

Disruption of Mediator rescues the stunted growth of a mutant

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Phenolic Compounds and Expression of 4CL Genes in Silver Birch Clones and Pt4CL1a Lines. PLoS ONE, 2014, 9, e114434.	1.1	14
2	Mutation of the Inducible <i>ARABIDOPSIS THALIANA</i> CYTOCHROME P450 REDUCTASE2 Alters Lignin Composition and Improves Saccharification. Plant Physiology, 2014, 166, 1956-1971.	2.3	63
3	Tailoring lignin biosynthesis for efficient and sustainable biofuel production. Plant Biotechnology Journal, 2014, 12, 1154-1162.	4.1	21
4	Plant biotechnology for lignocellulosic biofuel production. Plant Biotechnology Journal, 2014, 12, 1174-1192.	4.1	96
5	The role of the secondary cell wall in plant resistance to pathogens. Frontiers in Plant Science, 2014, 5, 358.	1.7	455
6	Assessing the Metabolic Impact of Nitrogen Availability Using a Compartmentalized Maize Leaf Genome-Scale Model. Plant Physiology, 2014, 166, 1659-1674.	2.3	80
7	Development of a Clickable Designer Monolignol for Interrogation of Lignification in Plant Cell Walls. Bioconjugate Chemistry, 2014, 25, 2189-2196.	1.8	33
8	Re-constructing our models of cellulose and primary cell wall assembly. Current Opinion in Plant Biology, 2014, 22, 122-131.	3.5	362
9	Bioethanol from poplar: a commercially viable alternative to fossil fuel in the European Union. Biotechnology for Biofuels, 2014, 7, 113.	6.2	30
10	Systems and synthetic biology approaches to alter plant cell walls and reduce biomass recalcitrance. Plant Biotechnology Journal, 2014, 12, 1207-1216.	4.1	46
11	Modifying plants for biofuel and biomaterial production. Plant Biotechnology Journal, 2014, 12, 1246-1258.	4.1	82
12	Monolignol Ferulate Transferase Introduces Chemically Labile Linkages into the Lignin Backbone. Science, 2014, 344, 90-93.	6.0	337
13	Lignin Valorization: Improving Lignin Processing in the Biorefinery. Science, 2014, 344, 1246843.	6.0	2,994
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16	The Mediator complex subunits MED25/PFT1 and MED8 are required for transcriptional responses to changes in cell wall arabinose composition and glucose treatment in Arabidopsis thaliana. BMC Plant Biology, 2015, 15, 215.	1.6	21
17	Identifying the ionically bound cell wall and intracellular glycoside hydrolases in late growth stage Arabidopsis stems: implications for the genetic engineering of bioenergy crops. Frontiers in Plant Science, 2015, 6, 315.	1.7	14
18	Importance of Mediator complex in the regulation and integration of diverse signaling pathways in plants. Frontiers in Plant Science, 2015, 6, 757.	1.7	85

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19	Engineering of plant cell walls for enhanced biofuel production. <i>Current Opinion in Plant Biology</i> , 2015, 25, 151-161.	3.5	174
20	Probing long-range carrier-pair spin-spin interactions in a conjugated polymer by detuning of electrically detected spin beating. <i>Nature Communications</i> , 2015, 6, 6688.	5.8	38
21	Metabolic engineering of 2-phenylethanol pathway producing fragrance chemical and reducing lignin in <i>Arabidopsis</i> . <i>Plant Cell Reports</i> , 2015, 34, 1331-1342.	2.8	7
22	Identification of MEDIATOR16 as the <i>Arabidopsis</i> COBRA suppressor MONGOOSE1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 16048-16053.	3.3	37
23	<i>Arabidopsis</i> CBP1 Is a Novel Regulator of Transcription Initiation in Central Cell-Mediated Pollen Tube Guidance. <i>Plant Cell</i> , 2015, 27, 2880-2893.	3.1	54
24	Microbial Factories. , 2015, , .		14
25	Enhancing cellulose utilization for fuels and chemicals by genetic modification of plant cell wall architecture. <i>Current Opinion in Biotechnology</i> , 2015, 32, 104-112.	3.3	54
26	Supramolecular Interactions in Secondary Plant Cell Walls: Effect of Lignin Chemical Composition Revealed with the Molecular Theory of Solvation. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 206-211.	2.1	60
27	Introduction of chemically labile substructures into <i>Arabidopsis</i> lignin through the use of LigD, the Cl ⁻ dehydrogenase from <i>Sphingobium</i> sp. strain <i>SYK</i> . <i>Plant Biotechnology Journal</i> , 2015, 13, 821-832.	4.1	45
28	Using <i>Populus</i> as a lignocellulosic feedstock for bioethanol. <i>Biotechnology Journal</i> , 2015, 10, 510-524.	1.8	52
29	Alkaline Pretreatment of Switchgrass. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1479-1491.	3.2	94
30	Transcriptional networks governing plant metabolism. <i>Current Plant Biology</i> , 2015, 3-4, 56-64.	2.3	38
31	The synthesis and analysis of advanced lignin model polymers. <i>Green Chemistry</i> , 2015, 17, 4980-4990.	4.6	69
32	Loss of ferulate 5-hydroxylase leads to Mediator-dependent inhibition of soluble phenylpropanoid biosynthesis in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2015, 169, pp.00294.2015.	2.3	39
33	Biomass recalcitrance: a multi-scale, multi-factor, and conversion-specific property: Fig. 1.. <i>Journal of Experimental Botany</i> , 2015, 66, 4109-4118.	2.4	197
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35	The cell biology of lignification in higher plants. <i>Annals of Botany</i> , 2015, 115, 1053-1074.	1.4	505
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37	Conversion of plant materials into hydroxymethylfurfural using ionic liquids. <i>Environmental Chemistry Letters</i> , 2015, 13, 173-190.	8.3	29
38	Acidolysis of β -O-4 Aryl-Ether Bonds in Lignin Model Compounds: A Modeling and Experimental Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1339-1347.	3.2	45
39	Indole Glucosinolate Biosynthesis Limits Phenylpropanoid Accumulation in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2015, 27, 1529-1546.	3.1	100
40	Four isoforms of <i>Arabidopsis thaliana</i> 4-coumarate: CoA ligase (4CL) have overlapping yet distinct roles in phenylpropanoid metabolism. <i>Plant Physiology</i> , 2015, 169, pp.00838.2015.	2.3	163
41	Manipulation of Guaiacyl and Syringyl Monomer Biosynthesis in an <i>Arabidopsis</i> Cinnamyl Alcohol Dehydrogenase Mutant Results in Atypical Lignin Biosynthesis and Modified Cell Wall Structure. <i>Plant Cell</i> , 2015, 27, 2195-2209.	3.1	136
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48	Secondary Cell Walls: Biosynthesis, Patterned Deposition and Transcriptional Regulation. <i>Plant and Cell Physiology</i> , 2015, 56, 195-214.	1.5	360
49	Improving total saccharification yield of <i>Arabidopsis</i> plants by vessel-specific complementation of caffeoyl shikimate esterase (cse) mutants. <i>Biotechnology for Biofuels</i> , 2016, 9, 139.	6.2	63
50	Directed plant cell-wall accumulation of iron: embedding co-catalyst for efficient biomass conversion. <i>Biotechnology for Biofuels</i> , 2016, 9, 225.	6.2	12
51	<i>Burkholderia</i> phytofirmans Inoculation-Induced Changes on the Shoot Cell Anatomy and Iron Accumulation Reveal Novel Components of <i>Arabidopsis</i> -Endophyte Interaction that Can Benefit Downstream Biomass Deconstruction. <i>Frontiers in Plant Science</i> , 2016, 7, 24.	1.7	20
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59	50 years of Arabidopsis research: highlights and future directions. <i>New Phytologist</i> , 2016, 209, 921-944.	3.5	186
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94	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
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111	Genetic engineering of <i>Arabidopsis</i> to overproduce disinapoyl esters, potential lignin modification molecules. <i>Biotechnology for Biofuels</i> , 2017, 10, 40.	6.2	16
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113	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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123	Temperature dependent cellulase adsorption on lignin from sugarcane bagasse. <i>Bioresource Technology</i> , 2018, 252, 143-149.	4.8	37
124	Lignin modification in planta for valorization. <i>Phytochemistry Reviews</i> , 2018, 17, 1305-1327.	3.1	67
125	Chemicals from lignin: an interplay of lignocellulose fractionation, depolymerisation, and upgrading. <i>Chemical Society Reviews</i> , 2018, 47, 852-908.	18.7	1,708
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129	Overexpression of <i>SbMyb60</i> in <i>Sorghum bicolor</i> impacts both primary and secondary metabolism. <i>New Phytologist</i> , 2018, 217, 82-104.	3.5	42
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132	Stacking of a low-lignin trait with an increased guaiacyl and 5-hydroxyguaiacyl unit trait leads to additive and synergistic effects on saccharification efficiency in <i>Arabidopsis thaliana</i> . <i>Biotechnology for Biofuels</i> , 2018, 11, 257.	6.2	14
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137	Effect of alkaline lignin modification on cellulase-lignin interactions and enzymatic saccharification yield. <i>Biotechnology for Biofuels</i> , 2018, 11, 214.	6.2	78
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140	Functional Analysis of Cellulose Synthase <i>CesA4</i> and <i>CesA6</i> Genes in Switchgrass (<i>Panicum virgatum</i>) by Overexpression and RNAi-Mediated Gene Silencing. <i>Frontiers in Plant Science</i> , 2018, 9, 1114.	1.7	34
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142	Lignins: Biosynthesis and Biological Functions in Plants. <i>International Journal of Molecular Sciences</i> , 2018, 19, 335.	1.8	757
143	Determination of Lignin Monomer Contents in Rice Straw Using Visible and Near-infrared Reflectance Spectroscopy. <i>BioResources</i> , 2018, 13, .	0.5	5
144	Downregulation of <i>COUMAROYL ESTER 3-HYDROXYLASE</i> in rice leads to altered cell wall structures and improves biomass saccharification. <i>Plant Journal</i> , 2018, 95, 796-811.	2.8	65
145	Raw plant-based biorefinery: A new paradigm shift towards biotechnological approach to sustainable manufacturing of HMF. <i>Biotechnology Advances</i> , 2019, 37, 107422.	6.0	35
146	A Molecular Blueprint of Lignin Repression. <i>Trends in Plant Science</i> , 2019, 24, 1052-1064.	4.3	25

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148	Biocatalysis in ionic liquids for lignin valorization: Opportunities and recent developments. <i>Biotechnology Advances</i> , 2019, 37, 107418.	6.0	36
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