

# Dinesh K Barupal

## List of Publications by Year in Descending Order

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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.

62

papers

2,801

citations

30

h-index

52

g-index

74

ext. papers

3,606

ext. citations

7.3

avg, IF

5.35

L-index

#	Paper	IF	Citations
62	Evidence for Peroxisomal Dysfunction and Dysregulation of the CDP-Choline Pathway in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome. <b>2022</b> ,		1
61	An Amish founder population reveals rare-population genetic determinants of the human lipidome.. <i>Communications Biology</i> , <b>2022</b> , 5, 334	6.7	0
60	CCDB: A database for exploring inter-chemical correlations in metabolomics and exposomics datasets.. <i>Environment International</i> , <b>2022</b> , 164, 107240	12.9	0
59	Comparison of untargeted and targeted perfluoroalkyl acids measured in adolescent girls.. <i>Chemosphere</i> , <b>2021</b> , 290, 133303	8.4	1
58	Data Processing Thresholds for Abundance and Sparsity and Missed Biological Insights in an Untargeted Chemical Analysis of Blood Specimens for Exposomics. <i>Frontiers in Public Health</i> , <b>2021</b> , 9, 653599	6	5
57	Auto-deconvolution and molecular networking of gas chromatography-mass spectrometry data. <i>Nature Biotechnology</i> , <b>2021</b> , 39, 169-173	44.5	36
56	Prioritizing cancer hazard assessments for IARC Monographs using an integrated approach of database fusion and text mining. <i>Environment International</i> , <b>2021</b> , 156, 106624	12.9	3
55	Bioinformatics Approaches for Interpreting Metabolomics Datasets <b>2021</b> , 370-384		
54	Serum triglycerides in Alzheimer disease: Relation to neuroimaging and CSF biomarkers. <i>Neurology</i> , <b>2020</b> , 94, e2088-e2098	6.5	17
53	Retip: Retention Time Prediction for Compound Annotation in Untargeted Metabolomics. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 7515-7522	7.8	44
52	A lipidome-wide association study of the lipoprotein insulin resistance index. <i>Lipids in Health and Disease</i> , <b>2020</b> , 19, 153	4.4	2
51	Comprehensive Circulatory Metabolomics in ME/CFS Reveals Disrupted Metabolism of Acyl Lipids and Steroids. <i>Metabolites</i> , <b>2020</b> , 10,	5.6	25
50	Perspective: Dietary Biomarkers of Intake and Exposure-Exploration with Omics Approaches. <i>Advances in Nutrition</i> , <b>2020</b> , 11, 200-215	10	35
49	Metabolic Network Analysis Reveals Altered Bile Acid Synthesis and Metabolism in Alzheimer's Disease. <i>Cell Reports Medicine</i> , <b>2020</b> , 1, 100138	18	34
48	Functional Microbiomics Reveals Alterations of the Gut Microbiome and Host Co-Metabolism in Patients With Alcoholic Hepatitis. <i>Hepatology Communications</i> , <b>2020</b> , 4, 1168-1182	6	8
47	A Pilot Study on the Effect of Prebiotic on Host-Microbial Co-metabolism in Peritoneal Dialysis Patients. <i>Kidney International Reports</i> , <b>2020</b> , 5, 1309-1315	4.1	6
46	Sets of coregulated serum lipids are associated with Alzheimer's disease pathophysiology. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , <b>2019</b> , 11, 619-627	5.2	24

45	Generating the Blood Exposome Database Using a Comprehensive Text Mining and Database Fusion Approach. <i>Environmental Health Perspectives</i> , <b>2019</b> , 127, 97008	8.4	57
44	Metabolomic analysis of serum and myocardium in compensated heart failure after myocardial infarction. <i>Life Sciences</i> , <b>2019</b> , 221, 212-223	6.8	9
43	A Comprehensive Plasma Metabolomics Dataset for a Cohort of Mouse Knockouts within the International Mouse Phenotyping Consortium. <i>Metabolites</i> , <b>2019</b> , 9,	5.6	19
42	Advisory Group recommendations on priorities for the IARC Monographs. <i>Lancet Oncology, The</i> , <b>2019</b> , 20, 763-764	21.7	44
41	Prioritization of metabolic genes as novel therapeutic targets in estrogen-receptor negative breast tumors using multi-omics data and text mining. <i>Oncotarget</i> , <b>2019</b> , 10, 3894-3909	3.3	9
40	Systematic Error Removal Using Random Forest for Normalizing Large-Scale Untargeted Lipidomics Data. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 3590-3596	7.8	82
39	Integrating bioinformatics approaches for a comprehensive interpretation of metabolomics datasets. <i>Current Opinion in Biotechnology</i> , <b>2018</b> , 54, 1-9	11.4	30
38	Identification of small molecules using accurate mass MS/MS search. <i>Mass Spectrometry Reviews</i> , <b>2018</b> , 37, 513-532	11	194
37	Data Processing, Metabolomic Databases and Pathway Analysis <b>2018</b> , 367-406		1
36	Mouse Knockout Metabolomics Elucidates Metabolic Functions of Mammalian Genes. <i>FASEB Journal</i> , <b>2018</b> , 32, lb108	0.9	
35	Effects of exposure to water disinfection by-products in a swimming pool: A metabolome-wide association study. <i>Environment International</i> , <b>2018</b> , 111, 60-70	12.9	49
34	Generation and quality control of lipidomics data for the alzheimer's disease neuroimaging initiative cohort. <i>Scientific Data</i> , <b>2018</b> , 5, 180263	8.2	29
33	Arginine reprogramming in ADPKD results in arginine-dependent cystogenesis. <i>American Journal of Physiology - Renal Physiology</i> , <b>2018</b> , 315, F1855-F1868	4.3	16
32	Insights into myalgic encephalomyelitis/chronic fatigue syndrome phenotypes through comprehensive metabolomics. <i>Scientific Reports</i> , <b>2018</b> , 8, 10056	4.9	48
31	compMS2Miner: An Automatable Metabolite Identification, Visualization, and Data-Sharing R Package for High-Resolution LC-MS Data Sets. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 3919-3928	7.8	23
30	The impact of ambient air pollution on the human blood metabolome. <i>Environmental Research</i> , <b>2017</b> , 156, 341-348	7.9	45
29	Dietary flavonoid intake and colorectal cancer risk in the European prospective investigation into cancer and nutrition (EPIC) cohort. <i>International Journal of Cancer</i> , <b>2017</b> , 140, 1836-1844	7.5	45
28	Integration of metabolomics, transcriptomics, and microRNA expression profiling reveals a miR-143-HK2-glucose network underlying zinc-deficiency-associated esophageal neoplasia. <i>Oncotarget</i> , <b>2017</b> , 8, 81910-81925	3.3	9

27	Chemical Similarity Enrichment Analysis (ChemRICH) as alternative to biochemical pathway mapping for metabolomic datasets. <i>Scientific Reports</i> , <b>2017</b> , 7, 14567	4.9	133
26	Metabox: A Toolbox for Metabolomic Data Analysis, Interpretation and Integrative Exploration. <i>PLoS ONE</i> , <b>2017</b> , 12, e0171046	3.7	67
25	Environmental Tobacco Smoke Alters Metabolic Systems in Adult Rats. <i>Chemical Research in Toxicology</i> , <b>2016</b> , 29, 1818-1827	4	12
24	Systematic analysis of the polyphenol metabolome using the Phenol-Explorer database. <i>Molecular Nutrition and Food Research</i> , <b>2016</b> , 60, 203-11	5.9	53
23	Prioritizing Chemicals for Risk Assessment Using Chemoinformatics: Examples from the IARC Monographs on Pesticides. <i>Environmental Health Perspectives</i> , <b>2016</b> , 124, 1823-1829	8.4	26
22	Alteration of amino acid and biogenic amine metabolism in hepatobiliary cancers: Findings from a prospective cohort study. <i>International Journal of Cancer</i> , <b>2016</b> , 138, 348-60	7.5	58
21	Polyphenol metabolome in human urine and its association with intake of polyphenol-rich foods across European countries. <i>American Journal of Clinical Nutrition</i> , <b>2015</b> , 102, 905-13	7	100
20	MetMSLine: an automated and fully integrated pipeline for rapid processing of high-resolution LC-MS metabolomic datasets. <i>Bioinformatics</i> , <b>2015</b> , 31, 788-90	7.2	21
19	Systemic Metabolomic Changes in Blood Samples of Lung Cancer Patients Identified by Gas Chromatography Time-of-Flight Mass Spectrometry. <i>Metabolites</i> , <b>2015</b> , 5, 192-210	5.6	51
18	Metabolomics of photobiological hydrogen production induced by CCCP in <i>Chlamydomonas reinhardtii</i> . <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 150-158	6.7	13
17	The blood exposome and its role in discovering causes of disease. <i>Environmental Health Perspectives</i> , <b>2014</b> , 122, 769-74	8.4	203
16	Comparative metabolomics of estrogen receptor positive and estrogen receptor negative breast cancer: alterations in glutamine and beta-alanine metabolism. <i>Journal of Proteomics</i> , <b>2013</b> , 94, 279-88	3.9	113
15	A new metabolomic workflow for early detection of Alzheimer's disease. <i>Journal of Chromatography A</i> , <b>2013</b> , 1302, 65-71	4.5	67
14	Pharmacometabolomic signature of ataxia SCA1 mouse model and lithium effects. <i>PLoS ONE</i> , <b>2013</b> , 8, e70610	3.7	11
13	Inactivation of metabolic genes causes short- and long-range dys-regulation in <i>Escherichia coli</i> metabolic network. <i>PLoS ONE</i> , <b>2013</b> , 8, e78360	3.7	10
12	Metabolomics of human breast cancer: new approaches for tumor typing and biomarker discovery. <i>Genome Medicine</i> , <b>2012</b> , 4, 37	14.4	74
11	MetaMapp: mapping and visualizing metabolomic data by integrating information from biochemical pathways and chemical and mass spectral similarity. <i>BMC Bioinformatics</i> , <b>2012</b> , 13, 99	3.6	161
10	Induced pluripotent stem cells show metabolomic differences to embryonic stem cells in polyunsaturated phosphatidylcholines and primary metabolism. <i>PLoS ONE</i> , <b>2012</b> , 7, e46770	3.7	54

9	System response of metabolic networks in <i>Chlamydomonas reinhardtii</i> to total available ammonium. <i>Molecular and Cellular Proteomics</i> , <b>2012</b> , 11, 973-88	7.6	78
8	The volatile compound BinBase mass spectral database. <i>BMC Bioinformatics</i> , <b>2011</b> , 12, 321	3.6	123
7	Data Processing, Metabolomic Databases and Pathway Analysis <b>2011</b> , 367-406		11
6	Extending biochemical databases by metabolomic surveys.. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 30244	5.4	78
5	Extending biochemical databases by metabolomic surveys. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 23637-43	5.4	61
4	Hydrocarbon phenotyping of algal species using pyrolysis-gas chromatography mass spectrometry. <i>BMC Biotechnology</i> , <b>2010</b> , 10, 40	3.5	24
3	Human gut microbiome adopts an alternative state following small bowel transplantation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 17187-92	11.5	243
2	Prioritization of metabolic genes as novel therapeutic targets in estrogen-receptor negative breast tumors using multi-omics data and text mining		1
1	Serum triglycerides in Alzheimer's disease: Relation to neuroimaging and CSF biomarkers		1