Biswapriya B. Misra

List of Publications by Citations

72 papers	1,645 citations	22 h-index	38 g-index
91 ext. papers	2,319 ext. citations	4.6 avg, IF	6.06 L-index

#	Paper	IF	Citations
72	Draft genome sequence of the rubber tree Hevea brasiliensis. *BMC Genomics*, **2013**, 14, 75	4.5	181
71	Integrated Omics: Tools, Advances, and Future Approaches. *Journal of Molecular Endocrinology*, **2018**,	4.5	162
70	Updates in metabolomics tools and resources: 2014-2015. *Electrophoresis*, **2016**, 37, 86-110	3.6	102
69	Plant single-cell and single-cell-type metabolomics. *Trends in Plant Science*, **2014**, 19, 637-46	13.1	84
68	2392: Detecting cardiometabolic disease through breath analysis: A metabolomic approach. *Journal of Clinical and Translational Science*, **2017**, 1, 64-64	0.4	78
67	Integrated microbiome and metabolome analysis reveals a novel interplay between commensal bacteria and metabolites in colorectal cancer. *Theranostics*, **2019**, 9, 4101-4114	12.1	69
66	Jasmonate-mediated stomatal closure under elevated CO revealed by time-resolved metabolomics. *Plant Journal*, **2016**, 88, 947-962	6.9	56
65	The guard cell metabolome: functions in stomatal movement and global food security. *Frontiers in Plant Science*, **2015**, 6, 334	6.2	54
64	Software tools, databases and resources in metabolomics: updates from 2018 to 2019. *Metabolomics*, **2020**, 16, 36	4.7	43
63	New tools and resources in metabolomics: 2016-2017. *Electrophoresis*, **2018**, 39, 909-923	3.6	43
62	Review of emerging metabolomic tools and resources: 2015-2016. *Electrophoresis*, **2017**, 38, 2257-2274	3.6	40
61	State of the Field in Multi-Omics Research: From Computational Needs to Data Mining and Sharing. *Frontiers in Genetics*, **2020**, 11, 610798	4.5	37
60	Evaluation of in vivo anti-hyperglycemic and antioxidant potentials of -santalol and sandalwood oil. *Phytomedicine*, **2013**, 20, 409-16	6.5	36
59	Auto-deconvolution and molecular networking of gas chromatography-mass spectrometry data. *Nature Biotechnology*, **2021**, 39, 169-173	44.5	36
58	Comparative phytochemical analysis and antibacterial efficacy of in vitro and in vivo extracts from East Indian sandalwood tree (Santalum album L.). *Letters in Applied Microbiology*, **2012**, 55, 476-86	2.9	35
57	New software tools, databases, and resources in metabolomics: updates from 2020. *Metabolomics*, **2021**, 17, 49	4.7	34
56	Challenges and Opportunities in Cancer Metabolomics. *Proteomics*, **2019**, 19, e1900042	4.8	32

55	Tools and resources for metabolomics research community: A 2017-2018 update. *Electrophoresis*, **2019**, 40, 227-246	3.6	31
54	Chemodiversity of the Glucosinolate-Myrosinase System at the Single Cell Type Resolution. *Frontiers in Plant Science*, **2019**, 10, 618	6.2	25
53	Polyploidy and the proteome. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2016**, 1864, 896-907	4	25
52	Advances in understanding CO2 responsive plant metabolomes in the era of climate change. *Metabolomics*, **2015**, 11, 1478-1491	4.7	25
51	Metabolomic Responses of Guard Cells and Mesophyll Cells to Bicarbonate. *PLoS ONE*, **2015**, 10, e0144206	3.7	24
50	Developmental variations in sesquiterpenoid biosynthesis in East Indian sandalwood tree (Santalum album L.). *Trees - Structure and Function*, **2013**, 27, 1071-1086	2.6	22
49	Data normalization strategies in metabolomics: Current challenges, approaches, and tools. *European Journal of Mass Spectrometry*, **2020**, 26, 165-174	1.1	22
48	New nodes and edges in the glucosinolate molecular network revealed by proteomics and metabolomics of Arabidopsis myb28/29 and cyp79B2/B3 glucosinolate mutants. *Journal of Proteomics*, **2016**, 138, 1-19	3.9	21
47	High-resolution gas chromatography/mass spectrometry metabolomics of non-human primate serum. *Rapid Communications in Mass Spectrometry*, **2018**, 32, 1497-1506	2.2	21
46	High Resolution GC-Orbitrap-MS Metabolomics Using Both Electron Ionization and Chemical Ionization for Analysis of Human Plasma. *Journal of Proteome Research*, **2020**, 19, 2717-2731	5.6	19
45	Whole genome sequence analyses of brain imaging measures in the Framingham Study. *Neurology*, **2018**, 90, e188-e196	6.5	19
44	The chemical exposome of type 2 diabetes mellitus: Opportunities and challenges in the omics era. *Diabetes and Metabolic Syndrome: Clinical Research and Reviews*, **2020**, 14, 23-38	8.9	16
43	Optimized GC-MS metabolomics for the analysis of kidney tissue metabolites. *Metabolomics*, **2018**, 14, 75	4.7	13
42	TLC-bioautographic evaluation of in vitro anti-tyrosinase and anti-cholinesterase potentials of sandalwood oil. *Natural Product Communications*, **2013**, 8, 253-6	0.9	13
41	Analysis of serum changes in response to a high fat high cholesterol diet challenge reveals metabolic biomarkers of atherosclerosis. *PLoS ONE*, **2019**, 14, e0214487	3.7	12
40	Differential metabolomic responses of PAMP-triggered immunity and effector-triggered immunity in Arabidopsis suspension cells. *Metabolomics*, **2016**, 12, 1	4.7	12
39	Culture of East Indian sandalwood tree somatic embryos in air-lift bioreactors for production of santalols, phenolics and arabinogalactan proteins. *AoB PLANTS*, **2013**, 5,	2.9	12
38	Biological Activities of East Indian Sandalwood Tree, Santalum album **2013**,		12

37	Updates on resources, software tools, and databases for plant proteomics in 2016-2017. *Electrophoresis*, **2018**, 39, 1543-1557	3.6	11
36	Purification and characterization of a betanidin glucosyltransferase from Amaranthus tricolor L catalyzing non-specific biotransformation of flavonoids. *Plant Science*, **2013**, 211, 61-9	5.3	11
35	When plants brace for the emerging pathogens. *Physiological and Molecular Plant Pathology*, **2015**, 92, 181-185	2.6	9
34	Diversity of methanogenic archaea in freshwater sediments of lacustrine ecosystems. *Journal of Basic Microbiology*, **2018**, 58, 101-119	2.7	9
33	Ten tips for overcoming language barriers in science. *Nature Human Behaviour*, **2021**, 5, 1119-1122	12.8	9
32	Metabolomics Tools to Study Links Between Pollution and Human Health: an Exposomics Perspective. *Current Pollution Reports*, **2019**, 5, 93-111	7.6	8
31	Metabolomic Responses of Arabidopsis Suspension Cells to Bicarbonate under Light and Dark Conditions. *Scientific Reports*, **2016**, 6, 35778	4.9	7
30	The Chemical Exposome of Human Aging. *Frontiers in Genetics*, **2020**, 11, 574936	4.5	7
29	The Black-Box of Plant Apoplast Lipidomes. *Frontiers in Plant Science*, **2016**, 7, 323	6.2	7
28	The guard cell ionome: Understanding the role of ions in guard cell functions. *Progress in Biophysics and Molecular Biology*, **2019**, 146, 50-62	4.7	7
27	The Connection and Disconnection Between Microbiome and Metabolome: A Critical Appraisal in Clinical Research. *Biological Research for Nursing*, **2020**, 22, 561-576	2.6	6
26	Volatile profiling from heartwood of East Indian sandalwood tree. *Journal of Pharmacy Research*, **2013**, 7, 299-303		6
25	TLC-Bioautographic Evaluation of In Vitro Anti-tyrosinase and Anti-cholinesterase Potentials of Sandalwood Oil. *Natural Product Communications*, **2013**, 8, 1934578X1300800	0.9	6
24	Phytotoxicity, Morphological, and Metabolic Effects of the Sesquiterpenoid Nerolidol on Seedling Roots. *Plants*, **2020**, 9,	4.5	6
23	Advances in high resolution GC-MS technology: a focus on the application of GC-Orbitrap-MS in metabolomics and exposomics for FAIR practices. *Analytical Methods*, **2021**, 13, 2265-2282	3.2	6
22	Short-term effects of the allelochemical umbelliferone on Triticum durum L. metabolism through GC-MS based untargeted metabolomics. *Plant Science*, **2020**, 298, 110548	5.3	5
21	Nonhuman primate breath volatile organic compounds associate with developmental programming and cardio-metabolic status. *Journal of Breath Research*, **2018**, 12, 036016	3.1	5
20	Open-Source Software Tools, Databases, and Resources for Single-Cell and Single-Cell-Type Metabolomics. *Methods in Molecular Biology*, **2020**, 2064, 191-217	1.4	5

19	Untargeted metabolomics in primary murine bone marrow stromal cells reveals distinct profile throughout osteoblast differentiation. *Metabolomics*, **2021**, 17, 86	4.7	5
18	H NMR metabolomic analysis of skin and blubber of bottlenose dolphins reveals a functional metabolic dichotomy. *Comparative Biochemistry and Physiology Part D: Genomics and Proteomics*, **2019**, 30, 25-32	2	4
17	Cataloging the Brassica napus seed metabolome. *Cogent Food and Agriculture*, **2016**, 2,	1.8	4
16	An Updated Snapshot of Recent Advances in Transcriptomics and Genomics of Phytomedicinals. *Postdoc Journal*, **2014**, 2,		4
15	Plant Volatilome Resources. *Current Metabolomics*, **2016**, 4, 148-150	1	4
14	Individualized metabolomics: opportunities and challenges. *Clinical Chemistry and Laboratory Medicine*, **2020**, 58, 939-947	5.9	4
13	Solute Carrier Family 37 Member 2 (SLC37A2) Negatively Regulates Murine Macrophage Inflammation by Controlling Glycolysis. *IScience*, **2020**, 23, 101125	6.1	2
12	High-throughput phenotyping by applying digital morphometrics and fluorescence induction curves in seeds to identifying variations: A case study of Annona (Annonaceae) species. *Information Processing in Agriculture*, **2018**, 5, 443-455	4.2	2
11	Immunolocalization of □santalol in sandalwood. *Journal of Essential Oil Research*, **2014**, 26, 238-246	2.3	2
10	Is a plant□ ploidy status reflected in its metabolome?. *Postdoc Journal*, **2015**, 3,		2
9	Biological Activities of East Indian Sandalwood Tree, Santalum album		2
8	Visual gene network analysis of aging-specific gene co-expression in human indicates overlaps with immuno-pathological regulations. *4open*, **2018**, 1, 4	0.8	2
7	Time-course analysis of Streptococcus sanguinis after manganese depletion reveals changes in glycolytic, nucleotide, and redox metabolites		2
6	DIMEdb: an integrated database and web service for metabolite identification in direct infusion mass spectrometery		2
5	Time-course analysis of Streptococcus sanguinis after manganese depletion reveals changes in glycolytic and nucleic acid metabolites. *Metabolomics*, **2021**, 17, 44	4.7	1
4	Loss of function of lysosomal acid lipase (LAL) profoundly impacts osteoblastogenesis and increases fracture risk in humans. *Bone*, **2021**, 148, 115946	4.7	1
3	Causal reasoning over knowledge graphs leveraging drug-perturbed and disease-specific transcriptomic signatures for drug discovery.. *PLoS Computational Biology*, **2022**, 18, e1009909	5	0
2	A Workflow in Single Cell-Type Metabolomics: From Data Pre-Processing and Statistical Analysis to Biological Insights **2019**, 105-127		

1 Editorial for special issue: Metabolomics in India. *Analytical Science Advances*, **2021**, 2, 495-496 1.1