

Dinesh K Barupal

List of Publications by Citations

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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 | 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> , 2009 , 106, 17187-92 | 11.5 | 243 |
| 61 | The blood exposome and its role in discovering causes of disease. <i>Environmental Health Perspectives</i> , 2014 , 122, 769-74 | 8.4 | 203 |
| 60 | Identification of small molecules using accurate mass MS/MS search. <i>Mass Spectrometry Reviews</i> , 2018 , 37, 513-532 | 11 | 194 |
| 59 | MetaMapp: mapping and visualizing metabolomic data by integrating information from biochemical pathways and chemical and mass spectral similarity. <i>BMC Bioinformatics</i> , 2012 , 13, 99 | 3.6 | 161 |
| 58 | Chemical Similarity Enrichment Analysis (ChemRICH) as alternative to biochemical pathway mapping for metabolomic datasets. <i>Scientific Reports</i> , 2017 , 7, 14567 | 4.9 | 133 |
| 57 | The volatile compound BinBase mass spectral database. <i>BMC Bioinformatics</i> , 2011 , 12, 321 | 3.6 | 123 |
| 56 | Comparative metabolomics of estrogen receptor positive and estrogen receptor negative breast cancer: alterations in glutamine and beta-alanine metabolism. <i>Journal of Proteomics</i> , 2013 , 94, 279-88 | 3.9 | 113 |
| 55 | Polyphenol metabolome in human urine and its association with intake of polyphenol-rich foods across European countries. <i>American Journal of Clinical Nutrition</i> , 2015 , 102, 905-13 | 7 | 100 |
| 54 | Systematic Error Removal Using Random Forest for Normalizing Large-Scale Untargeted Lipidomics Data. <i>Analytical Chemistry</i> , 2019 , 91, 3590-3596 | 7.8 | 82 |
| 53 | Extending biochemical databases by metabolomic surveys.. <i>Journal of Biological Chemistry</i> , 2011 , 286, 30244 | 5.4 | 78 |
| 52 | System response of metabolic networks in <i>Chlamydomonas reinhardtii</i> to total available ammonium. <i>Molecular and Cellular Proteomics</i> , 2012 , 11, 973-88 | 7.6 | 78 |
| 51 | Metabolomics of human breast cancer: new approaches for tumor typing and biomarker discovery. <i>Genome Medicine</i> , 2012 , 4, 37 | 14.4 | 74 |
| 50 | A new metabolomic workflow for early detection of Alzheimer's disease. <i>Journal of Chromatography A</i> , 2013 , 1302, 65-71 | 4.5 | 67 |
| 49 | Metabox: A Toolbox for Metabolomic Data Analysis, Interpretation and Integrative Exploration. <i>PLoS ONE</i> , 2017 , 12, e0171046 | 3.7 | 67 |
| 48 | Extending biochemical databases by metabolomic surveys. <i>Journal of Biological Chemistry</i> , 2011 , 286, 23637-43 | 5.4 | 61 |
| 47 | Alteration of amino acid and biogenic amine metabolism in hepatobiliary cancers: Findings from a prospective cohort study. <i>International Journal of Cancer</i> , 2016 , 138, 348-60 | 7.5 | 58 |
| 46 | Generating the Blood Exposome Database Using a Comprehensive Text Mining and Database Fusion Approach. <i>Environmental Health Perspectives</i> , 2019 , 127, 97008 | 8.4 | 57 |

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| 45 | Induced pluripotent stem cells show metabolomic differences to embryonic stem cells in polyunsaturated phosphatidylcholines and primary metabolism. <i>PLoS ONE</i> , 2012 , 7, e46770 | 3.7 | 54 |
| 44 | Systematic analysis of the polyphenol metabolome using the Phenol-Explorer database. <i>Molecular Nutrition and Food Research</i> , 2016 , 60, 203-11 | 5.9 | 53 |
| 43 | Systemic Metabolomic Changes in Blood Samples of Lung Cancer Patients Identified by Gas Chromatography Time-of-Flight Mass Spectrometry. <i>Metabolites</i> , 2015 , 5, 192-210 | 5.6 | 51 |
| 42 | Effects of exposure to water disinfection by-products in a swimming pool: A metabolome-wide association study. <i>Environment International</i> , 2018 , 111, 60-70 | 12.9 | 49 |
| 41 | Insights into myalgic encephalomyelitis/chronic fatigue syndrome phenotypes through comprehensive metabolomics. <i>Scientific Reports</i> , 2018 , 8, 10056 | 4.9 | 48 |
| 40 | The impact of ambient air pollution on the human blood metabolome. <i>Environmental Research</i> , 2017 , 156, 341-348 | 7.9 | 45 |
| 39 | Dietary flavonoid intake and colorectal cancer risk in the European prospective investigation into cancer and nutrition (EPIC) cohort. <i>International Journal of Cancer</i> , 2017 , 140, 1836-1844 | 7.5 | 45 |
| 38 | Advisory Group recommendations on priorities for the IARC Monographs. <i>Lancet Oncology, The</i> , 2019 , 20, 763-764 | 21.7 | 44 |
| 37 | Retip: Retention Time Prediction for Compound Annotation in Untargeted Metabolomics. <i>Analytical Chemistry</i> , 2020 , 92, 7515-7522 | 7.8 | 44 |
| 36 | Auto-deconvolution and molecular networking of gas chromatography-mass spectrometry data. <i>Nature Biotechnology</i> , 2021 , 39, 169-173 | 44.5 | 36 |
| 35 | Perspective: Dietary Biomarkers of Intake and Exposure-Exploration with Omics Approaches. <i>Advances in Nutrition</i> , 2020 , 11, 200-215 | 10 | 35 |
| 34 | Metabolic Network Analysis Reveals Altered Bile Acid Synthesis and Metabolism in Alzheimer's Disease. <i>Cell Reports Medicine</i> , 2020 , 1, 100138 | 18 | 34 |
| 33 | Integrating bioinformatics approaches for a comprehensive interpretation of metabolomics datasets. <i>Current Opinion in Biotechnology</i> , 2018 , 54, 1-9 | 11.4 | 30 |
| 32 | Generation and quality control of lipidomics data for the alzheimer's disease neuroimaging initiative cohort. <i>Scientific Data</i> , 2018 , 5, 180263 | 8.2 | 29 |
| 31 | Prioritizing Chemicals for Risk Assessment Using Chemoinformatics: Examples from the IARC Monographs on Pesticides. <i>Environmental Health Perspectives</i> , 2016 , 124, 1823-1829 | 8.4 | 26 |
| 30 | Comprehensive Circulatory Metabolomics in ME/CFS Reveals Disrupted Metabolism of Acyl Lipids and Steroids. <i>Metabolites</i> , 2020 , 10, | 5.6 | 25 |
| 29 | Sets of coregulated serum lipids are associated with Alzheimer's disease pathophysiology. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2019 , 11, 619-627 | 5.2 | 24 |
| 28 | Hydrocarbon phenotyping of algal species using pyrolysis-gas chromatography mass spectrometry. <i>BMC Biotechnology</i> , 2010 , 10, 40 | 3.5 | 24 |

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| 27 | compMS2Miner: An Automatable Metabolite Identification, Visualization, and Data-Sharing R Package for High-Resolution LC-MS Data Sets. <i>Analytical Chemistry</i> , 2017 , 89, 3919-3928 | 7.8 | 23 |
| 26 | MetMSLine: an automated and fully integrated pipeline for rapid processing of high-resolution LC-MS metabolomic datasets. <i>Bioinformatics</i> , 2015 , 31, 788-90 | 7.2 | 21 |
| 25 | A Comprehensive Plasma Metabolomics Dataset for a Cohort of Mouse Knockouts within the International Mouse Phenotyping Consortium. <i>Metabolites</i> , 2019 , 9, | 5.6 | 19 |
| 24 | Serum triglycerides in Alzheimer disease: Relation to neuroimaging and CSF biomarkers. <i>Neurology</i> , 2020 , 94, e2088-e2098 | 6.5 | 17 |
| 23 | Arginine reprogramming in ADPKD results in arginine-dependent cystogenesis. <i>American Journal of Physiology - Renal Physiology</i> , 2018 , 315, F1855-F1868 | 4.3 | 16 |
| 22 | Metabolomics of photobiological hydrogen production induced by CCCP in <i>Chlamydomonas reinhardtii</i> . <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 150-158 | 6.7 | 13 |
| 21 | Environmental Tobacco Smoke Alters Metabolic Systems in Adult Rats. <i>Chemical Research in Toxicology</i> , 2016 , 29, 1818-1827 | 4 | 12 |
| 20 | Data Processing, Metabolomic Databases and Pathway Analysis 2011 , 367-406 | | 11 |
| 19 | Pharmacometabolomic signature of ataxia SCA1 mouse model and lithium effects. <i>PLoS ONE</i> , 2013 , 8, e70610 | 3.7 | 11 |
| 18 | Inactivation of metabolic genes causes short- and long-range dys-regulation in <i>Escherichia coli</i> metabolic network. <i>PLoS ONE</i> , 2013 , 8, e78360 | 3.7 | 10 |
| 17 | Metabolomic analysis of serum and myocardium in compensated heart failure after myocardial infarction. <i>Life Sciences</i> , 2019 , 221, 212-223 | 6.8 | 9 |
| 16 | Integration of metabolomics, transcriptomics, and microRNA expression profiling reveals a miR-143-HK2-glucose network underlying zinc-deficiency-associated esophageal neoplasia. <i>Oncotarget</i> , 2017 , 8, 81910-81925 | 3.3 | 9 |
| 15 | Prioritization of metabolic genes as novel therapeutic targets in estrogen-receptor negative breast tumors using multi-omics data and text mining. <i>Oncotarget</i> , 2019 , 10, 3894-3909 | 3.3 | 9 |
| 14 | Functional Microbiomics Reveals Alterations of the Gut Microbiome and Host Co-Metabolism in Patients With Alcoholic Hepatitis. <i>Hepatology Communications</i> , 2020 , 4, 1168-1182 | 6 | 8 |
| 13 | A Pilot Study on the Effect of Prebiotic on Host-Microbial Co-metabolism in Peritoneal Dialysis Patients. <i>Kidney International Reports</i> , 2020 , 5, 1309-1315 | 4.1 | 6 |
| 12 | 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> , 2021 , 9, 653599 | 6 | 5 |
| 11 | Prioritizing cancer hazard assessments for IARC Monographs using an integrated approach of database fusion and text mining. <i>Environment International</i> , 2021 , 156, 106624 | 12.9 | 3 |
| 10 | A lipidome-wide association study of the lipoprotein insulin resistance index. <i>Lipids in Health and Disease</i> , 2020 , 19, 153 | 4.4 | 2 |

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| 9 | Data Processing, Metabolomic Databases and Pathway Analysis 2018 , 367-406 | | 1 |
| 8 | Comparison of untargeted and targeted perfluoroalkyl acids measured in adolescent girls.. <i>Chemosphere</i> , 2021 , 290, 133303 | 8.4 | 1 |
| 7 | Prioritization of metabolic genes as novel therapeutic targets in estrogen-receptor negative breast tumors using multi-omics data and text mining | | 1 |
| 6 | Serum triglycerides in Alzheimer's disease: Relation to neuroimaging and CSF biomarkers | | 1 |
| 5 | Evidence for Peroxisomal Dysfunction and Dysregulation of the CDP-Choline Pathway in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome. 2022 , | | 1 |
| 4 | An Amish founder population reveals rare-population genetic determinants of the human lipidome.. <i>Communications Biology</i> , 2022 , 5, 334 | 6.7 | 0 |
| 3 | CCDB: A database for exploring inter-chemical correlations in metabolomics and exposomics datasets.. <i>Environment International</i> , 2022 , 164, 107240 | 12.9 | 0 |
| 2 | Mouse Knockout Metabolomics Elucidates Metabolic Functions of Mammalian Genes. <i>FASEB Journal</i> , 2018 , 32, lb108 | 0.9 | |
| 1 | Bioinformatics Approaches for Interpreting Metabolomics Datasets 2021 , 370-384 | | |