation. <i>Methods in Enzymology</i> , <b>2011</b> , 500, 277-97	1.7	12



44	Systematic Review: Clinical Metabolomics to Forecast Outcomes in Liver Transplantation Surgery. <i>OMICS A Journal of Integrative Biology</i> , <b>2019</b> , 23, 463-476	3.8	11
43	Yeast cells with impaired drug resistance accumulate glycerol and glucose. <i>Molecular BioSystems</i> , <b>2014</b> , 10, 93-102		11
42	Metabolomic analyses show that electron donor and acceptor ratios control anaerobic electron transfer pathways in <i>Shewanella oneidensis</i> . <i>Metabolomics</i> , <b>2013</b> , 9, 642-656	4.7	10
41	The future of metabolomics in ELIXIR. <i>F1000Research</i> , <b>2017</b> , 6, 1649	3.6	10
40	MALDI-MS of drugs: Profiling, imaging, and steps towards quantitative analysis. <i>Applied Spectroscopy Reviews</i> , <b>2017</b> , 52, 73-99	4.5	9
39	MUSCLE: automated multi-objective evolutionary optimization of targeted LC-MS/MS analysis. <i>Bioinformatics</i> , <b>2015</b> , 31, 975-7	7.2	9
38	Training needs in metabolomics. <i>Metabolomics</i> , <b>2015</b> , 11, 784-786	4.7	9
37	Cryptococcal 3-Hydroxy Fatty Acids Protect Cells Against Amoebal Phagocytosis. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 1351	5.7	8
36	Beta-aminoisobutyric acid is released by contracting human skeletal muscle and lowers insulin release from INS-1 832/3 cells by mediating mitochondrial energy metabolism. <i>Metabolism Open</i> , <b>2020</b> , 7, 100053	2.8	8
35	Diabetes - the Role of Metabolomics in the Discovery of New Mechanisms and Novel Biomarkers. <i>Current Cardiovascular Risk Reports</i> , <b>2013</b> , 7, 25-32	0.9	7
34	Autocrine amplification of integrin $\alpha\text{IIb}\beta\text{3}$ activation and platelet adhesive responses by deoxyribose-1-phosphate. <i>Thrombosis and Haemostasis</i> , <b>2013</b> , 109, 1108-19	7	7
33	CASMI 2014: Challenges, Solutions and Results. <i>Current Metabolomics</i> , <b>2017</b> , 5, 5-17	1	7
32	Carbohydrate and fatty acid perturbations in the amniotic fluid of the recipient twin of pregnancies complicated by twin-twin transfusion syndrome in relation to treatment and fetal cardiovascular risk. <i>Placenta</i> , <b>2016</b> , 44, 6-12	3.4	7
31	Improvement in the Prediction of Neonatal Hypoxic-Ischemic Encephalopathy with the Integration of Umbilical Cord Metabolites and Current Clinical Markers. <i>Journal of Pediatrics</i> , <b>2021</b> , 229, 175-181.e1	3.6	7
30	Multiple metabolic pathways are predictive of ricin intoxication in a rat model. <i>Metabolomics</i> , <b>2019</b> , 15, 102	4.7	6
29	A metabolomics investigation into the effects of HIV protease inhibitors on HPV16 E6 expressing cervical carcinoma cells. <i>Molecular BioSystems</i> , <b>2014</b> , 10, 398-411		6
28	Short- and long-term dynamic responses of the metabolic network and gene expression in yeast to a transient change in the nutrient environment. <i>Molecular BioSystems</i> , <b>2012</b> , 8, 1760-74		6
27	Assessment of human plasma and urine sample preparation for reproducible and high-throughput UHPLC-MS clinical metabolic phenotyping. <i>Analyst, The</i> , <b>2020</b> , 145, 6511-6523	5	6



26	Metabolomics reveals the physiological response of <i>Pseudomonas putida</i> KT2440 (UWC1) after pharmaceutical exposure. <i>Molecular BioSystems</i> , <b>2016</b> , 12, 1367-77		5
25	Untargeted metabolomics for uncovering biological markers of human skeletal muscle ageing. <i>Aging</i> , <b>2020</b> , 12, 12517-12533	5.6	5
24	Metabolomics Reveal Potential Natural Substrates of AcrB in <i>Escherichia coli</i> and <i>Salmonella enterica</i> Serovar Typhimurium. <i>MBio</i> , <b>2021</b> , 12,	7.8	5
23	Tick-Tock Consider the Clock: The Influence of Circadian and External Cycles on Time of Day Variation in the Human Metabolome-A Review. <i>Metabolites</i> , <b>2021</b> , 11,	5.6	5
22	Metabolites involved in glycolysis and amino acid metabolism are altered in short children born small for gestational age. <i>Pediatric Research</i> , <b>2016</b> , 80, 299-305	3.2	5
21	Multi-Omics Analysis of Diabetic Heart Disease in the Model Reveals Potential Targets for Treatment by a Longevity-Associated Gene. <i>Cells</i> , <b>2020</b> , 9,	7.9	4
20	Maternal intermittent fasting during pregnancy induces fetal growth restriction and down-regulated placental system A amino acid transport in the rat. <i>Clinical Science</i> , <b>2021</b> , 135, 1445-1466	6.5	4
19	Reference materials for MS-based untargeted metabolomics and lipidomics: a review by the metabolomics quality assurance and quality control consortium (mQACC).. <i>Metabolomics</i> , <b>2022</b> , 18, 24	4.7	4
18	Urinary biomonitoring of subjects with different smoking habits. Part II: an untargeted metabolomic approach and the comparison with the targeted measurement of mercapturic acids. <i>Toxicology Letters</i> , <b>2020</b> , 329, 56-66	4.4	3
17	Antiphospholipid Antibodies Alter Cell-Death-Regulating Lipid Metabolites in First and Third Trimester Human Placentae. <i>American Journal of Reproductive Immunology</i> , <b>2015</b> , 74, 181-99	3.8	3
16	Fit-for-purpose quenching and extraction protocols for metabolic profiling of yeast using chromatography-mass spectrometry platforms. <i>Methods in Molecular Biology</i> , <b>2011</b> , 759, 225-38	1.4	3
15	Considerations in Sample Preparation, Collection, and Extraction Approaches Applied in Microbial, Plant, and Mammalian Metabolic Profiling	79-118	3
14	Comparison of total vaporisation and dynamic headspace techniques combined with direct mass spectrometric detection for the on-line analysis of liquid process streams. <i>Analyst, The</i> , <b>1998</b> , 123, 343-348	5.8	3
13	Characterization of Monophasic Solvent-Based Tissue Extractions for the Detection of Polar Metabolites and Lipids Applying Ultrahigh-Performance Liquid Chromatography-Mass Spectrometry Clinical Metabolic Phenotyping Assays. <i>Journal of Proteome Research</i> , <b>2021</b> , 20, 831-840	5.6	3
12	Cytoglobin protects cancer cells from apoptosis by regulation of mitochondrial cardiolipin. <i>Scientific Reports</i> , <b>2021</b> , 11, 985	4.9	2
11	Chorioamnionitis alters lung surfactant lipidome in newborns with respiratory distress syndrome. <i>Pediatric Research</i> , <b>2021</b> , 90, 1039-1043	3.2	2
10	Metabolic characterisation of disturbances in the APOC3/triglyceride-rich lipoprotein pathway through sample-based recall by genotype. <i>Metabolomics</i> , <b>2020</b> , 16, 69	4.7	1
9	Metabolomics and Its Role in the Study of Mammalian Systems	2013, 345-377	1

8	Bilateral Remote Ischaemic Conditioning in Children (BRICC) trial: protocol for a two-centre, double-blind, randomised controlled trial in young children undergoing cardiac surgery. <i>BMJ Open</i> , <b>2020</b> , 10, e042176	3	1
7	DGAT1 is a lipid metabolism oncoprotein that enables cancer cells to accumulate fatty acid while avoiding lipotoxicity		1
6	The Role of Ultra Performance Liquid Chromatography-Mass Spectrometry in Metabolic Phenotyping <b>2019</b> , 97-136		1
5	Perturbations in cardiac metabolism in a human model of acute myocardial ischaemia. <i>Metabolomics</i> , <b>2021</b> , 17, 76	4.7	1
4	Gestational route to healthy birth (GaRBH): protocol for an Indian prospective cohort study. <i>BMJ Open</i> , <b>2019</b> , 9, e025395	3	0
3	An improved strategy for analysis of lipid molecules utilising a reversed phase C UHPLC column and scheduled MS/MS acquisition. <i>Talanta</i> , <b>2021</b> , 229, 122262	6.2	0
2	In Reply. <i>Clinical Chemistry</i> , <b>2015</b> , 61, 1544-6	5.5	
1	Intestinal permeability in participants with thermal injury: A case series from a prospective, longitudinal study (HESTIA). <i>Burns Open</i> , <b>2020</b> , 4, 94-102	0.8	