Rui Wang-Sattler

List of Publications by Year
in descending order

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Version: 2024-02-01

80	8,076	81743 39	62479 80
papers	citations	h-index	g-index

81	81	81	14416
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identification of Serum Metabolites Associated With Risk of Type 2 Diabetes Using a Targeted Metabolomic Approach. Diabetes, 2013, 62, 639-648.	0.3	820
2	Epigenetic Signatures of Cigarette Smoking. Circulation: Cardiovascular Genetics, 2016, 9, 436-447.	5.1	678
3	A genome-wide perspective of genetic variation in human metabolism. Nature Genetics, 2010, 42, 137-141.	9.4	618
4	Novel biomarkers for preâ€diabetes identified by metabolomics. Molecular Systems Biology, 2012, 8, 615.	3.2	605
5	Meta-Analysis of 28,141 Individuals Identifies Common Variants within Five New Loci That Influence Uric Acid Concentrations. PLoS Genetics, 2009, 5, e1000504.	1.5	572
6	Differences between Human Plasma and Serum Metabolite Profiles. PLoS ONE, 2011, 6, e21230.	1.1	350
7	Discovery of Sexual Dimorphisms in Metabolic and Genetic Biomarkers. PLoS Genetics, 2011, 7, e1002215.	1.5	328
8	Identification of proliferative and mature Î²-cells in the islets of Langerhans. Nature, 2016, 535, 430-434.	13.7	279
9	Human serum metabolic profiles are age dependent. Aging Cell, 2012, 11, 960-967.	3.0	271
10	Quantitative Trait Loci for Refractoriness of Anopheles gambiae to Plasmodium cynomolgi B. Science, 1997, 276, 425-428.	6.0	197
11	Serum branched-chain amino acid to histidine ratio: a novel metabolomic biomarker of knee osteoarthritis. Annals of the Rheumatic Diseases, 2010, 69, 1227-1231.	0.5	162
12	Childhood Obesity Is Associated with Changes in the Serum Metabolite Profile. Obesity Facts, 2012, 5, 660-670.	1.6	141
13	Schizophrenia shows a unique metabolomics signature in plasma. Translational Psychiatry, 2012, 2, e149-e149.	2.4	138
14	Reliability of Serum Metabolite Concentrations over a 4-Month Period Using a Targeted Metabolomic Approach. PLoS ONE, 2011, 6, e21103.	1.1	131
15	Mouse phenotyping. Methods, 2011, 53, 120-135.	1.9	128
16	In Vivo Identification of Novel Regulators and Conserved Pathways of Phagocytosis in A. gambiae. Immunity, 2005, 23, 65-73.	6.6	126
17	Genetic Loci Affecting Resistance to Human Malaria Parasites in a West African Mosquito Vector Population. Science, 2002, 298, 213-216.	6.0	121
18	Metabolites associate with kidney function decline and incident chronic kidney disease in the general population. Nephrology Dialysis Transplantation, 2013, 28, 2131-2138.	0.4	116

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19	Serum Metabolite Concentrations and Decreased GFR in the General Population. American Journal of Kidney Diseases, 2012, 60, 197-206.	2.1	108
20	Metabolic Profiling Reveals Distinct Variations Linked to Nicotine Consumption in Humans â€" First Results from the KORA Study. PLoS ONE, 2008, 3, e3863.	1.1	107
21	Dissecting the Genetic Basis of Resistance to Malaria Parasites in Anopheles gambiae. Science, 2009, 326, 147-150.	6.0	106
22	Effects of smoking and smoking cessation on human serum metabolite profile: results from the KORA cohort study. BMC Medicine, 2013, 11, 60.	2.3	103
23	Effects of Metformin on Metabolite Profiles and LDL Cholesterol in Patients With Type 2 Diabetes. Diabetes Care, 2015, 38, 1858-1867.	4.3	97
24	Body Fat Free Mass Is Associated with the Serum Metabolite Profile in a Population-Based Study. PLoS ONE, 2012, 7, e40009.	1.1	95
25	Metabolomic Identification of a Novel Pathway of Blood Pressure Regulation Involving Hexadecanedioate. Hypertension, 2015, 66, 422-429.	1.3	90
26	Pre-Analytical Sample Quality: Metabolite Ratios as an Intrinsic Marker for Prolonged Room Temperature Exposure of Serum Samples. PLoS ONE, 2015, 10, e0121495.	1.1	88
27	Alcohol-induced metabolomic differences in humans. Translational Psychiatry, 2013, 3, e276-e276.	2.4	79
28	Changes in the serum metabolite profile in obese children with weight loss. European Journal of Nutrition, 2015, 54, 173-181.	1.8	74
29	Non-targeted metabolomics combined with genetic analyses identifies bile acid synthesis and phospholipid metabolism as being associated with incident type 2 diabetes. Diabetologia, 2016, 59, 2114-2124.	2.9	74
30	Association of Atopic Dermatitis with Cardiovascular Risk Factors and Diseases. Journal of Investigative Dermatology, 2017, 137, 1074-1081.	0.3	73
31	When genetic distance matters: Measuring genetic differentiation at microsatellite loci in whole-genome scans of recent and incipient mosquito species. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 10769-10774.	3.3	72
32	Integrative genetic and metabolite profiling analysis suggests altered phosphatidylcholine metabolism in asthma. Allergy: European Journal of Allergy and Clinical Immunology, 2013, 68, 629-636.	2.7	70
33	Random Survival Forest in practice: a method for modelling complex metabolomics data in time to event analysis. International Journal of Epidemiology, 2016, 45, 1406-1420.	0.9	67
34	Preservation of Metabolic Flexibility in Skeletal Muscle by a Combined Use of n-3 PUFA and Rosiglitazone in Dietary Obese Mice. PLoS ONE, 2012, 7, e43764.	1.1	55
35	Stability of targeted metabolite profiles of urine samples under different storage conditions. Metabolomics, 2017, 13, 4.	1.4	50
36	Metformin Effect on Nontargeted Metabolite Profiles in Patients With Type 2 Diabetes and in Multiple Murine Tissues. Diabetes, 2016, 65, 3776-3785.	0.3	49

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37	Unmasking Differential Effects of Rosiglitazone and Pioglitazone in the Combination Treatment with n-3 Fatty Acids in Mice Fed a High-Fat Diet. PLoS ONE, 2011, 6, e27126.	1.1	43
38	Plasma and Serum Metabolite Association Networks: Comparability within and between Studies Using NMR and MS Profiling. Journal of Proteome Research, 2017, 16, 2547-2559.	1.8	43
39	Microsatellite Markers and Genotyping Procedures for Anopheles gambiae. Parasitology Today, 1999, 15, 33-37.	3.1	41
40	Mosaic Genome Architecture of the Anopheles gambiae Species Complex. PLoS ONE, 2007, 2, e1249.	1.1	41
41	Ageing Investigation Using Two-Time-Point Metabolomics Data from KORA and CARLA Studies. Metabolites, 2019, 9, 44.	1.3	39
42	Improvement of myocardial infarction risk prediction via inflammation-associated metabolite biomarkers. Heart, 2017, 103, 1278-1285.	1.2	38
43	Increased amino acids levels and the risk of developing of hypertriglyceridemia in a 7-year follow-up. Journal of Endocrinological Investigation, 2014, 37, 369-374.	1.8	36
44	Machine Learning Approaches Reveal Metabolic Signatures of Incident Chronic Kidney Disease in Individuals With Prediabetes and Type 2 Diabetes. Diabetes, 2020, 69, 2756-2765.	0.3	33
45	Metabolite ratios as potential biomarkers for type 2 diabetes: a DIRECT study. Diabetologia, 2018, 61, 117-129.	2.9	32
46	Mapping the Genetic Architecture of Gene Regulation in Whole Blood. PLoS ONE, 2014, 9, e93844.	1.1	31
47	12-months metabolic changes among gender dysphoric individuals under cross-sex hormone treatment: a targeted metabolomics study. Scientific Reports, 2016, 6, 37005.	1.6	31
48	Short-term NO₂exposure is associated with long-chain fatty acids in prospective cohorts from Augsburg, Germany: results from an analysis of 138 metabolites and three exposures. International Journal of Epidemiology, 2016, 45, 1528-1538.	0.9	27
49	Circulating Metabolites Differentiate Acute Ischemic Stroke from Stroke Mimics. Annals of Neurology, 2020, 88, 736-746.	2.8	27
50	Comparison of metabolic profiles of acutely ill and short-term weight recovered patients with anorexia nervosa reveals alterations of 33 out of 163 metabolites. Journal of Psychiatric Research, 2012, 46, 1600-1609.	1.5	25
51	Nonadditive Effects of Genes in Human Metabolomics. Genetics, 2015, 200, 707-718.	1.2	24
52	Identification of putative biomarkers for type 2 diabetes using metabolomics in the Korea Association REsource (KARE) cohort. Metabolomics, 2016, 12, 1.	1.4	23
53	Metabolomics reveals determinants of weight loss during lifestyle intervention in obese children. Metabolomics, 2013, 9, 1157-1167.	1.4	22
54	Differences in twenty-four-hour profiles of blue-light exposure between day and night shifts in female medical staff. Science of the Total Environment, 2019, 653, 1025-1033.	3.9	22

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55	Changes in metabolite profiles caused by genetically determined obesity in mice. Metabolomics, 2014, 10, 461-472.	1.4	20
56	Effect of Insulin Resistance on Monounsaturated Fatty Acid Levels: A Multi-cohort Non-targeted Metabolomics and Mendelian Randomization Study. PLoS Genetics, 2016, 12, e1006379.	1.5	20
57	dbDEPC 2.0: updated database of differentially expressed proteins in human cancers. Nucleic Acids Research, 2012, 40, D964-D971.	6.5	19
58	Interrogating causal pathways linking genetic variants, small molecule metabolites, and circulating lipids. Genome Medicine, 2014, 6, 25.	3.6	17
59	TIGER: technical variation elimination for metabolomics data using ensemble learning architecture. Briefings in Bioinformatics, 2022, 23, .	3.2	15
60	Automated workflow-based exploitation of pathway databases provides new insights into genetic associations of metabolite profiles. BMC Genomics, 2013, 14, 865.	1.2	14
61	A network-based conditional genetic association analysis of the human metabolome. GigaScience, 2018, 7, .	3.3	13
62	Ldlr and ApoE mice better mimic the human metabolite signature of increased carotid intima media thickness compared to other animal models of cardiovascular disease. Atherosclerosis, 2018, 276, 140-147.	0.4	13
63	Night Shift Work Affects Urine Metabolite Profiles of Nurses with Early Chronotype. Metabolites, 2018, 8, 45.	1.3	13
64	Metabolomics reveals a link between homocysteine and lipid metabolism and leukocyte telomere length: the ENGAGE consortium. Scientific Reports, 2019, 9, 11623.	1.6	13
65	Dilution correction for dynamically influenced urinary analyte data. Analytica Chimica Acta, 2018, 1032, 18-31.	2.6	12
66	Human gene expression sensitivity according to large scale meta-analysis. BMC Bioinformatics, 2009, 10, S56.	1.2	10
67	Integrated personalized diabetes management goes Europe: A multi-disciplinary approach to innovating type 2 diabetes care in Europe. Primary Care Diabetes, 2021, 15, 360-364.	0.9	10
68	Validation of Candidate Phospholipid Biomarkers of Chronic Kidney Disease in Hyperglycemic Individuals and Their Organ-Specific Exploration in Leptin Receptor-Deficient db/db Mouse. Metabolites, 2021, 11, 89.	1.3	10
69	Silencing of Genes and Alleles by RNAi in Anopheles gambiae. Methods in Molecular Biology, 2012, 923, 161-176.	0.4	8
70	Response to Comment on Xu et al. Effects of Metformin on Metabolite Profiles and LDL Cholesterol in Patients With Type 2 Diabetes. Diabetes Care 2015;38:1858â€“1867. Diabetes Care, 2015, 38, e216-e217.	4.3	8
71	Diagnosing Fatty Liver Disease: A Comparative Evaluation of Metabolic Markers, Phenotypes, Genotypes and Established Biomarkers. PLoS ONE, 2013, 8, e76813.	1.1	8
72	PLA1A2 platelet polymorphism predicts mortality in prediabetic subjects of the population based KORA S4-Cohort. Cardiovascular Diabetology, 2014, 13, 90.	2.7	7

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73	Cell type specificity of signaling: view from membrane receptors distribution and their downstream transduction networks. Protein and Cell, 2012, 3, 701-713.	4.8	6
74	Metabolomic Signature of Coronary Artery Disease in Type 2 Diabetes Mellitus. International Journal of Endocrinology, 2017, 2017, 1-9.	0.6	6
75	Nonperturbative corrections to perturbative quark potentials. Physical Review D, 1994, 49, 3474-3479.	1.6	5
76	Specific Metabolic Markers Are Associated with Future Waist-Gaining Phenotype in Women. PLoS ONE, 2016, 11, e0157733.	1.1	5
77	First mitochondrial genome-wide association study with metabolomics. Human Molecular Genetics, 2022, 31, 3367-3376.	1.4	4
78	Night work, chronotype and cortisol at awakening in female hospital employees. Scientific Reports, 2022, 12, 6525.	1.6	2
79	Response to Comment on Adam et al. Metformin Effect on Nontargeted Metabolite Profiles in Patients With Type 2 Diabetes and in Multiple Murine Tissues. Diabetes 2016;65:3776â€“3785. Diabetes, 2017, 66, e3-e4.	0.3	1
80	pulver: an R package for parallel ultra-rapid p-value computation for linear regression interaction terms. BMC Bioinformatics, 2017, 18, 429.	1.2	1