

Systematic Structural Characterization of Metabolites in Substrate-Product Pair Networks

Plant Cell

26, 929-945

DOI: [10.1105/tpc.113.122242](https://doi.org/10.1105/tpc.113.122242)

Citation Report

#	ARTICLE	IF	CITATIONS
1	MetaDB a Data Processing Workflow in Untargeted MS-Based Metabolomics Experiments. <i>Frontiers in Bioengineering and Biotechnology</i> , 2014, 2, 72.	2.0	29
2	Phenylcoumaran Benzylic Ether Reductase Prevents Accumulation of Compounds Formed under Oxidative Conditions in Poplar Xylem. <i>Plant Cell</i> , 2014, 26, 3775-3791.	3.1	43
3	Metabolomics-assisted refinement of the pathways of steroidal glycoalkaloid biosynthesis in the tomato clade. <i>Journal of Integrative Plant Biology</i> , 2014, 56, 864-875.	4.1	60
4	Using metabolomic approaches to explore chemical diversity in rice. <i>Molecular Plant</i> , 2014, , .	3.9	3
5	Boosting Sensitivity in Liquid Chromatography- ⁴ Fourier Transform Ion Cyclotron Resonance- ⁵ Tandem Mass Spectrometry for Product Ion Analysis of Monoterpene Indole Alkaloids. <i>Frontiers in Plant Science</i> , 2015, 6, 1127.	1.7	9
6	Using Metabolomic Approaches to Explore Chemical Diversity in Rice. <i>Molecular Plant</i> , 2015, 8, 58-67.	3.9	119
7	Integrated metabolomics for abiotic stress responses in plants. <i>Current Opinion in Plant Biology</i> , 2015, 24, 10-16.	3.5	319
8	Introduction of chemically labile substructures into <i>Arabidopsis</i> lignin through the use of LigD, the Cl ⁻ -dependent hydrogenase from <i>Sphingobium</i> sp. strain <i>scp>SYK</i> . <i>Plant Biotechnology Journal</i> , 2015, 13, 821-832.	4.1	45
9	Small Glycosylated Lignin Oligomers Are Stored in Arabidopsis Leaf Vacuoles. <i>Plant Cell</i> , 2015, 27, 695-710.	3.1	90
10	Solutions for Low and High Accuracy Mass Spectrometric Data Matching: A Data-Driven Annotation Strategy in Nontargeted Metabolomics. <i>Analytical Chemistry</i> , 2015, 87, 8917-8924.	3.2	41
11	Using fragmentation trees and mass spectral trees for identifying unknown compounds in metabolomics. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 69, 52-61.	5.8	110
12	Syringyl lignin production in conifers: Proof of concept in a Pine tracheary element system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6218-6223.	3.3	98
13	Searching molecular structure databases with tandem mass spectra using CSI:FingerID. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12580-12585.	3.3	695
14	MINEs: open access databases of computationally predicted enzyme promiscuity products for untargeted metabolomics. <i>Journal of Cheminformatics</i> , 2015, 7, 44.	2.8	172
15	Maize Tricin-Oligolignol Metabolites and their Implications for Monocot Lignification. <i>Plant Physiology</i> , 2016, 171, pp.02012.2016.	2.3	55
16	Plant Metabolomics and Strategies. , 2016, , 399-406.		0
17	Metabolic pathway reconstruction strategies for central metabolism and natural product biosynthesis. <i>Biophysics and Physicobiology</i> , 2016, 13, 195-205.	0.5	16
18	Flavonols Mediate Root Phototropism and Growth through Regulation of Proliferation-to-Differentiation Transition. <i>Plant Cell</i> , 2016, 28, 1372-1387.	3.1	147

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19	Fragmentation trees reloaded. <i>Journal of Cheminformatics</i> , 2016, 8, 5.	2.8	138
20	Expression and functional analyses of a putative phenylcoumaran benzylic ether reductase in <i>Arabidopsis thaliana</i> . <i>Plant Cell Reports</i> , 2016, 35, 513-526.	2.8	16
21	Mining molecular structure databases: Identification of small molecules based on fragmentation mass spectrometry data. <i>Mass Spectrometry Reviews</i> , 2017, 36, 624-633.	2.8	75
22	iMet: A Network-Based Computational Tool To Assist in the Annotation of Metabolites from Tandem Mass Spectra. <i>Analytical Chemistry</i> , 2017, 89, 3474-3482.	3.2	46
23	A Key Role for Apoplastic H ₂ O ₂ in Norway Spruce Phenolic Metabolism. <i>Plant Physiology</i> , 2017, 174, 1449-1475.	2.3	46
24	Characterization of poplar metabotypes via mass difference enrichment analysis. <i>Plant, Cell and Environment</i> , 2017, 40, 1057-1073.	2.8	47
25	Phenylpropanoid profiling reveals a class of hydroxycinnamoyl glucaric acid conjugates in <i>Isatis tinctoria</i> leaves. <i>Phytochemistry</i> , 2017, 144, 127-140.	1.4	30
26	Different Routes for Conifer- and Sinapaldehyde and Higher Saccharification upon Deficiency in the Dehydrogenase CAD1. <i>Plant Physiology</i> , 2017, 175, 1018-1039.	2.3	99
27	ACCERBATIN, a small molecule at the intersection of auxin and reactive oxygen species homeostasis with herbicidal properties. <i>Journal of Experimental Botany</i> , 2017, 68, 4185-4203.	2.4	7
28	Degradation of lignin β -aryl ether units in <i>Arabidopsis thaliana</i> expressing <i>LigD</i> , <i>LigF</i> and <i>LigG</i> from <i>Sphingomonas paucimobilis</i> Δ SYK6. <i>Plant Biotechnology Journal</i> , 2017, 15, 581-593.	4.1	29
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31	Contrasting cadmium resistance strategies in two metallicolous populations of <i>Arabidopsis halleri</i> . <i>New Phytologist</i> , 2018, 218, 283-297.	3.5	88
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33	Profiling of phenolic compounds and antioxidant properties of European varieties and cultivars of <i>Vicia faba</i> L. pods. <i>Phytochemistry</i> , 2018, 152, 223-229.	1.4	53
34	The Integration of Metabolomics and Next-Generation Sequencing Data to Elucidate the Pathways of Natural Product Metabolism in Medicinal Plants. <i>Planta Medica</i> , 2018, 84, 855-873.	0.7	47
35	Targeted LC-MS Analysis for Plant Secondary Metabolites. <i>Methods in Molecular Biology</i> , 2018, 1778, 171-181.	0.4	33
36	Metabotype variation in a field population of tansy plants influences aphid host selection. <i>Plant, Cell and Environment</i> , 2018, 41, 2791-2805.	2.8	30

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37	Dehydration process influences the phenolic profile, antioxidant and antimicrobial properties of <i>Galium aparine</i> L.. <i>Industrial Crops and Products</i> , 2018, 120, 97-103.	2.5	9
38	Polyphenolic Characterization, Antioxidant, and Cytotoxic Activities of <i>Mangifera indica</i> Cultivars from Costa Rica. <i>Foods</i> , 2019, 8, 384.	1.9	32
39	Mass differences in metabolome analyses of untargeted direct infusion ultra-high resolution MS data. , 2019, , 357-405.		6
40	Introducing curcumin biosynthesis in <i>Arabidopsis</i> enhances lignocellulosic biomass processing. <i>Nature Plants</i> , 2019, 5, 225-237.	4.7	50
41	Habituated <i>Moringa oleifera</i> callus retains metabolic responsiveness to external plant growth regulators. <i>Plant Cell, Tissue and Organ Culture</i> , 2019, 137, 249-264.	1.2	5
42	The Structure and Function of Major Plant Metabolite Modifications. <i>Molecular Plant</i> , 2019, 12, 899-919.	3.9	250
43	Hydroxystilbene Glucosides Are Incorporated into Norway Spruce Bark Lignin. <i>Plant Physiology</i> , 2019, 180, 1310-1321.	2.3	43
44	A cheminformatics approach to characterize metabolomes in stable-isotope-labeled organisms. <i>Nature Methods</i> , 2019, 16, 295-298.	9.0	194
45	Comprehensive mass spectrometry-guided phenotyping of plant specialized metabolites reveals metabolic diversity in the cosmopolitan plant family Rhamnaceae. <i>Plant Journal</i> , 2019, 98, 1134-1144.	2.8	59
46	A metabolomics characterisation of natural variation in the resistance of cassava to whitefly. <i>BMC Plant Biology</i> , 2019, 19, 518.	1.6	26
47	Exploring novel secondary metabolites from natural products using pre-processed mass spectral data. <i>Scientific Reports</i> , 2019, 9, 17430.	1.6	7
48	Multi-tissue integration of transcriptomic and specialized metabolite profiling provides tools for assessing the common bean (<i>Phaseolus vulgaris</i>) metabolome. <i>Plant Journal</i> , 2019, 97, 1132-1153.	2.8	33
49	Comparative Metabolomics Approach Towards Understanding Chemical Variation in Rice Under Abiotic Stress. , 2019, , 537-550.		9
50	Structure/reaction directed analysis for LC-MS based untargeted analysis. <i>Analytica Chimica Acta</i> , 2019, 1050, 16-24.	2.6	25
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52	Understanding the function and regulation of plant secondary metabolism through metabolomics approaches. <i>Theoretical and Experimental Plant Physiology</i> , 2019, 31, 127-138.	1.1	11
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56	Higher dimensional metabolomics using stable isotope labeling for identifying the missing specialized metabolism in plants. <i>Current Opinion in Plant Biology</i> , 2020, 55, 84-92.	3.5	18
57	Network-based strategies in metabolomics data analysis and interpretation: from molecular networking to biological interpretation. <i>Expert Review of Proteomics</i> , 2020, 17, 243-255.	1.3	70
58	Specialized phenolic compounds in seeds: structures, functions, and regulations. <i>Plant Science</i> , 2020, 296, 110471.	1.7	62
60	An untargeted liquid chromatography–mass spectrometry–based workflow for the structural characterization of plant polyesters. <i>Plant Journal</i> , 2020, 102, 1323-1339.	2.8	6
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71	Two chemically distinct root lignin barriers control solute and water balance. <i>Nature Communications</i> , 2021, 12, 2320.	5.8	48
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