Mohit Jain

List of Publications by Citations

76	2,577	21	50
papers	citations	h-index	g-index
89	3,664	10.9	4.96
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
76	Metabolite profiling identifies a key role for glycine in rapid cancer cell proliferation. *Science*, **2012**, 336, 1040-4	33.3	955
75	The Mitochondrial Calcium Uniporter Matches Energetic Supply with Cardiac Workload during Stress and Modulates Permeability Transition. *Cell Reports*, **2015**, 12, 23-34	10.6	222
74	The glutamate/cystine xCT antiporter antagonizes glutamine metabolism and reduces nutrient flexibility. *Nature Communications*, **2017**, 8, 15074	17.4	126
73	Inhibition of IKKe and TBK1 Improves Glucose Control in a Subset of Patients with Type 2 Diabetes. *Cell Metabolism*, **2017**, 26, 157-170.e7	24.6	85
72	Effects of Diet versus Gastric Bypass on Metabolic Function in Diabetes. *New England Journal of Medicine*, **2020**, 383, 721-732	59.2	80
71	Fructose stimulated de novo lipogenesis is promoted by inflammation. *Nature Metabolism*, **2020**, 2, 1034-1045	14.6	65
70	Structure and Mechanism of a Cyclic Trinucleotide-Activated Bacterial Endonuclease Mediating Bacteriophage Immunity. *Molecular Cell*, **2020**, 77, 723-733.e6	17.6	56
69	The folate-coupled enzyme MTHFD2 is a nuclear protein and promotes cell proliferation. *Scientific Reports*, **2015**, 5, 15029	4.9	55
68	Krüppel-Like Factor 4 Regulation of Cholesterol-25-Hydroxylase and Liver X Receptor Mitigates Atherosclerosis Susceptibility. *Circulation*, **2017**, 136, 1315-1330	16.7	51
67	HORMA Domain Proteins and a Trip13-like ATPase Regulate Bacterial cGAS-like Enzymes to Mediate Bacteriophage Immunity. *Molecular Cell*, **2020**, 77, 709-722.e7	17.6	50
66	Arteriovenous Blood Metabolomics: A Readout of Intra-Tissue Metabostasis. *Scientific Reports*, **2015**, 5, 12757	4.9	47
65	CBASS Immunity Uses CARF-Related Effectors to Sense 3′-5′- and 2′-5′-Linked Cyclic Oligonucleotide Signals and Protect Bacteria from Phage Infection. *Cell*, **2020**, 182, 38-49.e17	56.2	44
64	Restoring mitochondrial calcium uniporter expression in diabetic mouse heart improves mitochondrial calcium handling and cardiac function. *Journal of Biological Chemistry*, **2018**, 293, 8182-8195	5.4	41
63	Deep Neural Networks for Classification of LC-MS Spectral Peaks. *Analytical Chemistry*, **2019**, 91, 12407-12413	7.4	40
62	Directed Non-targeted Mass Spectrometry and Chemical Networking for Discovery of Eicosanoids and Related Oxylipins. *Cell Chemical Biology*, **2019**, 26, 433-442.e4	8.2	35
61	Comparison of Non-human Primate versus Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes for Treatment of Myocardial Infarction. *Stem Cell Reports*, **2018**, 10, 422-435	8	33
60	Pro- and anti-inflammatory eicosanoids in psoriatic arthritis. *Metabolomics*, **2019**, 15, 65	4.7	30

59	Visualization, Quantification, and Alignment of Spectral Drift in Population Scale Untargeted Metabolomics Data. *Analytical Chemistry*, **2017**, 89, 1399-1404	7.8	29
58	Lipid-lowering therapies, glucose control and incident diabetes: evidence, mechanisms and clinical implications. *Cardiovascular Drugs and Therapy*, **2014**, 28, 361-77	3.9	29
57	Statistical Workflow for Feature Selection in Human Metabolomics Data. *Metabolites*, **2019**, 9,	5.6	25
56	Male lifespan extension with 17-β estradiol is linked to a sex-specific metabolomic response modulated by gonadal hormones in mice. *Aging Cell*, **2018**, 17, e12786	9.9	23
55	Metabolite Profiling and Stable Isotope Tracing in Sorted Subpopulations of Mammalian Cells. *Analytical Chemistry*, **2016**, 88, 2707-13	7.8	21
54	Decreased adipose tissue oxygenation associates with insulin resistance in individuals with obesity. *Journal of Clinical Investigation*, **2020**, 130, 6688-6699	15.9	20
53	Lifetime Prevalence and Prognosis of Prediabetes Without Progression to Diabetes. *Diabetes Care*, **2018**, 41, e117-e118	14.6	18
52	Trajectories of Blood Pressure Elevation Preceding Hypertension Onset: An Analysis of the Framingham Heart Study Original Cohort. *JAMA Cardiology*, **2018**, 3, 427-431	16.2	18
51	Combined effects of host genetics and diet on human gut microbiota and incident disease in a single population cohort.. *Nature Genetics*, **2022**, 54, 134-142	36.3	18
50	Taxonomic Signatures of Long-Term Mortality Risk in Human Gut Microbiota		18
49	Profiling the Metabolism of Human Cells by Deep C Labeling. *Cell Chemical Biology*, **2018**, 25, 1419-1427.e4	8.4	18
48	Microbiota-Produced -Formyl Peptide fMLF Promotes Obesity-Induced Glucose Intolerance. *Diabetes*, **2019**, 68, 1415-1426	0.9	17
47	Simultaneous tracing of carbon and nitrogen isotopes in human cells. *Molecular BioSystems*, **2016**, 12, 1929-37		17
46	Mapping Metabolic Events in the Cancer Cell Cycle Reveals Arginine Catabolism in the Committed SGM Phase. *Cell Reports*, **2019**, 26, 1691-1700.e5	10.6	17
45	Taxonomic signatures of cause-specific mortality risk in human gut microbiome. *Nature Communications*, **2021**, 12, 2671	17.4	16
44	Biliopancreatic Diversion Induces Greater Metabolic Improvement Than Roux-en-Y Gastric Bypass. *Cell Metabolism*, **2019**, 30, 855-864.e3	24.6	15
43	Loss of genomic integrity induced by lysosphingolipid imbalance drives ageing in the heart. *EMBO Reports*, **2019**, 20,	6.5	15
42	Seroprevalence of antibodies to SARS-CoV-2 in healthcare workers: a cross-sectional study. *BMJ Open*, **2021**, 11, e043584	3	15

41	High-Throughput Measure of Bioactive Lipids Using Non-targeted Mass Spectrometry. *Methods in Molecular Biology*, **2019**, 1862, 17-35	1.4	13
40	Pyridylphosphinate metal complexes: synthesis, structural characterisation and biological activity. *Dalton Transactions*, **2016**, 45, 12807-13	4.3	12
39	Links between gut microbiome composition and fatty liver disease in a large population sample. *Gut Microbes*, **2021**, 13, 1-22	8.8	12
38	Choline metabolite, trimethylamine N-oxide (TMAO), is associated with inflammation in psoriatic arthritis. *Clinical and Experimental Rheumatology*, **2019**, 37, 481-484	2.2	11
37	Cellular sensing of extracellular purine nucleosides triggers an innate IFN-response. *Science Advances*, **2020**, 6, eaba3688	14.3	11
36	Ethanolamine ameliorates mitochondrial dysfunction in cardiolipin-deficient yeast cells. *Journal of Biological Chemistry*, **2018**, 293, 10870-10883	5.4	10
35	A Single Visualization Technique for Displaying Multiple Metabolite-Phenotype Associations. *Metabolites*, **2019**, 9,	5.6	9
34	Yeast homologs of human MCUR1 regulate mitochondrial proline metabolism. *Nature Communications*, **2020**, 11, 4866	17.4	9
33	A Web Service Framework for Interactive Analysis of Metabolomics Data. *Analytical Chemistry*, **2017**, 89, 5713-5718	7.8	8
32	Associations of healthy food choices with gut microbiota profiles. *American Journal of Clinical Nutrition*, **2021**, 114, 605-616	7	8
31	Viewing Extrinsic Proteotoxic Stress Through the Lens of Amyloid Cardiomyopathy. *Physiology*, **2016**, 31, 294-9	9.8	7
30	Eicosanoid Inflammatory Mediators Are Robustly Associated With Blood Pressure in the General Population. *Journal of the American Heart Association*, **2020**, 9, e017598	6	6
29	Biallelic variants in HPDL, encoding 4-hydroxyphenylpyruvate dioxygenase-like protein, lead to an infantile neurodegenerative condition. *Genetics in Medicine*, **2021**, 23, 524-533	8.1	6
28	The one-carbon pool controls mitochondrial energy metabolism via complex I and iron-sulfur clusters. *Science Advances*, **2021**, 7,	14.3	6
27	Integration of metabolomics, genomics, and immune phenotypes reveals the causal roles of metabolites in disease. *Genome Biology*, **2021**, 22, 198	18.3	6
26	Rationalized Computer-Aided Design of Matrix-Metalloprotease-Selective Prodrugs. *Journal of Medicinal Chemistry*, **2017**, 60, 4496-4502	8.3	5
25	The oncogene AAMDC links PI3K-AKT-mTOR signaling with metabolic reprograming in estrogen receptor-positive breast cancer. *Nature Communications*, **2021**, 12, 1920	17.4	5
24	The tumor suppressor kinase DAPK3 drives tumor-intrinsic immunity through the STING-IFN- pathway. *Nature Immunology*, **2021**, 22, 485-496	19.1	5

23	Estimation of flux ratios without uptake or release data: Application to serine and methionine metabolism. *Metabolic Engineering*, **2017**, 43, 137-146	9.7	4
22	Genome-wide association and Mendelian randomization analysis prioritizes bioactive metabolites with putative causal effects on common diseases		4
21	Combined effects of host genetics and diet on human gut microbiota and incident disease in a single population cohort		4
20	Mapping metabolic oscillations during cell cycle progression. *Cell Cycle*, **2020**, 19, 2676-2684	4.7	4
19	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). *Metabolites*, **2020**, 10,	5.6	4
18	Breaking through the surface: more to learn about lipids and cardiovascular disease. *Journal of Clinical Investigation*, **2020**, 130, 1084-1086	15.9	3
17	Imbalance Between Omega-6- and Omega-3-Derived Bioactive Lipids in Arthritis in Older Adults. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2021**, 76, 415-425	6.4	3
16	Efficient computation of Faith's phylogenetic diversity with applications in characterizing microbiomes. *Genome Research*, **2021**, 31, 2131-2137	9.7	3
15	Phylogeny-Aware Analysis of Metagenome Community Ecology Based on Matched Reference Genomes while Bypassing Taxonomy.. *MSystems*, **2022**, e0016722	7.6	3
14	A Method for Measuring Metabolism in Sorted Subpopulations of Complex Cell Communities Using Stable Isotope Tracing. *Journal of Visualized Experiments*, **2017**,	1.6	2
13	Links between gut microbiome composition and fatty liver disease in a large population sample		2
12	An Early-Onset Subgroup of Type 2 Diabetes: A Multigenerational, Prospective Analysis in the Framingham Heart Study. *Diabetes Care*, **2020**, 43, 3086-3093	14.6	2
11	Metabolomic profiles associated with a mouse model of antipsychotic-induced food intake and weight gain. *Scientific Reports*, **2020**, 10, 18581	4.9	2
10	Gabapentin Can Suppress Cell Proliferation Independent of the Cytosolic Branched-Chain Amino Acid Transferase 1 (BCAT1). *Biochemistry*, **2018**, 57, 6762-6766	3.2	2
9	Early prediction of incident liver disease using conventional risk factors and gut-microbiome-augmented gradient boosting.. *Cell Metabolism*, **2022**,	24.6	2
8	The T-type Calcium Channel Cav3.1 in Y79 Retinoblastoma Cells is Regulated by the Epidermal Growth Factor Receptor via the MAPK Signaling Pathway. *Current Eye Research*, **2021**, 1-10	2.9	1
7	Vaping-induced metabolomic signatures in the circulation of mice are driven by device type, e-liquid, exposure duration and sex. *ERJ Open Research*, **2021**, 7,	3.5	1
6	Nontargeted mass spectrometry of dried blood spots for interrogation of the human circulating metabolome. *Journal of Mass Spectrometry*, **2021**, 56, e4772	2.2	1

5	Functional Analysis of Immune Signature Genes in Th1* Memory Cells Links ISOC1 and Pyrimidine Metabolism to IFN-□and IL-17 Production. *Journal of Immunology*, **2021**, 206, 1181-1193	5.3	1
4	Genome-wide CRISPR/Cas9 screening in human iPS derived cardiomyocytes uncovers novel mediators of doxorubicin cardiotoxicity. *Scientific Reports*, **2021**, 11, 13866	4.9	1
3	Large-Scale Profiling of Cellular Metabolic Activities Using Deep C Labeling Medium. *Methods in Molecular Biology*, **2020**, 2088, 73-92	1.4	1
2	Mapping choline metabolites in normal and transformed cells. *Metabolomics*, **2020**, 16, 125	4.7	0
1	Efficacy of clinical evaluations for COVID-19 on the front line. *International Journal of Emergency Medicine*, **2020**, 13, 54	3.9	