

Karsten Suhre

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2221377/karsten-suhre-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

265
papers

16,295
citations

66
h-index

121
g-index

311
ext. papers

20,014
ext. citations

8
avg, IF

6.39
L-index

#	Paper	IF	Citations
265	Human metabolic individuality in biomedical and pharmaceutical research. <i>Nature</i> , 2011 , 477, 54-60	50.4	728
264	An atlas of genetic influences on human blood metabolites. <i>Nature Genetics</i> , 2014 , 46, 543-550	36.3	695
263	ElNemo: a normal mode web server for protein movement analysis and the generation of templates for molecular replacement. <i>Nucleic Acids Research</i> , 2004 , 32, W610-4	20.1	544
262	Genetics meets metabolomics: a genome-wide association study of metabolite profiles in human serum. <i>PLoS Genetics</i> , 2008 , 4, e1000282	6	538
261	Genomic atlas of the human plasma proteome. <i>Nature</i> , 2018 , 558, 73-79	50.4	529
260	A genome-wide perspective of genetic variation in human metabolism. <i>Nature Genetics</i> , 2010 , 42, 137-41	36.3	515
259	Novel biomarkers for pre-diabetes identified by metabolomics. <i>Molecular Systems Biology</i> , 2012 , 8, 615	12.2	468
258	Metabolic footprint of diabetes: a multiplatform metabolomics study in an epidemiological setting. <i>PLoS ONE</i> , 2010 , 5, e13953	3.7	425
257	Metabolomics enables precision medicine: "A White Paper, Community Perspective". <i>Metabolomics</i> , 2016 , 12, 149	4.7	327
256	Differences between human plasma and serum metabolite profiles. <i>PLoS ONE</i> , 2011 , 6, e21230	3.7	271
255	3DCoffee: combining protein sequences and structures within multiple sequence alignments. <i>Journal of Molecular Biology</i> , 2004 , 340, 385-95	6.5	271
254	Biomarkers for type 2 diabetes and impaired fasting glucose using a nontargeted metabolomics approach. <i>Diabetes</i> , 2013 , 62, 4270-6	0.9	268
253	Discovery of sexual dimorphisms in metabolic and genetic biomarkers. <i>PLoS Genetics</i> , 2011 , 7, e10022156		256
252	Connecting genetic risk to disease end points through the human blood plasma proteome. <i>Nature Communications</i> , 2017 , 8, 14357	17.4	249
251	The dynamic range of the human metabolome revealed by challenges. <i>FASEB Journal</i> , 2012 , 26, 2607-19	0.9	226
250	Procedure for tissue sample preparation and metabolite extraction for high-throughput targeted metabolomics. <i>Metabolomics</i> , 2012 , 8, 133-142	4.7	217
249	Gaussian graphical modeling reconstructs pathway reactions from high-throughput metabolomics data. <i>BMC Systems Biology</i> , 2011 , 5, 21	3.5	207

248	Metabolic network failures in Alzheimer's disease: A biochemical road map. <i>Alzheimer's and Dementia</i> , 2017 , 13, 965-984	1.2	201
247	Human serum metabolic profiles are age dependent. <i>Aging Cell</i> , 2012 , 11, 960-7	9.9	193
246	A genome-wide association study of metabolic traits in human urine. <i>Nature Genetics</i> , 2011 , 43, 565-9	36.3	188
245	FusionDB: a database for in-depth analysis of prokaryotic gene fusion events. <i>Nucleic Acids Research</i> , 2004 , 32, D273-6	20.1	187
244	MassTRIX: mass translator into pathways. <i>Nucleic Acids Research</i> , 2008 , 36, W481-4	20.1	171
243	Metabolomic markers reveal novel pathways of ageing and early development in human populations. <i>International Journal of Epidemiology</i> , 2013 , 42, 1111-9	7.8	166
242	SNiPA: an interactive, genetic variant-centered annotation browser. <i>Bioinformatics</i> , 2015 , 31, 1334-6	7.2	160
241	Epigenetics meets metabolomics: an epigenome-wide association study with blood serum metabolic traits. <i>Human Molecular Genetics</i> , 2014 , 23, 534-45	5.6	147
240	Reductive genome evolution from the mother of Rickettsia. <i>PLoS Genetics</i> , 2007 , 3, e14	6	142
239	Mimivirus and the emerging concept of "giant" virus. <i>Virus Research</i> , 2006 , 117, 133-44	6.4	141
238	Genetic variation in metabolic phenotypes: study designs and applications. <i>Nature Reviews Genetics</i> , 2012 , 13, 759-69	30.1	140
237	3DCoffee@igs: a web server for combining sequences and structures into a multiple sequence alignment. <i>Nucleic Acids Research</i> , 2004 , 32, W37-40	20.1	139
236	Tropheryma whipplei Twist: a human pathogenic Actinobacteria with a reduced genome. <i>Genome Research</i> , 2003 , 13, 1800-9	9.7	132
235	Genomic correlates of hyperthermostability, an update. <i>Journal of Biological Chemistry</i> , 2003 , 278, 17198-202	5.4	131
234	Gender-specific pathway differences in the human serum metabolome. <i>Metabolomics</i> , 2015 , 11, 1815-1827	4.7	130
233	Genome-wide association study identifies novel genetic variants contributing to variation in blood metabolite levels. <i>Nature Communications</i> , 2015 , 6, 7208	17.4	126
232	Mining the unknown: a systems approach to metabolite identification combining genetic and metabolic information. <i>PLoS Genetics</i> , 2012 , 8, e1003005	6	126
231	A Metabolome-Wide Association Study of Kidney Function and Disease in the General Population. <i>Journal of the American Society of Nephrology: JASN</i> , 2016 , 27, 1175-88	12.7	119

230	Overview of the Meso-NH model version 5.4 and its applications. <i>Geoscientific Model Development</i> , 2018 , 11, 1929-1969	6.3	114
229	Genome-wide mapping of plasma protein QTLs identifies putatively causal genes and pathways for cardiovascular disease. <i>Nature Communications</i> , 2018 , 9, 3268	17.4	111
228	A genome-wide metabolic QTL analysis in Europeans implicates two loci shaped by recent positive selection. <i>PLoS Genetics</i> , 2011 , 7, e1002270	6	109
227	Childhood obesity is associated with changes in the serum metabolite profile. <i>Obesity Facts</i> , 2012 , 5, 660-70	5.1	106
226	Associations of circulating plasma microRNAs with age, body mass index and sex in a population-based study. <i>BMC Medical Genomics</i> , 2015 , 8, 61	3.7	105
225	Bioinformatics analysis of targeted metabolomics--uncovering old and new tales of diabetic mice under medication. <i>Endocrinology</i> , 2008 , 149, 3478-89	4.8	104
224	Mouse phenotyping. <i>Methods</i> , 2011 , 53, 120-35	4.6	103
223	Set1 is required for meiotic S-phase onset, double-strand break formation and middle gene expression. <i>EMBO Journal</i> , 2004 , 23, 1957-67	13	103
222	NORMA: a tool for flexible fitting of high-resolution protein structures into low-resolution electron-microscopy-derived density maps. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006 , 62, 1098-100		99
221	Leveraging cross-species transcription factor binding site patterns: from diabetes risk loci to disease mechanisms. <i>Cell</i> , 2014 , 156, 343-58	56.2	96
220	Targeted metabolomics profiles are strongly correlated with nutritional patterns in women. <i>Metabolomics</i> , 2013 , 9, 506-514	4.7	93
219	Metabolic profiling reveals distinct variations linked to nicotine consumption in humans--first results from the KORA study. <i>PLoS ONE</i> , 2008 , 3, e3863	3.7	92
218	On the potential of normal-mode analysis for solving difficult molecular-replacement problems. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004 , 60, 796-9		85
217	Serum metabolite concentrations and decreased GFR in the general population. <i>American Journal of Kidney Diseases</i> , 2012 , 60, 197-206	7.4	84
216	Metabolites associate with kidney function decline and incident chronic kidney disease in the general population. <i>Nephrology Dialysis Transplantation</i> , 2013 , 28, 2131-8	4.3	84
215	CaspR: a web server for automated molecular replacement using homology modelling. <i>Nucleic Acids Research</i> , 2004 , 32, W606-9	20.1	81
214	Genetics of human metabolism: an update. <i>Human Molecular Genetics</i> , 2015 , 24, R93-R101	5.6	79
213	Comprehensive transcriptomic and proteomic characterization of human mesenchymal stem cells reveals source specific cellular markers. <i>Scientific Reports</i> , 2016 , 6, 21507	4.9	79

212	Gene and Genome Duplication in <i>Acanthamoeba polyphaga</i> Mimivirus. <i>Journal of Virology</i> , 2005 , 79, 1550-1559	11.4	77
211	Effects of smoking and smoking cessation on human serum metabolite profile: results from the KORA cohort study. <i>BMC Medicine</i> , 2013 , 11, 60	11.4	77
210	Metabolomics platforms for genome wide association studies--linking the genome to the metabolome. <i>Current Opinion in Biotechnology</i> , 2013 , 24, 39-47	11.4	77
209	Body fat free mass is associated with the serum metabolite profile in a population-based study. <i>PLoS ONE</i> , 2012 , 7, e40009	3.7	77
208	Effects of metformin on metabolite profiles and LDL cholesterol in patients with type 2 diabetes. <i>Diabetes Care</i> , 2015 , 38, 1858-67	14.6	76
207	Epigenetic associations of type 2 diabetes and BMI in an Arab population. <i>Clinical Epigenetics</i> , 2016 , 8, 13	7.7	76
206	Metabolic profiling in diabetes. <i>Journal of Endocrinology</i> , 2014 , 221, R75-85	4.7	73
205	High TCR diversity ensures optimal function and homeostasis of Foxp3+ regulatory T cells. <i>European Journal of Immunology</i> , 2011 , 41, 3101-13	6.1	71
204	MassTRIX reloaded: combined analysis and visualization of transcriptome and metabolome data. <i>PLoS ONE</i> , 2012 , 7, e39860	3.7	71
203	On the hypothesis-free testing of metabolite ratios in genome-wide and metabolome-wide association studies. <i>BMC Bioinformatics</i> , 2012 , 13, 120	3.6	70
202	A first genetic map of date palm (<i>Phoenix dactylifera</i>) reveals long-range genome structure conservation in the palms. <i>BMC Genomics</i> , 2014 , 15, 285	4.5	68
201	ORILAM, a three-moment lognormal aerosol scheme for mesoscale atmospheric model: Online coupling into the Meso-NH-C model and validation on the Escompte campaign. <i>Journal of Geophysical Research</i> , 2005 , 110,		68
200	Genome-Wide Association Study with Targeted and Non-targeted NMR Metabolomics Identifies 15 Novel Loci of Urinary Human Metabolic Individuality. <i>PLoS Genetics</i> , 2015 , 11, e1005487	6	66
199	Association of DNA methylation with age, gender, and smoking in an Arab population. <i>Clinical Epigenetics</i> , 2015 , 7, 6	7.7	65
198	MIPS: curated databases and comprehensive secondary data resources in 2010. <i>Nucleic Acids Research</i> , 2011 , 39, D220-4	20.1	65
197	The Human Blood Metabolome-Transcriptome Interface. <i>PLoS Genetics</i> , 2015 , 11, e1005274	6	65
196	Questionnaire-based self-reported nutrition habits associate with serum metabolism as revealed by quantitative targeted metabolomics. <i>European Journal of Epidemiology</i> , 2011 , 26, 145-56	12.1	64
195	Genome-wide association study of caffeine metabolites provides new insights to caffeine metabolism and dietary caffeine-consumption behavior. <i>Human Molecular Genetics</i> , 2016 , 25, 5472-5482	5.6	64

194	A systems view of type 2 diabetes-associated metabolic perturbations in saliva, blood and urine at different timescales of glycaemic control. <i>Diabetologia</i> , 2015 , 58, 1855-67	10.3	63
193	Metabolomic identification of a novel pathway of blood pressure regulation involving hexadecanedioate. <i>Hypertension</i> , 2015 , 66, 422-9	8.5	63
192	Mimivirus gene promoters exhibit an unprecedented conservation among all eukaryotes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 14689-93	11.5	63
191	Gene and genome duplication in <i>Acanthamoeba polyphaga</i> Mimivirus. <i>Journal of Virology</i> , 2005 , 79, 14095-101	6.1	63
190	Characterization of missing values in untargeted MS-based metabolomics data and evaluation of missing data handling strategies. <i>Metabolomics</i> , 2018 , 14, 128	4.7	63
189	Genetics meets proteomics: perspectives for large population-based studies. <i>Nature Reviews Genetics</i> , 2021 , 22, 19-37	30.1	62
188	Alcohol-induced metabolomic differences in humans. <i>Translational Psychiatry</i> , 2013 , 3, e276	8.6	61
187	Indigenous Arabs are descendants of the earliest split from ancient Eurasian populations. <i>Genome Research</i> , 2016 , 26, 151-62	9.7	60
186	1,5-Anhydroglucitol in saliva is a noninvasive marker of short-term glycemic control. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014 , 99, E479-83	5.6	58
185	Integrative genetic and metabolite profiling analysis suggests altered phosphatidylcholine metabolism in asthma. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2013 , 68, 629-36	9.3	57
184	Development of a reduced chemical scheme for use in mesoscale meteorological models. <i>Atmospheric Environment</i> , 2000 , 34, 2633-2644	5.3	57
183	Genus-wide sequencing supports a two-locus model for sex-determination in Phoenix. <i>Nature Communications</i> , 2018 , 9, 3969	17.4	57
182	Internal and external mixing in atmospheric aerosols by coagulation: Impact on the optical and hygroscopic properties of the sulphate-soot system. <i>Atmospheric Environment</i> , 1997 , 31, 1393-1402	5.3	54
181	Metabolomic profiles indicate distinct physiological pathways affected by two loci with major divergent effect on <i>Bos taurus</i> growth and lipid deposition. <i>Physiological Genomics</i> , 2010 , 42A, 79-88	3.6	53
180	metaP-server: a web-based metabolomics data analysis tool. <i>Journal of Biomedicine and Biotechnology</i> , 2011 , 2011,		52
179	Structural genomics of highly conserved microbial genes of unknown function in search of new antibacterial targets. <i>Journal of Structural and Functional Genomics</i> , 2003 , 4, 141-57		52
178	Multi-omic signature of body weight change: results from a population-based cohort study. <i>BMC Medicine</i> , 2015 , 13, 48	11.4	51
177	Metabolomics approach reveals effects of antihypertensives and lipid-lowering drugs on the human metabolism. <i>European Journal of Epidemiology</i> , 2014 , 29, 325-36	12.1	51

176	Long term conservation of human metabolic phenotypes and link to heritability. <i>Metabolomics</i> , 2014 , 10, 1005-1017	4.7	50
175	GFscore: a general nonlinear consensus scoring function for high-throughput docking. <i>Journal of Chemical Information and Modeling</i> , 2006 , 46, 1704-12	6.1	49
174	Phydbac "Gene Function Predictor": a gene annotation tool based on genomic context analysis. <i>BMC Bioinformatics</i> , 2005 , 6, 247	3.6	49
173	Variation in the human lipidome associated with coffee consumption as revealed by quantitative targeted metabolomics. <i>Molecular Nutrition and Food Research</i> , 2009 , 53, 1357-65	5.9	48
172	Genetic Influences on Metabolite Levels: A Comparison across Metabolomic Platforms. <i>PLoS ONE</i> , 2016 , 11, e0153672	3.7	48
171	Physico-chemical modeling of the First Aerosol Characterization Experiment (ACE 1) Lagrangian B: 1. A moving column approach. <i>Journal of Geophysical Research</i> , 1998 , 103, 16433-16455		47
170	Annotation of bacterial genomes using improved phylogenomic profiles. <i>Bioinformatics</i> , 2003 , 19 Suppl 1, i105-7	7.2	45
169	ProGeM: a framework for the prioritization of candidate causal genes at molecular quantitative trait loci. <i>Nucleic Acids Research</i> , 2019 , 47, e3	20.1	45
168	A pilot study comparing the metabolic profiles of elite-level athletes from different sporting disciplines. <i>Sports Medicine - Open</i> , 2018 , 4, 2	6.1	44
167	Ozone-rich transients in the upper equatorial Atlantic troposphere. <i>Nature</i> , 1997 , 388, 661-663	50.4	44
166	A systems biology approach using metabolomic data reveals genes and pathways interacting to modulate divergent growth in cattle. <i>BMC Genomics</i> , 2013 , 14, 798	4.5	42
165	Urine Metabolite Profiles Predictive of Human Kidney Allograft Status. <i>Journal of the American Society of Nephrology: JASN</i> , 2016 , 27, 626-36	12.7	41
164	Estimation of prokaryote genomic DNA G+C content by sequencing universally conserved genes. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2006 , 56, 1025-1029	2.2	41
163	Mesenchymal cell interaction with ovarian cancer cells triggers pro-metastatic properties. <i>PLoS ONE</i> , 2012 , 7, e38340	3.7	41
162	Metabolic switch during adipogenesis: From branched chain amino acid catabolism to lipid synthesis. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 589, 93-107	4.1	40
161	Changing metabolic signatures of amino acids and lipids during the prediabetic period in a pig model with impaired incretin function and reduced cell mass. <i>Diabetes</i> , 2012 , 61, 2166-75	0.9	40
160	The Saliva Metabolome in Association to Oral Health Status. <i>Journal of Dental Research</i> , 2019 , 98, 642-651	5.1	39
159	A Genome-Wide Survey of Date Palm Cultivars Supports Two Major Subpopulations in Phoenix dactylifera. <i>G3: Genes, Genomes, Genetics</i> , 2015 , 5, 1429-38	3.2	39

158	Accelerated lipid catabolism and autophagy are cancer survival mechanisms under inhibited glutaminolysis. <i>Cancer Letters</i> , 2018 , 430, 133-147	9.9	38
157	Cohort profile: Greifswald approach to individualized medicine (GANI_MED). <i>Journal of Translational Medicine</i> , 2014 , 12, 144	8.5	37
156	Metabolite profiling reveals new insights into the regulation of serum urate in humans. <i>Metabolomics</i> , 2014 , 10, 141-151	4.7	36
155	Biochemical insights from population studies with genetics and metabolomics. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 589, 168-76	4.1	34
154	Epigenetics meets proteomics in an epigenome-wide association study with circulating blood plasma protein traits. <i>Nature Communications</i> , 2020 , 11, 15	17.4	34
153	Network-based approach for analyzing intra- and interfluid metabolite associations in human blood, urine, and saliva. <i>Journal of Proteome Research</i> , 2015 , 14, 1183-94	5.6	33
152	Whole-exome sequencing identifies common and rare variant metabolic QTLs in a Middle Eastern population. <i>Nature Communications</i> , 2018 , 9, 333	17.4	33
151	Genetic studies of urinary metabolites illuminate mechanisms of detoxification and excretion in humans. <i>Nature Genetics</i> , 2020 , 52, 167-176	36.3	32
150	Metabolomics of dates (<i>Phoenix dactylifera</i>) reveals a highly dynamic ripening process accounting for major variation in fruit composition. <i>BMC Plant Biology</i> , 2015 , 15, 291	5.3	32
149	Conformational flexibility of Mycobacterium tuberculosis thioredoxin reductase: crystal structure and normal-mode analysis. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005 , 61, 1603-11		31
148	Effect of induced hypoglycemia on inflammation and oxidative stress in type 2 diabetes and control subjects. <i>Scientific Reports</i> , 2020 , 10, 4750	4.9	30
147	Metformin Effect on Nontargeted Metabolite Profiles in Patients With Type 2 Diabetes and in Multiple Murine Tissues. <i>Diabetes</i> , 2016 , 65, 3776-3785	0.9	30
146	Increased amino acids levels and the risk of developing of hypertriglyceridemia in a 7-year follow-up. <i>Journal of Endocrinological Investigation</i> , 2014 , 37, 369-74	5.2	30
145	Metformin supports the antidiabetic effect of a sodium glucose cotransporter 2 inhibitor by suppressing endogenous glucose production in diabetic mice. <i>Diabetes</i> , 2015 , 64, 284-90	0.9	29
144	Defining the genetic control of human blood plasma N-glycome using genome-wide association study. <i>Human Molecular Genetics</i> , 2019 , 28, 2062-2077	5.6	28
143	Complementarity of SOMAscan to LC-MS/MS and RNA-seq for quantitative profiling of human embryonic and mesenchymal stem cells. <i>Journal of Proteomics</i> , 2017 , 150, 86-97	3.9	28
142	Role of medium- and short-chain L-3-hydroxyacyl-CoA dehydrogenase in the regulation of body weight and thermogenesis. <i>Endocrinology</i> , 2011 , 152, 4641-51	4.8	28
141	Improvement of myocardial infarction risk prediction via inflammation-associated metabolite biomarkers. <i>Heart</i> , 2017 , 103, 1278-1285	5.1	27

140	Circulating Protein Signatures and Causal Candidates for Type 2 Diabetes. <i>Diabetes</i> , 2020 , 69, 1843-1853.	3.9	27
139	Mapping the genetic architecture of gene regulation in whole blood. <i>PLoS ONE</i> , 2014 , 9, e93844	3.7	27
138	Phydbac2: improved inference of gene function using interactive phylogenomic profiling and chromosomal location analysis. <i>Nucleic Acids Research</i> , 2004 , 32, W336-9	20.1	26
137	Systems biology analysis merging phenotype, metabolomic and genomic data identifies Non-SMC Condensin I Complex, Subunit G (NCAPG) and cellular maintenance processes as major contributors to genetic variability in bovine feed efficiency. <i>PLoS ONE</i> , 2015 , 10, e0124574	3.7	26
136	Metabolic signatures differentiate ovarian from colon cancer cell lines. <i>Journal of Translational Medicine</i> , 2015 , 13, 223	8.5	25
135	Mesenchymal cell interaction with ovarian cancer cells induces a background dependent pro-metastatic transcriptomic profile. <i>Journal of Translational Medicine</i> , 2014 , 12, 59	8.5	25
134	Genetic associations with lipoprotein subfractions provide information on their biological nature. <i>Human Molecular Genetics</i> , 2012 , 21, 1433-43	5.6	25
133	Identification of a potential biomarker for FABP4 inhibition: the power of lipidomics in preclinical drug testing. <i>Journal of Biomolecular Screening</i> , 2011 , 16, 467-75		25
132	Evidence for Stress-like Alterations in the HPA-Axis in Women Taking Oral Contraceptives. <i>Scientific Reports</i> , 2017 , 7, 14111	4.9	24
131	Ethnic and gender differences in advanced glycation end products measured by skin auto-fluorescence. <i>Dermato-Endocrinology</i> , 2013 , 5, 325-30		24
130	DI-HCR-FT-MS-based high-throughput deep metabotyping: a case study of the <i>Caenorhabditis elegans</i> - <i>Pseudomonas aeruginosa</i> infection model. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 1059-73	4.4	23
129	Metabolomic profiles in individuals with negative affectivity and social inhibition: a population-based study of Type D personality. <i>Psychoneuroendocrinology</i> , 2013 , 38, 1299-309	5	23
128	Novel genetic associations with serum level metabolites identified by phenotype set enrichment analyses. <i>Human Molecular Genetics</i> , 2014 , 23, 5847-57	5.6	23
127	Determination of strongly overlapping signaling activity from microarray data. <i>BMC Bioinformatics</i> , 2006 , 7, 99	3.6	23
126	Inference of gene function based on gene fusion events: the rosetta-stone method. <i>Methods in Molecular Biology</i> , 2007 , 396, 31-41	1.4	22
125	Alterations in Lipid and Inositol Metabolisms in Two Dopaminergic Disorders. <i>PLoS ONE</i> , 2016 , 11, e0147379	3.7	22
124	Deep molecular phenotypes link complex disorders and physiological insult to CpG methylation. <i>Human Molecular Genetics</i> , 2018 , 27, 1106-1121	5.6	21
123	Metabolite ratios as potential biomarkers for type 2 diabetes: a DIRECT study. <i>Diabetologia</i> , 2018 , 61, 117-129	10.3	21

122	From Discovery to Translation: Characterization of C-Mannosyltryptophan and Pseudouridine as Markers of Kidney Function. <i>Scientific Reports</i> , 2017 , 7, 17400	4.9	21
121	Metabolomics profiling reveals novel markers for leukocyte telomere length. <i>Aging</i> , 2016 , 8, 77-94	5.6	21
120	Nesting of colon and ovarian cancer cells in the endothelial niche is associated with alterations in glycan and lipid metabolism. <i>Scientific Reports</i> , 2017 , 7, 39999	4.9	20
119	Identification and MS-assisted interpretation of genetically influenced NMR signals in human plasma. <i>Genome Medicine</i> , 2013 , 5, 13	14.4	20
118	The association between various smoking behaviors, cotinine biomarkers and skin autofluorescence, a marker for advanced glycation end product accumulation. <i>PLoS ONE</i> , 2017 , 12, e0179330	2.7	20
117	Comparison of metabolic profiles of acutely ill and short-term weight recovered patients with anorexia nervosa reveals alterations of 33 out of 163 metabolites. <i>Journal of Psychiatric Research</i> , 2012 , 46, 1600-9	5.2	19
116	Characteristics of mutants designed to incorporate a new ion pair into the structure of a cold adapted subtilisin-like serine proteinase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009 , 1794, 512-8	4	19
115	Associations between thyroid hormones and serum metabolite profiles in an euthyroid population. <i>Metabolomics</i> , 2014 , 10, 152-164	4.7	18
114	Bayesian independent component analysis recovers pathway signatures from blood metabolomics data. <i>Journal of Proteome Research</i> , 2012 , 11, 4120-31	5.6	18
113	Mimivirus TyrRS: preliminary structural and functional characterization of the first amino-acyl tRNA synthetase found in a virus. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005 , 61, 212-5		18
112	Atlantic subtropical potential vorticity barrier as seen by Measurements of Ozone by Airbus In-Service Aircraft (MOZAIC) flights. <i>Journal of Geophysical Research</i> , 1998 , 103, 25681-25693		18
111	Type 2 diabetes is associated with postprandial amino acid measures. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 589, 138-44	4.1	17
110	Novel subpopulations in date palm (<i>Phoenix dactylifera</i>) identified by population-wide organellar genome sequencing. <i>BMC Genomics</i> , 2019 , 20, 498	4.5	17
109	Metabolomics of Dynamic Changes in Insulin Resistance Before and After Exercise in PCOS. <i>Frontiers in Endocrinology</i> , 2019 , 10, 116	5.7	17
108	Measurement of 1,5-anhydroglucitol in blood and saliva: from non-targeted metabolomics to biochemical assay. <i>Journal of Translational Medicine</i> , 2016 , 14, 140	8.5	17
107	Metabolomics of Ramadan fasting: an opportunity for the controlled study of physiological responses to food intake. <i>Journal of Translational Medicine</i> , 2014 , 12, 161	8.5	17
106	PSEA: Phenotype Set Enrichment Analysis--a new method for analysis of multiple phenotypes. <i>Genetic Epidemiology</i> , 2012 , 36, 244-52	2.6	17
105	Discovery of protein-coding palindromic repeats in <i>Wolbachia</i> . <i>Trends in Microbiology</i> , 2005 , 13, 253-5	12.4	17

104	Metabolomics profiling of xenobiotics in elite athletes: relevance to supplement consumption. <i>Journal of the International Society of Sports Nutrition</i> , 2018 , 15, 48	4.5	17
103	Genome-Wide Association Study Reveals a Novel Association Between MYBPC3 Gene Polymorphism, Endurance Athlete Status, Aerobic Capacity and Steroid Metabolism. <i>Frontiers in Genetics</i> , 2020 , 11, 595	4.5	16
102	Metabolic Fingerprints of Circulating IGF-1 and the IGF-1/IGFBP-3 Ratio: A Multifluid Metabolomics Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016 , 101, 4730-4742	5.6	16
101	Large Scale Metabolic Profiling identifies Novel Steroids linked to Rheumatoid Arthritis. <i>Scientific Reports</i> , 2017 , 7, 9137	4.9	16
100	Deciphering the Plasma Proteome of Type 2 Diabetes. <i>Diabetes</i> , 2020 , 69, 2766-2778	0.9	15
99	Identification of putative biomarkers for type 2 diabetes using metabolomics in the Korea Association Resource (KARE) cohort. <i>Metabolomics</i> , 2016 , 12, 1	4.7	15
98	Unraveling the functional role of the orphan solute carrier, SLC22A24 in the transport of steroid conjugates through metabolomic and genome-wide association studies. <i>PLoS Genetics</i> , 2019 , 15, e1008208	6	14
97	Metabolomics Identifies Novel Blood Biomarkers of Pulmonary Function and COPD in the General Population. <i>Metabolites</i> , 2019 , 9,	5.6	14
96	Sex differences in urine metabolites related with risk of diabetes using NMR spectroscopy: results of the study of health in pomerania. <i>Metabolomics</i> , 2015 , 11, 1405-1415	4.7	14
95	A comprehensive metabolomic data set of date palm fruit. <i>Data in Brief</i> , 2018 , 18, 1313-1321	1.2	14
94	Characterization of the metabolic profile associated with serum 25-hydroxyvitamin D: a cross-sectional analysis in population-based data. <i>International Journal of Epidemiology</i> , 2016 , 45, 1469-1481	7.8	14
93	Comparative analysis of plasma metabolomics response to metabolic challenge tests in healthy subjects and influence of the FTO obesity risk allele. <i>Metabolomics</i> , 2014 , 10, 386-401	4.7	14
92	Interrogating causal pathways linking genetic variants, small molecule metabolites, and circulating lipids. <i>Genome Medicine</i> , 2014 , 6, 25	14.4	14
91	Whole genome sequencing in the Middle Eastern Qatari population identifies genetic associations with 45 clinically relevant traits. <i>Nature Communications</i> , 2021 , 12, 1250	17.4	14
90	Revealing the role of the human blood plasma proteome in obesity using genetic drivers. <i>Nature Communications</i> , 2021 , 12, 1279	17.4	14
89	Automated workflow-based exploitation of pathway databases provides new insights into genetic associations of metabolite profiles. <i>BMC Genomics</i> , 2013 , 14, 865	4.5	13
88	Putative gene promoter sequences in the chlorella viruses. <i>Virology</i> , 2008 , 380, 388-93	3.6	13
87	Isolation, characterization, and bioinformatic analysis of calmodulin-binding protein cmbB reveals a novel tandem IP22 repeat common to many Dictyostelium and Mimivirus proteins. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 346, 879-88	3.4	13

86	Where cancer genomics should go next: a clinician's perspective. <i>Human Molecular Genetics</i> , 2014 , 23, R69-75	5.6	12
85	Phenotype-driven identification of modules in a hierarchical map of multifluid metabolic correlations. <i>Npj Systems Biology and Applications</i> , 2017 , 3, 28	5	12
84	Mixing of boundary layer and upper tropospheric ozone during a deep convective event over Western Europe. <i>Atmospheric Environment</i> , 2002 , 36, 4491-4501	5.3	12
83	Alterations in long noncoding RNAs in women with and without polycystic ovarian syndrome. <i>Clinical Endocrinology</i> , 2019 , 91, 793-797	3.4	11
82	On the potential of models for location and scale for genome-wide DNA methylation data. <i>BMC Bioinformatics</i> , 2014 , 15, 232	3.6	11
81	Evaluation of SNP calling using single and multiple-sample calling algorithms by validation against array base genotyping and Mendelian inheritance. <i>BMC Research Notes</i> , 2014 , 7, 747	2.3	11
80	Genetic variants including markers from the exome chip and metabolite traits of type 2 diabetes. <i>Scientific Reports</i> , 2017 , 7, 6037	4.9	10
79	Phydbac (phylogenomic display of bacterial genes): An interactive resource for the annotation of bacterial genomes. <i>Nucleic Acids Research</i> , 2003 , 31, 3720-2	20.1	10
78	Consequences of natural perturbations in the human plasma proteome		10
77	Metabolic profiling of elite athletes with different cardiovascular demand. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2019 , 29, 933-943	4.6	9
76	MoIdentify: phenotype-driven module identification in metabolomics networks at different resolutions. <i>Bioinformatics</i> , 2019 , 35, 532-534	7.2	9
75	A Systems-level Characterization of the Differentiation of Human Embryonic Stem Cells into Mesenchymal Stem Cells. <i>Molecular and Cellular Proteomics</i> , 2019 , 18, 1950-1966	7.6	9
74	Sex-specific metabolic profiles of androgens and its main binding protein SHBG in a middle aged population without diabetes. <i>Scientific Reports</i> , 2017 , 7, 2235	4.9	9
73	The Pharmacogenetic Footprint of ACE Inhibition: A Population-Based Metabolomics Study. <i>PLoS ONE</i> , 2016 , 11, e0153163	3.7	9
72	Characterization of Bulk Phosphatidylcholine Compositions in Human Plasma Using Side-Chain Resolving Lipidomics. <i>Metabolites</i> , 2019 , 9,	5.6	8
71	Single nucleotide variant counts computed from RNA sequencing and cellular traffic into human kidney allografts. <i>American Journal of Transplantation</i> , 2018 , 18, 2429-2442	8.7	8
70	Mendelian inheritance of trimodal CpG methylation sites suggests distal cis-acting genetic effects. <i>Clinical Epigenetics</i> , 2016 , 8, 124	7.7	8
69	Association of childhood traumatization and neuropsychiatric outcomes with altered plasma micro RNA-levels. <i>Neuropsychopharmacology</i> , 2019 , 44, 2030-2037	8.7	8

68	Copy number variations in the genome of the Qatari population. <i>BMC Genomics</i> , 2015 , 16, 834	4.5	8
67	Urinary cell transcriptomics and acute rejection in human kidney allografts. <i>JCI Insight</i> , 2020 , 5,	9.9	8
66	Non-truncating LIFR mutation: causal for prominent congenital pain insensitivity phenotype with progressive vertebral destruction?. <i>Clinical Genetics</i> , 2016 , 89, 210-6	4	8
65	Metabolic GWAS of elite athletes reveals novel genetically-influenced metabolites associated with athletic performance. <i>Scientific Reports</i> , 2019 , 9, 19889	4.9	8
64	Metabolic changes of the blood metabolome after a date fruit challenge. <i>Journal of Functional Foods</i> , 2018 , 49, 267-276	5.1	8
63	Ldlr and ApoE mice better mimic the human metabolite signature of increased carotid intima media thickness compared to other animal models of cardiovascular disease. <i>Atherosclerosis</i> , 2018 , 276, 140-147	3.1	7
62	Fine-Mapping of the Human Blood Plasma N-Glycome onto Its Proteome. <i>Metabolites</i> , 2019 , 9,	5.6	7
61	Response to Comment on Xu et al. Effects of Metformin on Metabolite Profiles and LDL Cholesterol in Patients With Type 2 Diabetes. <i>Diabetes Care</i> 2015;38:1858-1867. <i>Diabetes Care</i> , 2015 , 38, e216-7	14.6	6
60	Metabolic Signatures of Tumor Responses to Doxorubicin Elucidated by Metabolic Profiling. <i>Metabolites</i> , 2020 , 10,	5.6	6
59	Advancing Cancer Treatment by Targeting Glutamine Metabolism-A Roadmap.. <i>Cancers</i> , 2022 , 14,	6.6	6
58	Metabolic and proteomic signatures of hypoglycaemia in type 2 diabetes. <i>Diabetes, Obesity and Metabolism</i> , 2019 , 21, 909-919	6.7	6
57	Proteome-wide assessment of diabetes mellitus in Qatari identifies IGFBP-2 as a risk factor already with early glycaemic disturbances. <i>Archives of Biochemistry and Biophysics</i> , 2020 , 689, 108476	4.1	5
56	Genome-wide scan identifies novel genetic loci regulating salivary metabolite levels. <i>Human Molecular Genetics</i> , 2020 , 29, 864-875	5.6	5
55	Computing multiple sequence/structure alignments with the T-coffee package. <i>Current Protocols in Bioinformatics</i> , 2004 , Chapter 3, Unit3.8	24.2	5
54	Machine Learning Approaches Reveal Metabolic Signatures of Incident Chronic Kidney Disease in Individuals With Prediabetes and Type 2 Diabetes. <i>Diabetes</i> , 2020 , 69, 2756-2765	0.9	5
53	A strategy to incorporate prior knowledge into correlation network cutoff selection. <i>Nature Communications</i> , 2020 , 11, 5153	17.4	5
52	Genotyping-by-sequencing identifies date palm clone preference in agronomics of the State of Qatar. <i>PLoS ONE</i> , 2018 , 13, e0207299	3.7	5
51	Actionable genomic variants in 6045 participants from the Qatar Genome Program. <i>Human Mutation</i> , 2021 , 42, 1584	4.7	5

50	A population study of clinically actionable genetic variation affecting drug response from the Middle East.. <i>Npj Genomic Medicine</i> , 2022 , 7, 10	6.2	5
49	Metabolomic profiling identifies novel associations with Electrolyte and Acid-Base Homeostatic patterns. <i>Scientific Reports</i> , 2019 , 9, 15088	4.9	4
48	PopPANTe: population and pedigree association testing for quantitative data. <i>BMC Genomics</i> , 2017 , 18, 150	4.5	4
47	Qatar Genome: Insights on Genomics from the Middle East.. <i>Human Mutation</i> , 2022 ,	4.7	4
46	Thousands of Qatari genomes inform human migration history and improve imputation of Arab haplotypes. <i>Nature Communications</i> , 2021 , 12, 5929	17.4	4
45	Genome-wide Association Study Of Plasma Proteins Identifies Putatively Causal Genes, Proteins, And Pathways For Cardiovascular Disease		4
44	Deletion of beta-fructofuranosidase (invertase) genes is associated with sucrose content in Date Palm fruit. <i>Plant Direct</i> , 2020 , 4, e00214	3.3	4
43	Metabolic syndrome and the plasma proteome: from association to causation. <i>Cardiovascular Diabetology</i> , 2021 , 20, 111	8.7	4
42	Overview of the Meso-NH model version 5.4 and its applications 2018 ,		4
41	Bipolar disorders in the Arab world: a critical review. <i>Annals of the New York Academy of Sciences</i> , 2015 , 1345, 59-66	6.5	3
40	Bayesian decomposition analysis of bacterial phylogenomic profiles. <i>Molecular Diagnosis and Therapy</i> , 2005 , 5, 63-70		3
39	Tropheryma Whipplei Genome at the Beginning of the Post-Genomic Era. <i>Current Genomics</i> , 2005 , 6, 195-205	2.6	3
38	Defining the landscape of metabolic dysregulations in cancer metastasis.. <i>Clinical and Experimental Metastasis</i> , 2021 , 39, 345	4.7	3
37	Specific Metabolic Markers Are Associated with Future Waist-Gaining Phenotype in Women. <i>PLoS ONE</i> , 2016 , 11, e0157733	3.7	3
36	Metabolic and Metabo-Clinical Signatures of T2D, Obesity, Retinopathy and Dyslipidemia. <i>Diabetes</i> , 2021 ,	0.9	3
35	Identification of genetic variants controlling RNA editing and their effect on RNA structure stabilization. <i>European Journal of Human Genetics</i> , 2020 , 28, 1753-1762	5.3	3
34	Genome-wide investigation identifies a rare copy-number variant burden associated with human spina bifida. <i>Genetics in Medicine</i> , 2021 , 23, 1211-1218	8.1	3
33	Signal Transducer and Activator of Transcription 3 (STAT3) Suppresses STAT1/Interferon Signaling Pathway and Inflammation in Senescent Preadipocytes. <i>Antioxidants</i> , 2021 , 10,	7.1	3

32	Systems biology analysis of human genomes points to key pathways conferring spina bifida risk.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
31	Diagnostic and Prognostic Metabolites Identified for Joint Symptoms in the KORA Population. <i>Journal of Proteome Research</i> , 2016 , 15, 554-62	5.6	2
30	Epigenetic scores for the circulating proteome as tools for disease prediction.. <i>ELife</i> , 2022 , 11,	8.9	2
29	Network-based metabolite ratios for an improved functional characterization of genome-wide association study results		2
28	Epigenetic scores for the circulating proteome as tools for disease prediction		2
27	ProGeM: A framework for the prioritisation of candidate causal genes at molecular quantitative trait loci		2
26	Robust Huber-LASSO for improved prediction of protein, metabolite and gene expression levels relying on individual genotype data. <i>Briefings in Bioinformatics</i> , 2021 , 22,	13.4	2
25	Salivary metabolites associated with a 5-year tooth loss identified in a population-based setting. <i>BMC Medicine</i> , 2021 , 19, 161	11.4	2
24	A graph based method for depicting population characteristics using Genome Wide Data. <i>Journal of Computational Science</i> , 2016 , 15, 11-17	3.4	1
23	MetaRNA-Seq: An Interactive Tool to Browse and Annotate Metadata from RNA-Seq Studies. <i>BioMed Research International</i> , 2015 , 2015, 318064	3	1
22	Genome-Wide Association Studies with Metabolomics 2012 , 265-279		1
21	Characterization of missing values in untargeted MS-based metabolomics data and evaluation of missing data handling strategies		1
20	Defining the genetic control of human blood plasma N-glycome using genome-wide association study		1
19	Deletion of beta-fructofuranosidase (invertase) genes is associated with sucrose content in Date Palm fruit		1
18	Genome-wide scan identifies novel genetic loci regulating salivary metabolite levels		1
17	Evidence of Recombination Suppression Blocks on the Y Chromosome of Date Palm (). <i>Frontiers in Plant Science</i> , 2021 , 12, 634901	6.2	1
16	Connecting the epigenome, metabolome and proteome for a deeper understanding of disease. <i>Journal of Internal Medicine</i> , 2021 , 290, 527-548	10.8	1
15	Plasma Proteomics of Renal Function: A Trans-ethnic Meta-analysis and Mendelian Randomization Study. <i>Journal of the American Society of Nephrology: JASN</i> , 2021 ,	12.7	1

14	Qatar Genome: Insights on Genomics from the Middle East		1
13	Analysis of incidental findings in Qatar genome participants reveals novel functional variants in LMNA and DSP.. <i>Human Molecular Genetics</i> , 2022 ,	5.6	1
12	Matching Drug Metabolites from Non-Targeted Metabolomics to Self-Reported Medication in the Qatar Biobank Study.. <i>Metabolites</i> , 2022 , 12,	5.6	1
11	Advanced glycation end products among patients maintained on antipsychotics. <i>International Clinical Psychopharmacology</i> , 2017 , 32, 256-261	2.2	0
10	pulver: an R package for parallel ultra-rapid p-value computation for linear regression interaction terms. <i>BMC Bioinformatics</i> , 2017 , 18, 429	3.6	0
9	The Proteomic Signature of Recombinant Growth Hormone in Recreational Athletes. <i>Journal of the Endocrine Society</i> , 2021 , 5, bvab156	0.4	0
8	Proteome-wide associations with short- and long-term weight loss and regain after Roux-en-Y gastric bypass surgery. <i>Obesity</i> , 2021 , 30, 129	8	0
7	The metabolic footprint of compromised insulin sensitivity under fasting and hyperinsulinemic-euglycemic clamp conditions in an Arab population. <i>Scientific Reports</i> , 2020 , 10, 17164	4.9	0
6	STXBP6, reciprocally regulated with autophagy, reduces triple negative breast cancer aggressiveness. <i>Clinical and Translational Medicine</i> , 2020 , 10, e147	5.7	0
5	Proteomic Analysis of Plasma Markers in Patients Maintained on Antipsychotics: Comparison to Patients Off Antipsychotics and Normal Controls.. <i>Frontiers in Psychiatry</i> , 2022 , 13, 809071	5	0
4	Ratios of Acetaminophen Metabolites Identify New Loci of Pharmacogenetic Relevance in a Genome-Wide Association Study. <i>Metabolites</i> , 2022 , 12, 496	5.6	0
3	Detection of infiltrating fibroblasts by single-cell transcriptomics in human kidney allografts. <i>PLoS ONE</i> , 2022 , 17, e0267704	3.7	0
2	Deep sequencing of DNA from urine of kidney allograft recipients to estimate donor/recipient-specific DNA fractions. <i>PLoS ONE</i> , 2021 , 16, e0249930	3.7	
1	Omics Resources and Applications in Date Palm. <i>Compendium of Plant Genomes</i> , 2021 , 73-83	0.8	