

Mohit Jain

List of Publications by Year in Descending Order

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Version: 2024-04-28

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

76
papers

2,577
citations

21
h-index

50
g-index

89
ext. papers

3,664
ext. citations

10.9
avg. IF

4.96
L-index

#	Paper	IF	Citations
76	Combined effects of host genetics and diet on human gut microbiota and incident disease in a single population cohort.. <i>Nature Genetics</i> , 2022 , 54, 134-142	36.3	18
75	Early prediction of incident liver disease using conventional risk factors and gut-microbiome-augmented gradient boosting.. <i>Cell Metabolism</i> , 2022 ,	24.6	2
74	Phylogeny-Aware Analysis of Metagenome Community Ecology Based on Matched Reference Genomes while Bypassing Taxonomy.. <i>MSystems</i> , 2022 , e0016722	7.6	3
73	The T-type Calcium Channel Cav3.1 in Y79 Retinoblastoma Cells is Regulated by the Epidermal Growth Factor Receptor via the MAPK Signaling Pathway. <i>Current Eye Research</i> , 2021 , 1-10	2.9	1
72	The oncogene AAMDC links PI3K-AKT-mTOR signaling with metabolic reprogramming in estrogen receptor-positive breast cancer. <i>Nature Communications</i> , 2021 , 12, 1920	17.4	5
71	The tumor suppressor kinase DAPK3 drives tumor-intrinsic immunity through the STING-IFN- γ pathway. <i>Nature Immunology</i> , 2021 , 22, 485-496	19.1	5
70	Associations of healthy food choices with gut microbiota profiles. <i>American Journal of Clinical Nutrition</i> , 2021 , 114, 605-616	7	8
69	Taxonomic signatures of cause-specific mortality risk in human gut microbiome. <i>Nature Communications</i> , 2021 , 12, 2671	17.4	16
68	Vaping-induced metabolomic signatures in the circulation of mice are driven by device type, e-liquid, exposure duration and sex. <i>ERJ Open Research</i> , 2021 , 7,	3.5	1
67	Nontargeted mass spectrometry of dried blood spots for interrogation of the human circulating metabolome. <i>Journal of Mass Spectrometry</i> , 2021 , 56, e4772	2.2	1
66	Imbalance Between Omega-6- and Omega-3-Derived Bioactive Lipids in Arthritis in Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021 , 76, 415-425	6.4	3
65	Biallelic variants in HPDL, encoding 4-hydroxyphenylpyruvate dioxygenase-like protein, lead to an infantile neurodegenerative condition. <i>Genetics in Medicine</i> , 2021 , 23, 524-533	8.1	6
64	Seroprevalence of antibodies to SARS-CoV-2 in healthcare workers: a cross-sectional study. <i>BMJ Open</i> , 2021 , 11, e043584	3	15
63	The one-carbon pool controls mitochondrial energy metabolism via complex I and iron-sulfur clusters. <i>Science Advances</i> , 2021 , 7,	14.3	6
62	Functional Analysis of Immune Signature Genes in Th1* Memory Cells Links ISOC1 and Pyrimidine Metabolism to IFN- γ and IL-17 Production. <i>Journal of Immunology</i> , 2021 , 206, 1181-1193	5.3	1
61	Genome-wide CRISPR/Cas9 screening in human iPS derived cardiomyocytes uncovers novel mediators of doxorubicin cardiotoxicity. <i>Scientific Reports</i> , 2021 , 11, 13866	4.9	1
60	Integration of metabolomics, genomics, and immune phenotypes reveals the causal roles of metabolites in disease. <i>Genome Biology</i> , 2021 , 22, 198	18.3	6

59	Efficient computation of Faith's phylogenetic diversity with applications in characterizing microbiomes. <i>Genome Research</i> , 2021 , 31, 2131-2137	9.7	3
58	Links between gut microbiome composition and fatty liver disease in a large population sample. <i>Gut Microbes</i> , 2021 , 13, 1-22	8.8	12
57	Mapping choline metabolites in normal and transformed cells. <i>Metabolomics</i> , 2020 , 16, 125	4.7	0
56	Efficacy of clinical evaluations for COVID-19 on the front line. <i>International Journal of Emergency Medicine</i> , 2020 , 13, 54	3.9	
55	CBASS Immunity Uses CARF-Related Effectors to Sense 3'5' and 2'5' Linked Cyclic Oligonucleotide Signals and Protect Bacteria from Phage Infection. <i>Cell</i> , 2020 , 182, 38-49.e17	56.2	44
54	Breaking through the surface: more to learn about lipids and cardiovascular disease. <i>Journal of Clinical Investigation</i> , 2020 , 130, 1084-1086	15.9	3
53	Decreased adipose tissue oxygenation associates with insulin resistance in individuals with obesity. <i>Journal of Clinical Investigation</i> , 2020 , 130, 6688-6699	15.9	20
52	HORMA Domain Proteins and a Trip13-like ATPase Regulate Bacterial cGAS-like Enzymes to Mediate Bacteriophage Immunity. <i>Molecular Cell</i> , 2020 , 77, 709-722.e7	17.6	50
51	Structure and Mechanism of a Cyclic Trinucleotide-Activated Bacterial Endonuclease Mediating Bacteriophage Immunity. <i>Molecular Cell</i> , 2020 , 77, 723-733.e6	17.6	56
50	An Early-Onset Subgroup of Type 2 Diabetes: A Multigenerational, Prospective Analysis in the Framingham Heart Study. <i>Diabetes Care</i> , 2020 , 43, 3086-3093	14.6	2
49	Yeast homologs of human MCUR1 regulate mitochondrial proline metabolism. <i>Nature Communications</i> , 2020 , 11, 4866	17.4	9
48	Mapping metabolic oscillations during cell cycle progression. <i>Cell Cycle</i> , 2020 , 19, 2676-2684	4.7	4
47	Cellular sensing of extracellular purine nucleosides triggers an innate IFN- β response. <i>Science Advances</i> , 2020 , 6, eaba3688	14.3	11
46	One-Year Effects of Omega-3 Treatment on Fatty Acids, Oxylipins, and Related Bioactive Lipids and Their Associations with Clinical Lipid and Inflammatory Biomarkers: Findings from a Substudy of the Vitamin D and Omega-3 Trial (VITAL). <i>Metabolites</i> , 2020 , 10,	5.6	4
45	Eicosanoid Inflammatory Mediators Are Robustly Associated With Blood Pressure in the General Population. <i>Journal of the American Heart Association</i> , 2020 , 9, e017598	6	6
44	Fructose stimulated de novo lipogenesis is promoted by inflammation. <i>Nature Metabolism</i> , 2020 , 2, 1034-1045	11.6	65
43	Effects of Diet versus Gastric Bypass on Metabolic Function in Diabetes. <i>New England Journal of Medicine</i> , 2020 , 383, 721-732	59.2	80
42	Metabolomic profiles associated with a mouse model of antipsychotic-induced food intake and weight gain. <i>Scientific Reports</i> , 2020 , 10, 18581	4.9	2

41	Large-Scale Profiling of Cellular Metabolic Activities Using Deep C Labeling Medium. <i>Methods in Molecular Biology</i> , 2020 , 2088, 73-92	1.4	1
40	Deep Neural Networks for Classification of LC-MS Spectral Peaks. <i>Analytical Chemistry</i> , 2019 , 91, 12407-12413	1.3	40
39	Biliopancreatic Diversion Induces Greater Metabolic Improvement Than Roux-en-Y Gastric Bypass. <i>Cell Metabolism</i> , 2019 , 30, 855-864.e3	24.6	15
38	Pro- and anti-inflammatory eicosanoids in psoriatic arthritis. <i>Metabolomics</i> , 2019 , 15, 65	4.7	30
37	Microbiota-Produced γ -Formyl Peptide fMLF Promotes Obesity-Induced Glucose Intolerance. <i>Diabetes</i> , 2019 , 68, 1415-1426	0.9	17
36	Loss of genomic integrity induced by lysosphingolipid imbalance drives ageing in the heart. <i>EMBO Reports</i> , 2019 , 20,	6.5	15
35	Statistical Workflow for Feature Selection in Human Metabolomics Data. <i>Metabolites</i> , 2019 , 9,	5.6	25
34	A Single Visualization Technique for Displaying Multiple Metabolite-Phenotype Associations. <i>Metabolites</i> , 2019 , 9,	5.6	9
33	Choline metabolite, trimethylamine N-oxide (TMAO), is associated with inflammation in psoriatic arthritis. <i>Clinical and Experimental Rheumatology</i> , 2019 , 37, 481-484	2.2	11
32	Mapping Metabolic Events in the Cancer Cell Cycle Reveals Arginine Catabolism in the Committed SGM Phase. <i>Cell Reports</i> , 2019 , 26, 1691-1700.e5	10.6	17
31	Directed Non-targeted Mass Spectrometry and Chemical Networking for Discovery of Eicosanoids and Related Oxylipins. <i>Cell Chemical Biology</i> , 2019 , 26, 433-442.e4	8.2	35
30	High-Throughput Measure of Bioactive Lipids Using Non-targeted Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2019 , 1862, 17-35	1.4	13
29	Restoring mitochondrial calcium uniporter expression in diabetic mouse heart improves mitochondrial calcium handling and cardiac function. <i>Journal of Biological Chemistry</i> , 2018 , 293, 8182-8195	5.4	41
28	Comparison of Non-human Primate versus Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes for Treatment of Myocardial Infarction. <i>Stem Cell Reports</i> , 2018 , 10, 422-435	8	33
27	Lifetime Prevalence and Prognosis of Prediabetes Without Progression to Diabetes. <i>Diabetes Care</i> , 2018 , 41, e117-e118	14.6	18
26	Trajectories of Blood Pressure Elevation Preceding Hypertension Onset: An Analysis of the Framingham Heart Study Original Cohort. <i>JAMA Cardiology</i> , 2018 , 3, 427-431	16.2	18
25	Ethanolamine ameliorates mitochondrial dysfunction in cardiolipin-deficient yeast cells. <i>Journal of Biological Chemistry</i> , 2018 , 293, 10870-10883	5.4	10
24	Gabapentin Can Suppress Cell Proliferation Independent of the Cytosolic Branched-Chain Amino Acid Transferase 1 (BCAT1). <i>Biochemistry</i> , 2018 , 57, 6762-6766	3.2	2

23	Profiling the Metabolism of Human Cells by Deep C Labeling. <i>Cell Chemical Biology</i> , 2018 , 25, 1419-1427 & 14	18
22	Male lifespan extension with 17- β -Estradiol is linked to a sex-specific metabolomic response modulated by gonadal hormones in mice. <i>Aging Cell</i> , 2018 , 17, e12786	9.9 23
21	Visualization, Quantification, and Alignment of Spectral Drift in Population Scale Untargeted Metabolomics Data. <i>Analytical Chemistry</i> , 2017 , 89, 1399-1404	7.8 29
20	Estimation of flux ratios without uptake or release data: Application to serine and methionine metabolism. <i>Metabolic Engineering</i> , 2017 , 43, 137-146	9.7 4
19	The glutamate/cystine xCT antiporter antagonizes glutamine metabolism and reduces nutrient flexibility. <i>Nature Communications</i> , 2017 , 8, 15074	17.4 126
18	Rationalized Computer-Aided Design of Matrix-Metalloprotease-Selective Prodrugs. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 4496-4502	8.3 5
17	A Web Service Framework for Interactive Analysis of Metabolomics Data. <i>Analytical Chemistry</i> , 2017 , 89, 5713-5718	7.8 8
16	A Method for Measuring Metabolism in Sorted Subpopulations of Complex Cell Communities Using Stable Isotope Tracing. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6 2
15	Kr μ pel-Like Factor 4 Regulation of Cholesterol-25-Hydroxylase and Liver X Receptor Mitigates Atherosclerosis Susceptibility. <i>Circulation</i> , 2017 , 136, 1315-1330	16.7 51
14	Inhibition of IKKe and TBK1 Improves Glucose Control in a Subset of Patients with Type 2 Diabetes. <i>Cell Metabolism</i> , 2017 , 26, 157-170.e7	24.6 85
13	Metabolite Profiling and Stable Isotope Tracing in Sorted Subpopulations of Mammalian Cells. <i>Analytical Chemistry</i> , 2016 , 88, 2707-13	7.8 21
12	Pyridylphosphinate metal complexes: synthesis, structural characterisation and biological activity. <i>Dalton Transactions</i> , 2016 , 45, 12807-13	4.3 12
11	Viewing Extrinsic Proteotoxic Stress Through the Lens of Amyloid Cardiomyopathy. <i>Physiology</i> , 2016 , 31, 294-9	9.8 7
10	Simultaneous tracing of carbon and nitrogen isotopes in human cells. <i>Molecular BioSystems</i> , 2016 , 12, 1929-37	17
9	The Mitochondrial Calcium Uniporter Matches Energetic Supply with Cardiac Workload during Stress and Modulates Permeability Transition. <i>Cell Reports</i> , 2015 , 12, 23-34	10.6 222
8	The folate-coupled enzyme MTHFD2 is a nuclear protein and promotes cell proliferation. <i>Scientific Reports</i> , 2015 , 5, 15029	4.9 55
7	Arteriovenous Blood Metabolomics: A Readout of Intra-Tissue Metabostasis. <i>Scientific Reports</i> , 2015 , 5, 12757	4.9 47
6	Lipid-lowering therapies, glucose control and incident diabetes: evidence, mechanisms and clinical implications. <i>Cardiovascular Drugs and Therapy</i> , 2014 , 28, 361-77	3.9 29

5	Metabolite profiling identifies a key role for glycine in rapid cancer cell proliferation. <i>Science</i> , 2012 , 336, 1040-4	333	955
4	Taxonomic Signatures of Long-Term Mortality Risk in Human Gut Microbiota		18
3	Links between gut microbiome composition and fatty liver disease in a large population sample		2
2	Genome-wide association and Mendelian randomization analysis prioritizes bioactive metabolites with putative causal effects on common diseases		4
1	Combined effects of host genetics and diet on human gut microbiota and incident disease in a single population cohort		4