

Dinesh K Barupal

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

4,165
citations

126708

33
h-index

143772

57
g-index

74
all docs

74
docs citations

74
times ranked

7489
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of small molecules using accurate mass MS/MS search. <i>Mass Spectrometry Reviews</i> , 2018, 37, 513-532.	2.8	292
2	The Blood Exposome and Its Role in Discovering Causes of Disease. <i>Environmental Health Perspectives</i> , 2014, 122, 769-774.	2.8	283
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> , 2009, 106, 17187-17192.	3.3	281
4	Chemical Similarity Enrichment Analysis (ChemRICH) as alternative to biochemical pathway mapping for metabolomic datasets. <i>Scientific Reports</i> , 2017, 7, 14567.	1.6	257
5	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.	1.2	203
6	The volatile compound BinBase mass spectral database. <i>BMC Bioinformatics</i> , 2011, 12, 321.	1.2	173
7	Systematic Error Removal Using Random Forest for Normalizing Large-Scale Untargeted Lipidomics Data. <i>Analytical Chemistry</i> , 2019, 91, 3590-3596.	3.2	163
8	Generating the Blood Exposome Database Using a Comprehensive Text Mining and Database Fusion Approach. <i>Environmental Health Perspectives</i> , 2019, 127, 97008.	2.8	157
9	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, 279-288.	1.2	144
10	Retip: Retention Time Prediction for Compound Annotation in Untargeted Metabolomics. <i>Analytical Chemistry</i> , 2020, 92, 7515-7522.	3.2	128
11	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, 905-913.	2.2	118
12	Metabolic Network Analysis Reveals Altered Bile Acid Synthesis and Metabolism in Alzheimer's Disease. <i>Cell Reports Medicine</i> , 2020, 1, 100138.	3.3	102
13	System Response of Metabolic Networks in <i>Chlamydomonas reinhardtii</i> to Total Available Ammonium. <i>Molecular and Cellular Proteomics</i> , 2012, 11, 973-988.	2.5	93
14	Metabolomics of human breast cancer: new approaches for tumor typing and biomarker discovery. <i>Genome Medicine</i> , 2012, 4, 37.	3.6	88
15	Metabox: A Toolbox for Metabolomic Data Analysis, Interpretation and Integrative Exploration. <i>PLoS ONE</i> , 2017, 12, e0171046.	1.1	85
16	A new metabolomic workflow for early detection of Alzheimer's disease. <i>Journal of Chromatography A</i> , 2013, 1302, 65-71.	1.8	83
17	Insights into myalgic encephalomyelitis/chronic fatigue syndrome phenotypes through comprehensive metabolomics. <i>Scientific Reports</i> , 2018, 8, 10056.	1.6	79
18	Perspective: Dietary Biomarkers of Intake and Exposure—Exploration with Omics Approaches. <i>Advances in Nutrition</i> , 2020, 11, 200-215.	2.9	79

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19	Auto-deconvolution and molecular networking of gas chromatography-mass spectrometry data. <i>Nature Biotechnology</i> , 2021, 39, 169-173.	9.4	78
20	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, 348-360.	2.3	77
21	Advisory Group recommendations on priorities for the IARC Monographs. <i>Lancet Oncology</i> , The, 2019, 20, 763-764.	5.1	70
22	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.	1.3	69
23	Induced Pluripotent Stem Cells Show Metabolomic Differences to Embryonic Stem Cells in Polyunsaturated Phosphatidylcholines and Primary Metabolism. <i>PLoS ONE</i> , 2012, 7, e46770.	1.1	68
24	Extending Biochemical Databases by Metabolomic Surveys. <i>Journal of Biological Chemistry</i> , 2011, 286, 23637-23643.	1.6	67
25	Systematic analysis of the polyphenol metabolome using the PhenolExplorer database. <i>Molecular Nutrition and Food Research</i> , 2016, 60, 203-211.	1.5	67
26	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.	4.8	66
27	Serum triglycerides in Alzheimer disease. <i>Neurology</i> , 2020, 94, e2088-e2098.	1.5	63
28	The impact of ambient air pollution on the human blood metabolome. <i>Environmental Research</i> , 2017, 156, 341-348.	3.7	61
29	Generation and quality control of lipidomics data for the alzheimer's disease neuroimaging initiative cohort. <i>Scientific Data</i> , 2018, 5, 180263.	2.4	55
30	Comprehensive Circulatory Metabolomics in ME/CFS Reveals Disrupted Metabolism of Acyl Lipids and Steroids. <i>Metabolites</i> , 2020, 10, 34.	1.3	53
31	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.	2.3	50
32	Integrating bioinformatics approaches for a comprehensive interpretation of metabolomics datasets. <i>Current Opinion in Biotechnology</i> , 2018, 54, 1-9.	3.3	50
33	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.	1.2	45
34	A Comprehensive Plasma Metabolomics Dataset for a Cohort of Mouse Knockouts within the International Mouse Phenotyping Consortium. <i>Metabolites</i> , 2019, 9, 101.	1.3	40
35	Prioritizing Chemicals for Risk Assessment Using Chemoinformatics: Examples from the IARC Monographs on Pesticides. <i>Environmental Health Perspectives</i> , 2016, 124, 1823-1829.	2.8	30
36	Arginine reprogramming in ADPKD results in arginine-dependent cystogenesis. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 315, F1855-F1868.	1.3	28

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37	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.	3.2	27
38	Hydrocarbon phenotyping of algal species using pyrolysis-gas chromatography mass spectrometry. <i>BMC Biotechnology</i> , 2010, 10, 40.	1.7	26
39	MetMSLine: an automated and fully integrated pipeline for rapid processing of high-resolution LC-MS metabolomic datasets. <i>Bioinformatics</i> , 2015, 31, 788-790.	1.8	25
40	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.	2.0	22
41	Metabolomic analysis of serum and myocardium in compensated heart failure after myocardial infarction. <i>Life Sciences</i> , 2019, 221, 212-223.	2.0	19
42	Metabolomics of photobiological hydrogen production induced by CCCP in <i>Chlamydomonas reinhardtii</i> . <i>International Journal of Hydrogen Energy</i> , 2014, 39, 150-158.	3.8	17
43	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.	0.8	14
44	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.	1.1	14
45	Metabolomic Evidence for Peroxisomal Dysfunction in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7906.	1.8	14
46	Pharmacometabolomic Signature of Ataxia SCA1 Mouse Model and Lithium Effects. <i>PLoS ONE</i> , 2013, 8, e70610.	1.1	13
47	Environmental Tobacco Smoke Alters Metabolic Systems in Adult Rats. <i>Chemical Research in Toxicology</i> , 2016, 29, 1818-1827.	1.7	12
48	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.	0.4	12
49	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.	1.3	12
50	Prioritizing cancer hazard assessments for IARC Monographs using an integrated approach of database fusion and text mining. <i>Environment International</i> , 2021, 156, 106624.	4.8	11
51	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.	0.8	11
52	Comparison of untargeted and targeted perfluoroalkyl acids measured in adolescent girls. <i>Chemosphere</i> , 2022, 290, 133303.	4.2	8
53	An Amish founder population reveals rare-population genetic determinants of the human lipidome. <i>Communications Biology</i> , 2022, 5, 334.	2.0	7
54	A lipidome-wide association study of the lipoprotein insulin resistance index. <i>Lipids in Health and Disease</i> , 2020, 19, 153.	1.2	6

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55	IDSL.IPA Characterizes the Organic Chemical Space in Untargeted LC/HRMS Data Sets. Journal of Proteome Research, 2022, 21, 1485-1494.	1.8	6
56	CCDB: A database for exploring inter-chemical correlations in metabolomics and exposomics datasets. Environment International, 2022, 164, 107240.	4.8	4
57	Genomics of Postprandial Lipidomics in the Genetics of Lipid-Lowering Drugs and Diet Network Study. Nutrients, 2021, 13, 4000.	1.7	2
58	Extending biochemical databases by metabolomic surveys.. Journal of Biological Chemistry, 2011, 286, 30244.	1.6	0
59	Bioinformatics Approaches for Interpreting Metabolomics Datasets. , 2021, , 370-384.		0
60	Mouse Knockout Metabolomics Elucidates Metabolic Functions of Mammalian Genes. FASEB Journal, 2018, 32, lb108.	0.2	0
61	Maternal Microbial Metabolites and Risk of Fetal Growth Extremes: A Longitudinal Multi-Racial/Ethnic Cohort Study. Current Developments in Nutrition, 2022, 6, 628.	0.1	0