Jeremy K Nicholson

List of Publications by Year in Descending Order

778 papers	75,653 citations	133 h-index	247 g-index
828 ext. papers	84,265 ext. citations	7.5 avg, IF	7.85 L-index

#	Paper	IF	Citations
778	Integrated fecal microbiome-metabolome signatures reflect stress and serotonin metabolism in irritable bowel syndrome.. *Gut Microbes*, **2022**, 14, 2063016	8.8	1
777	Systemic Perturbations in Amine and Kynurenine Metabolism Associated with Acute SARS-CoV-2 Infection and Inflammatory Cytokine Responses. *Journal of Proteome Research*, **2021**, 20, 2796-2811	5.6	30
776	A Metabolite Array Technology for Precision Medicine. *Analytical Chemistry*, **2021**, 93, 5709-5717	7.8	31
775	Incomplete Systemic Recovery and Metabolic Phenoreversion in Post-Acute-Phase Nonhospitalized COVID-19 Patients: Implications for Assessment of Post-Acute COVID-19 Syndrome. *Journal of Proteome Research*, **2021**, 20, 3315-3329	5.6	20
774	Human and preclinical studies of the host-gut microbiome co-metabolite hippurate as a marker and mediator of metabolic health. *Gut*, **2021**, 70, 2105-2114	19.2	13
773	Iron status influences non-alcoholic fatty liver disease in obesity through the gut microbiome. *Microbiome*, **2021**, 9, 104	16.6	15
772	Longitudinal analysis reveals that delayed bystander CD8+ T cell activation and early immune pathology distinguish severe COVID-19 from mild disease. *Immunity*, **2021**, 54, 1257-1275.e8	32.3	52
771	Roux-en-Y gastric bypass-induced bacterial perturbation contributes to altered host-bacterial co-metabolic phenotype. *Microbiome*, **2021**, 9, 139	16.6	9
770	Diagnostic Potential of the Plasma Lipidome in Infectious Disease: Application to Acute SARS-CoV-2 Infection. *Metabolites*, **2021**, 11,	5.6	6
769	Tryptophan-metabolizing gut microbes regulate adult neurogenesis via the aryl hydrocarbon receptor. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	9
768	Molecular Phenomic Approaches to Deconvolving the Systemic Effects of SARS-CoV-2 Infection and Post-acute COVID-19 Syndrome.. *Phenomics*, **2021**, 1, 1-8		0
767	Strategy for improved characterization of human metabolic phenotypes using a COmbined Multi-block Principal components Analysis with Statistical Spectroscopy (COMPASS). *Bioinformatics*, **2021**, 36, 5229-5236	7.2	
766	A simultaneous exploratory and quantitative amino acid and biogenic amine metabolic profiling platform for rapid disease phenotyping via UPLC-QToF-MS. *Talanta*, **2021**, 223, 121872	6.2	4
765	Neuroendocrine Neoplasms: Identification of Novel Metabolic Circuits of Potential Diagnostic Utility. *Cancers*, **2021**, 13,	6.6	1
764	NMR Spectroscopic Windows on the Systemic Effects of SARS-CoV-2 Infection on Plasma Lipoproteins and Metabolites in Relation to Circulating Cytokines. *Journal of Proteome Research*, **2021**, 20, 1382-1396	5.6	25
763	Roux-en-Y gastric bypass surgery in Zucker rats induces bacterial and systemic metabolic changes independent of caloric restriction-induced weight loss. *Gut Microbes*, **2021**, 13, 1-20	8.8	9
762	A targeted ultra performance liquid chromatography - Tandem mass spectrometric assay for tyrosine and metabolites in urine and plasma: Application to the effects of antibiotics on mice. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2021**, 1164, 122511	3.2	1

761	Diffusion and Relaxation Edited Proton NMR Spectroscopy of Plasma Reveals a High-Fidelity Supramolecular Biomarker Signature of SARS-CoV-2 Infection. *Analytical Chemistry*, **2021**, 93, 3976-3986	7.8	11
760	Statistical analysis in metabolic phenotyping. *Nature Protocols*, **2021**, 16, 4299-4326	18.8	8
759	Integrative Modeling of Plasma Metabolic and Lipoprotein Biomarkers of SARS-CoV-2 Infection in Spanish and Australian COVID-19 Patient Cohorts. *Journal of Proteome Research*, **2021**, 20, 4139-4152	5.6	8
758	Dietary fibre to reduce colon cancer risk in Alaska Native people: the Alaska FIRST randomised clinical trial protocol. *BMJ Open*, **2021**, 11, e047162	3	0
757	Low Volume in Vitro Diagnostic Proton NMR Spectroscopy of Human Blood Plasma for Lipoprotein and Metabolite Analysis: Application to SARS-CoV-2 Biomarkers. *Journal of Proteome Research*, **2021**, 20, 1415-1423	5.6	8
756	Urinary metabolic phenotyping for Alzheimer's disease. *Scientific Reports*, **2020**, 10, 21745	4.9	10
755	Metabolic Phenotyping Using UPLC–MS and Rapid Microbore UPLC–MS: Determination of the Effect of Different Dietary Regimes on the Urinary Metabolome of the Rat. *Chromatographia*, **2020**, 83, 853-861	2.1	2
754	Nutriome-metabolome relationships provide insights into dietary intake and metabolism. *Nature Food*, **2020**, 1, 426-436	14.4	15
753	Dietary metabotype modelling predicts individual responses to dietary interventions. *Nature Food*, **2020**, 1, 355-364	14.4	14
752	A Two-Way Interaction between Methotrexate and the Gut Microbiota of Male Sprague-Dawley Rats. *Journal of Proteome Research*, **2020**, 19, 3326-3339	5.6	18
751	Metabolic Fingerprinting Links Oncogenic PIK3CA with Enhanced Arachidonic Acid-Derived Eicosanoids. *Cell*, **2020**, 181, 1596-1611.e27	56.2	39
750	Longitudinal metabolic and gut bacterial profiling of pregnant women with previous bariatric surgery. *Gut*, **2020**, 69, 1452-1459	19.2	12
749	A prospective cohort analysis of gut microbial co-metabolism in Alaska Native and rural African people at high and low risk of colorectal cancer. *American Journal of Clinical Nutrition*, **2020**, 111, 406-419	7	25
748	Identifying unknown metabolites using NMR-based metabolic profiling techniques. *Nature Protocols*, **2020**, 15, 2538-2567	18.8	38
747	Quantitative In-Vitro Diagnostic NMR Spectroscopy for Lipoprotein and Metabolite Measurements in Plasma and Serum: Recommendations for Analytical Artifact Minimization with Special Reference to COVID-19/SARS-CoV-2 Samples. *Journal of Proteome Research*, **2020**, 19, 4428-4441	5.6	15
746	Integrative Modeling of Quantitative Plasma Lipoprotein, Metabolic, and Amino Acid Data Reveals a Multiorgan Pathological Signature of SARS-CoV-2 Infection. *Journal of Proteome Research*, **2020**, 19, 4442-4454	5.6	67
745	Improved Spatial Resolution of Metabolites in Tissue Biopsies Using High-Resolution Magic-Angle-Spinning Slice Localization NMR Spectroscopy. *Analytical Chemistry*, **2020**, 92, 11516-11519	7.8	3
744	Development and validation of a high performance liquid chromatography-tandem mass spectrometry method for the absolute analysis of 17 D-amino acids in cooked meals. *Journal of Chromatography A*, **2020**, 1611, 460598	4.5	4

743	Association of Untargeted Urinary Metabolomics and Lung Cancer Risk Among Never-Smoking Women in China. *JAMA Network Open*, **2019**, 2, e1911970	10.4	15
742	A Unified Conceptual Framework for Metabolic Phenotyping in Diagnosis and Prognosis. *Trends in Pharmacological Sciences*, **2019**, 40, 763-773	13.2	15
741	A comparison of collision cross section values obtained via travelling wave ion mobility-mass spectrometry and ultra high performance liquid chromatography-ion mobility-mass spectrometry: Application to the characterisation of metabolites in rat urine. *Journal of Chromatography A*, **2019**, 1602, 386-396	4.5	18
740	Systematic Isolation and Structure Elucidation of Urinary Metabolites Optimized for the Analytical-Scale Molecular Profiling Laboratory. *Analytical Chemistry*, **2019**, 91, 8873-8882	7.8	6
739	Serum metabolic signatures of coronary and carotid atherosclerosis and subsequent cardiovascular disease. *European Heart Journal*, **2019**, 40, 2883-2896	9.5	58
738	Differences in Fecal Gut Microbiota, Short-Chain Fatty Acids and Bile Acids Link Colorectal Cancer Risk to Dietary Changes Associated with Urbanization Among Zimbabweans. *Nutrition and Cancer*, **2019**, 71, 1313-1324	2.8	11
737	Ultrahigh-Performance Liquid Chromatography Tandem Mass Spectrometry with Electrospray Ionization Quantification of Tryptophan Metabolites and Markers of Gut Health in Serum and Plasma-Application to Clinical and Epidemiology Cohorts. *Analytical Chemistry*, **2019**, 91, 5207-5216	7.8	36
736	Systems Genetics of Hepatic Metabolome Reveals Octopamine as a Target for Non-Alcoholic Fatty Liver Disease Treatment. *Scientific Reports*, **2019**, 9, 3656	4.9	9
735	Obesity and Cage Environment Modulate Metabolism in the Zucker Rat: A Multiple Biological Matrix Approach to Characterizing Metabolic Phenomena. *Journal of Proteome Research*, **2019**, 18, 2160-2174	5.6	3
734	Network Mapping of Molecular Biomarkers Influencing Radiation Response in Rectal Cancer. *Clinical Colorectal Cancer*, **2019**, 18, e210-e222	3.8	3
733	SPUTNIK: an R package for filtering of spatially related peaks in mass spectrometry imaging data. *Bioinformatics*, **2019**, 35, 178-180	7.2	9
732	The gut microbiota influences skeletal muscle mass and function in mice. *Science Translational Medicine*, **2019**, 11,	17.5	124
731	The nPYc-Toolbox, a Python module for the pre-processing, quality-control and analysis of metabolic profiling datasets. *Bioinformatics*, **2019**, 35, 5359-5360	7.2	11
730	Untargeted Mass Spectrometry Lipidomics identifies correlation between serum sphingomyelins and plasma cholesterol. *Lipids in Health and Disease*, **2019**, 18, 38	4.4	12
729	Application of novel solid phase extraction-NMR protocols for metabolic profiling of human urine. *Faraday Discussions*, **2019**, 218, 395-416	3.6	
728	Neurogenesis and prolongevity signaling in young germ-free mice transplanted with the gut microbiota of old mice. *Science Translational Medicine*, **2019**, 11,	17.5	65
727	The metabolic fate and effects of 2-Bromophenol in male Sprague-Dawley rats. *Xenobiotica*, **2019**, 49, 1352-1359	2	1
726	A validated UPLC-MS/MS assay for the quantification of amino acids and biogenic amines in rat urine. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2019**, 1106-1107, 50-57	3.2	6

725	Reduced plasma levels of small HDL particles transporting fibrinolytic proteins in pulmonary arterial hypertension. *Thorax*, **2019**, 74, 380-389	7.3	16
724	pJRES Binning Algorithm (JBA): a new method to facilitate the recovery of metabolic information from pJRES 1H NMR spectra. *Bioinformatics*, **2019**, 35, 1916-1922	7.2	6
723	Conception, Implementation and Operation of Large-Scale Metabolic Phenotyping Centres: Phenome Centres **2019**, 385-405		
722	Metabolic Phenotyping: History, Status, and Prospects **2019**, 571-583		
721	Optimized Phenotypic Biomarker Discovery and Confounder Elimination via Covariate-Adjusted Projection to Latent Structures from Metabolic Spectroscopy Data. *Journal of Proteome Research*, **2018**, 17, 1586-1595	5.6	20
720	Paracetamol metabolism, hepatotoxicity, biomarkers and therapeutic interventions: a perspective. *Toxicology Research*, **2018**, 7, 347-357	2.6	41
719	Characterization of metabolic responses to healthy diets and association with blood pressure: application to the Optimal Macronutrient Intake Trial for Heart Health (OmniHeart), a randomized controlled study. *American Journal of Clinical Nutrition*, **2018**, 107, 323-334	7	31
718	MWASTools: an R/bioconductor package for metabolome-wide association studies. *Bioinformatics*, **2018**, 34, 890-892	7.2	13
717	Metabolic retroconversion of trimethylamine N-oxide and the gut microbiota. *Microbiome*, **2018**, 6, 73	16.6	82
716	BASIS: High-performance bioinformatics platform for processing of large-scale mass spectrometry imaging data in chemically augmented histology. *Scientific Reports*, **2018**, 8, 4053	4.9	19
715	The Frobenius problem for the shuffle operation. *Semigroup Forum*, **2018**, 96, 160-177	0.5	1
714	The effects of kisspeptin on β-cell function, serum metabolites and appetite in humans. *Diabetes, Obesity and Metabolism*, **2018**, 20, 2800-2810	6.7	39
713	Microbiome-host systems interactions: protective effects of propionate upon the blood-brain barrier. *Microbiome*, **2018**, 6, 55	16.6	170
712	Vaginal dysbiosis increases risk of preterm fetal membrane rupture, neonatal sepsis and is exacerbated by erythromycin. *BMC Medicine*, **2018**, 16, 9	11.4	122
711	XCMS-MRM and METLIN-MRM: a cloud library and public resource for targeted analysis of small molecules. *Nature Methods*, **2018**, 15, 681-684	21.6	69
710	The pathophysiology of human obstructive cholestasis is mimicked in cholestatic Gold Syrian hamsters. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2018**, 1864, 942-951	6.9	6
709	Ultra-Performance Liquid Chromatography-High-Resolution Mass Spectrometry and Direct Infusion-High-Resolution Mass Spectrometry for Combined Exploratory and Targeted Metabolic Profiling of Human Urine. *Journal of Proteome Research*, **2018**, 17, 3492-3502	5.6	9
708	Quantitative Lipoprotein Subclass and Low Molecular Weight Metabolite Analysis in Human Serum and Plasma by H NMR Spectroscopy in a Multilaboratory Trial. *Analytical Chemistry*, **2018**, 90, 11962-11971	7.8	83

707	Molecular phenomics and metagenomics of hepatic steatosis in non-diabetic obese women. *Nature Medicine*, **2018**, 24, 1070-1080	50.5	276
706	The interaction between vaginal microbiota, cervical length, and vaginal progesterone treatment for preterm birth risk. *Microbiome*, **2017**, 5, 6	16.6	180
705	Objective assessment of dietary patterns by use of metabolic phenotyping: a randomised, controlled, crossover trial. *Lancet Diabetes and Endocrinology,the*, **2017**, 5, 184-195	18.1	143
704	Deep learning and 3D-DESI imaging reveal the hidden metabolic heterogeneity of cancer. *Chemical Science*, **2017**, 8, 3500-3511	9.4	83
703	Integrated Analytical and Statistical Two-Dimensional Spectroscopy Strategy for Metabolite Identification: Application to Dietary Biomarkers. *Analytical Chemistry*, **2017**, 89, 3300-3309	7.8	34
702	High-Speed Quantitative UPLC-MS Analysis of Multiple Amines in Human Plasma and Serum via Precolumn Derivatization with 6-Aminoquinolyl-N-hydroxysuccinimidyl Carbamate: Application to Acetaminophen-Induced Liver Failure. *Analytical Chemistry*, **2017**, 89, 2478-2487	7.8	51
701	Optimization and Application of Direct Infusion Nanoelectrospray HRMS Method for Large-Scale Urinary Metabolic Phenotyping in Molecular Epidemiology. *Journal of Proteome Research*, **2017**, 16, 1646-1658	5.6	31
700	Gut microbiota modulation of chemotherapy efficacy and toxicity. *Nature Reviews Gastroenterology and Hepatology*, **2017**, 14, 356-365	24.2	382
699	Ion mobility spectrometry combined with ultra performance liquid chromatography/mass spectrometry for metabolic phenotyping of urine: Effects of column length, gradient duration and ion mobility spectrometry on metabolite detection. *Analytica Chimica Acta*, **2017**, 982, 1-8	6.6	46
698	Application of H NMR spectroscopy to the metabolic phenotyping of rodent brain extracts: A metabonomic study of gut microbial influence on host brain metabolism. *Journal of Pharmaceutical and Biomedical Analysis*, **2017**, 143, 141-146	3.5	17
697	Longitudinal analysis of serum oxylipin profile as a novel descriptor of the inflammatory response to surgery. *Journal of Translational Medicine*, **2017**, 15, 83	8.5	10
696	Sex-dependent effects on gut microbiota regulate hepatic carcinogenic outcomes. *Scientific Reports*, **2017**, 7, 45232	4.9	47
695	Metabolic phenotyping for discovery of urinary biomarkers of diet, xenobiotics and blood pressure in the INTERMAP Study: an overview. *Hypertension Research*, **2017**, 40, 336-345	4.7	12
694	Metabolic Phenotype of Obesity in a Saudi Population. *Journal of Proteome Research*, **2017**, 16, 635-644	5.6	13
693	Statistical Tools for Molecular Covariance Spectroscopy **2017**, 243-249		
692	Urinary Metabolic Phenotyping of Women with Lower Urinary Tract Symptoms. *Journal of Proteome Research*, **2017**, 16, 4208-4216	5.6	8
691	J-Resolved H NMR 1D-Projections for Large-Scale Metabolic Phenotyping Studies: Application to Blood Plasma Analysis. *Analytical Chemistry*, **2017**, 89, 11405-11412	7.8	13
690	A prospective analysis of mucosal microbiome-metabonome interactions in colorectal cancer using a combined MAS 1HNMR and metataxonomic strategy. *Scientific Reports*, **2017**, 7, 8979	4.9	25

689	Early intervention with Bifidobacterium lactis NCC2818 modulates the host-microbe interface independent of the sustained changes induced by the neonatal environment. *Scientific Reports*, **2017**, 7, 5310	4.9	7
688	Translational utility of a hierarchical classification strategy in biomolecular data analytics. *Scientific Reports*, **2017**, 7, 14981	4.9	5
687	Microbial-Host Co-metabolites Are Prodromal Markers Predicting Phenotypic Heterogeneity in Behavior, Obesity, and Impaired Glucose Tolerance. *Cell Reports*, **2017**, 20, 136-148	10.6	57
686	Gut microbiome interactions with drug metabolism, efficacy, and toxicity. *Translational Research*, **2017**, 179, 204-222	11	281
685	A novel methodology for in vivo endoscopic phenotyping of colorectal cancer based on real-time analysis of the mucosal lipidome: a prospective observational study of the iKnife. *Surgical Endoscopy and Other Interventional Techniques*, **2017**, 31, 1361-1370	5.2	73
684	MetaboSignal: a network-based approach for topological analysis of metabotype regulation via metabolic and signaling pathways. *Bioinformatics*, **2017**, 33, 773-775	7.2	9
683	Neonatal environment exerts a sustained influence on the development of the intestinal microbiota and metabolic phenotype. *ISME Journal*, **2016**, 10, 145-57	11.9	27
682	Relationship between vaginal microbial dysbiosis, inflammation, and pregnancy outcomes in cervical cerclage. *Science Translational Medicine*, **2016**, 8, 350ra102	17.5	92
681	Multivariate metabotyping of plasma predicts survival in patients with decompensated cirrhosis. *Journal of Hepatology*, **2016**, 64, 1058-1067	13.4	55
680	Characterisation of the vaginal microbiome in cervical intraepithelial neoplasia. *Lancet, The*, **2016**, 387, S75	40	2
679	Abstract 3977: iKnife: Rapid evaporative ionization mass spectrometry (REIMS) enables real-time chemical analysis of the mucosal lipidome for diagnostic and prognostic use in colorectal cancer **2016**,		6
678	Spatially resolved profiling of colorectal cancer lipid biochemistry via DESI imaging mass spectrometry to reveal morphology-dependent alterations in fatty acid metabolism.. *Journal of Clinical Oncology*, **2016**, 34, e15104-e15104	2.2	2
677	Modeling People and Populations **2016**, 333-367		2
676	Unmet Medical Needs **2016**, 1-15		1
675	Future Visions for Clinical Metabolic Phenotyping **2016**, 369-388		
674	Phenotyping the Patient Journey **2016**, 49-74		1
673	Pharmacometabonomics and Predictive Metabonomics **2016**, 137-165		1
672	Modeling Longitudinal Metabonomics and Microbiota Interactions in C57BL/6 Mice Fed a High Fat Diet. *Analytical Chemistry*, **2016**, 88, 7617-26	7.8	8

671	Bidirectional communication between the Aryl hydrocarbon Receptor (AhR) and the microbiome tunes host metabolism. *Npj Biofilms and Microbiomes*, **2016**, 2, 16014	8.2	68
670	A multiplexed targeted assay for high-throughput quantitative analysis of serum methylamines by ultra performance liquid chromatography coupled to high resolution mass spectrometry. *Archives of Biochemistry and Biophysics*, **2016**, 597, 12-20	4.1	11
669	Metabolic Phenotypes of Carotid Atherosclerotic Plaques Relate to Stroke Risk: An Exploratory Study. *European Journal of Vascular and Endovascular Surgery*, **2016**, 52, 5-10	2.3	24
668	Initial non-repetitive complexity of infinite words. *Discrete Applied Mathematics*, **2016**, 208, 114-122	1	1
667	An Analytical Pipeline for Quantitative Characterization of Dietary Intake: Application To Assess Grape Intake. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 2423-31	5.7	38
666	Analysis of polar urinary metabolites for metabolic phenotyping using supercritical fluid chromatography and mass spectrometry. *Journal of Chromatography A*, **2016**, 1449, 141-55	4.5	52
665	Systemic Characterization of an Obese Phenotype in the Zucker Rat Model Defining Metabolic Axes of Energy Metabolism and Host-Microbial Interactions. *Journal of Proteome Research*, **2016**, 15, 1897-906	5.6	14
664	Impact of the gut microbiota on inflammation, obesity, and metabolic disease. *Genome Medicine*, **2016**, 8, 42	14.4	669
663	Optimized Sample Handling Strategy for Metabolic Profiling of Human Feces. *Analytical Chemistry*, **2016**, 88, 4661-8	7.8	97
662	Development of a Rapid Microbore Metabolic Profiling Ultraperformance Liquid Chromatography-Mass Spectrometry Approach for High-Throughput Phenotyping Studies. *Analytical Chemistry*, **2016**, 88, 5742-51	7.8	26
661	Power Analysis and Sample Size Determination in Metabolic Phenotyping. *Analytical Chemistry*, **2016**, 88, 5179-88	7.8	70
660	Automatic Spectroscopic Data Categorization by Clustering Analysis (ASCLAN): A Data-Driven Approach for Distinguishing Discriminatory Metabolites for Phenotypic Subclasses. *Analytical Chemistry*, **2016**, 88, 5670-9	7.8	5
659	Topological analysis of metabolic networks integrating co-segregating transcriptomes and metabolomes in type 2 diabetic rat congenic series. *Genome Medicine*, **2016**, 8, 101	14.4	14
658	Development and Application of Ultra-Performance Liquid Chromatography-TOF MS for Precision Large Scale Urinary Metabolic Phenotyping. *Analytical Chemistry*, **2016**, 88, 9004-13	7.8	71
657	Development of a Pipeline for Exploratory Metabolic Profiling of Infant Urine. *Journal of Proteome Research*, **2016**, 15, 3432-40	5.6	7
656	Quantifying Diet-Induced Metabolic Changes of the Human Gut Microbiome. *Cell Metabolism*, **2015**, 22, 320-31	24.6	275
655	Systems toxicology: modelling biomarkers of glutathione homeostasis and paracetamol metabolism. *Drug Discovery Today: Technologies*, **2015**, 15, 9-14	7.1	6
654	An integrated ceramic, micro-fluidic device for the LC/MS/MS analysis of pharmaceuticals in plasma. *Analyst, The*, **2015**, 140, 5546-56	5	10

653	Dietary Modulation of Gut Microbiota Contributes to Alleviation of Both Genetic and Simple Obesity in Children. *EBioMedicine*, **2015**, 2, 968-84	8.8	198
652	The promise of metabolic phenotyping in gastroenterology and hepatology. *Nature Reviews Gastroenterology and Hepatology*, **2015**, 12, 458-71	24.2	48
651	Fat, fibre and cancer risk in African Americans and rural Africans. *Nature Communications*, **2015**, 6, 6342	17.4	534
650	Urinary metabolic signatures of human adiposity. *Science Translational Medicine*, **2015**, 7, 285ra62	17.5	141
649	High-Throughput Microbore UPLC-MS Metabolic Phenotyping of Urine for Large-Scale Epidemiology Studies. *Journal of Proteome Research*, **2015**, 14, 2714-21	5.6	26
648	mQTL.NMR: an integrated suite for genetic mapping of quantitative variations of (1)H NMR-based metabolic profiles. *Analytical Chemistry*, **2015**, 87, 4377-84	7.8	24
647	2-Furoylglycine as a Candidate Biomarker of Coffee Consumption. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 8615-21	5.7	45
646	Development and Validation of a High-Throughput Ultrahigh-Performance Liquid Chromatography-Mass Spectrometry Approach for Screening of Oxylipins and Their Precursors. *Analytical Chemistry*, **2015**, 87, 11721-31	7.8	38
645	Bile acid profiling and quantification in biofluids using ultra-performance liquid chromatography tandem mass spectrometry. *Analytical Chemistry*, **2015**, 87, 9662-70	7.8	120
644	Metabolic phenotype-microRNA data fusion analysis of the systemic consequences of Roux-en-Y gastric bypass surgery. *International Journal of Obesity*, **2015**, 39, 1126-34	5.5	25
643	Development of nanoelectrospray high resolution isotope dilution mass spectrometry for targeted quantitative analysis of urinary metabolites: application to population profiling and clinical studies. *Analytical Methods*, **2015**, 7, 5122-5133	3.2	8
642	Multivariate Data Analysis Methods for NMR-based Metabolic Phenotyping in Pharmaceutical and Clinical Research **2015**, 323-334		2
641	Cervical intraepithelial neoplasia disease progression is associated with increased vaginal microbiome diversity. *Scientific Reports*, **2015**, 5, 16865	4.9	191
640	In Vivo Endoscopic Tissue Identification by Rapid Evaporative Ionization Mass Spectrometry (REIMS). *Angewandte Chemie*, **2015**, 127, 11211-11214	3.6	7
639	In vivo endoscopic tissue identification by rapid evaporative ionization mass spectrometry (REIMS). *Angewandte Chemie - International Edition*, **2015**, 54, 11059-62	16.4	84
638	The Modulation of Drug Efficacy and Toxicity by the Gut Microbiome. *Molecular and Integrative Toxicology*, **2015**, 323-341	0.5	5
637	Spatially resolved metabolic phenotyping of breast cancer by desorption electrospray ionization mass spectrometry. *Cancer Research*, **2015**, 75, 1828-37	10.1	105
636	Untargeted UPLC-MS profiling pipeline to expand tissue metabolome coverage: application to cardiovascular disease. *Analytical Chemistry*, **2015**, 87, 4184-93	7.8	128

635	Metabolic phenotyping of atherosclerotic plaques reveals latent associations between free cholesterol and ceramide metabolism in atherogenesis. *Journal of Proteome Research*, **2015**, 14, 1389-99	5.6	53
634	Metabolic profiling of CHO-APP695 cells revealed mitochondrial dysfunction prior to amyloid-β pathology and potential therapeutic effects of both PPARδ and PPARα Agonisms for Alzheimer's disease. *Journal of Alzheimer's Disease*, **2015**, 44, 215-31	4.3	23
633	Mistargeting of peroxisomal EHHADH and inherited renal Fanconi's syndrome. *New England Journal of Medicine*, **2014**, 370, 129-38	59.2	73
632	Relation of raw and cooked vegetable consumption to blood pressure: the INTERMAP Study. *Journal of Human Hypertension*, **2014**, 28, 353-9	2.6	21
631	Metabolic phenotyping and systems biology approaches to understanding metabolic syndrome and fatty liver disease. *Gastroenterology*, **2014**, 146, 46-62	13.3	124
630	Discovery and validation of urinary metabotypes for the diagnosis of hepatocellular carcinoma in West Africans. *Hepatology*, **2014**, 60, 1291-301	11.2	49
629	1H NMR global metabolic phenotyping of acute pancreatitis in the emergency unit. *Journal of Proteome Research*, **2014**, 13, 5362-75	5.6	19
628	Objective set of criteria for optimization of sample preparation procedures for ultra-high throughput untargeted blood plasma lipid profiling by ultra performance liquid chromatography-mass spectrometry. *Analytical Chemistry*, **2014**, 86, 5766-74	7.8	153
627	The metabolite profiles of the obese population are gender-dependent. *Journal of Proteome Research*, **2014**, 13, 4062-73	5.6	42
626	Bariatric surgery modulates circulating and cardiac metabolites. *Journal of Proteome Research*, **2014**, 13, 570-80	5.6	40
625	Symbiotic bacterial metabolites regulate gastrointestinal barrier function via the xenobiotic sensor PXR and Toll-like receptor 4. *Immunity*, **2014**, 41, 296-310	32.3	470
624	Precision high-throughput proton NMR spectroscopy of human urine, serum, and plasma for large-scale metabolic phenotyping. *Analytical Chemistry*, **2014**, 86, 9887-94	7.8	291
623	Statistical HOmogeneous Cluster SpectroscopY (SHOCSY): an optimized statistical approach for clustering of 1H NMR spectral data to reduce interference and enhance robust biomarkers selection. *Analytical Chemistry*, **2014**, 86, 5308-15	7.8	11
622	MetaboNetworks, an interactive Matlab-based toolbox for creating, customizing and exploring sub-networks from KEGG. *Bioinformatics*, **2014**, 30, 893-5	7.2	58
621	Rapid diagnosis and staging of colorectal cancer via high-resolution magic angle spinning nuclear magnetic resonance (HR-MAS NMR) spectroscopy of intact tissue biopsies. *Annals of Surgery*, **2014**, 259, 1138-49	7.8	51
620	Nutritional modulation of the metabonome: applications of metabolic phenotyping in translational nutritional research. *Current Opinion in Gastroenterology*, **2014**, 30, 196-207	3	18
619	Chemo-informatic strategy for imaging mass spectrometry-based hyperspectral profiling of lipid signatures in colorectal cancer. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 1216-21	11.5	99
618	Chemical mapping of the colorectal cancer microenvironment via MALDI imaging mass spectrometry (MALDI-MSI) reveals novel cancer-associated field effects. *Molecular Oncology*, **2014**, 8, 39-49	7.9	78

617	Age and microenvironment outweigh genetic influence on the Zucker rat microbiome. *PLoS ONE*, **2014**, 9, e100916	3.7	32
616	Microbial-mammalian cometabolites dominate the age-associated urinary metabolic phenotype in Taiwanese and American populations. *Journal of Proteome Research*, **2013**, 12, 3166-80	5.6	37
615	Intraoperative tissue identification using rapid evaporative ionization mass spectrometry. *Science Translational Medicine*, **2013**, 5, 194ra93	17.5	384
614	Global metabolic profiling of animal and human tissues via UPLC-MS. *Nature Protocols*, **2013**, 8, 17-32	18.8	405
613	Hyperspectral visualization of mass spectrometry imaging data. *Analytical Chemistry*, **2013**, 85, 1415-23	7.8	73
612	Melamine-induced renal toxicity is mediated by the gut microbiota. *Science Translational Medicine*, **2013**, 5, 172ra22	17.5	102
611	Hippurate: the natural history of a mammalian-microbial cometabolite. *Journal of Proteome Research*, **2013**, 12, 1527-46	5.6	196
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