

An essential role of caffeoyl shikimate esterase in *monotropa truncatula*

Plant Journal

86, 363-375

DOI: [10.1111/tbj.13177](https://doi.org/10.1111/tbj.13177)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Improving total saccharification yield of Arabidopsis plants by vessel-specific complementation of caffeoyl shikimate esterase (cse) mutants. <i>Biotechnology for Biofuels</i> , 2016, 9, 139.	6.2	63
2	Active Sites of Reduced Epidermal Fluorescence1 (REF1) Isoforms Contain Amino Acid Substitutions That Are Different between Monocots and Dicots. <i>PLoS ONE</i> , 2016, 11, e0165867.	1.1	7
3	Developing Pericarp of Maize: A Model to Study Arabinoxylan Synthesis and Feruloylation. <i>Frontiers in Plant Science</i> , 2016, 7, 1476.	1.7	40
4	Building the wall: recent advances in understanding lignin metabolism in grasses. <i>Acta Physiologiae Plantarum</i> , 2016, 38, 1.	1.0	29
5	Characterization and purification of a bacterial chlorogenic acid esterase detected during the extraction of chlorogenic acid from arbuscular mycorrhizal tomato roots. <i>Plant Physiology and Biochemistry</i> , 2016, 109, 308-318.	2.8	6
6	Insights into temperature modulation of the <i>Eucalyptus globulus</i> and <i>Eucalyptus grandis</i> antioxidant and lignification subproteomes. <i>Phytochemistry</i> , 2017, 137, 15-23.	1.4	10
7	Expression atlas and comparative coexpression network analyses reveal important genes involved in the formation of lignified cell wall in <i>Brachypodium distachyon</i> . <i>New Phytologist</i> , 2017, 215, 1009-1025.	3.5	108
8	Silencing <i>CHALCONE SYNTHASE</i> in Maize Impedes the Incorporation of Tricin into Lignin and Increases Lignin Content. <i>Plant Physiology</i> , 2017, 173, 998-1016.	2.3	84
9	Characterization and Elimination of Undesirable Protein Residues in Plant Cell Wall Materials for Enhancing Lignin Analysis by Solution-State Nuclear Magnetic Resonance Spectroscopy. <i>Biomacromolecules</i> , 2017, 18, 4184-4195.	2.6	94
10	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
11	Silencing <i>CAFFEOYL SHIKIMATE ESTERASE</i> Affects Lignification and Improves Saccharification in Poplar. <i>Plant Physiology</i> , 2017, 175, 1040-1057.	2.3	90
13	Artificial MicroRNAs Promote High-Level Production of Biomolecules Through Metabolic Engineering of Phenylpropanoid Pathway. <i>Critical Reviews in Plant Sciences</i> , 2017, 36, 353-366.	2.7	6
14	Improving wood properties for wood utilization through multi-omics integration in lignin biosynthesis. <i>Nature Communications</i> , 2018, 9, 1579.	5.8	162
15	Plant cell wall sugars: sweeteners for a bio-based economy. <i>Physiologia Plantarum</i> , 2018, 164, 27-44.	2.6	14
16	QTL mapping and GWAS reveal candidate genes controlling capsaicinoid content in <i>Capsicum</i> . <i>Plant Biotechnology Journal</i> , 2018, 16, 1546-1558.	4.1	123
17	Lignocellulosic Feedstock Improvement for Biofuel Production Through Conventional Breeding and Biotechnology. , 2018, , 107-140.		3
18	Lignin modification in planta for valorization. <i>Phytochemistry Reviews</i> , 2018, 17, 1305-1327.	3.1	67
19	Lignin and cellulose synthesis and antioxidative defense mechanisms are affected by light quality in <i>Brachypodium distachyon</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 2018, 133, 1-14.	1.2	20

#	ARTICLE	IF	CITATIONS
20	A dynamic model of lignin biosynthesis in <i>Brachypodium distachyon</i> . <i>Biotechnology for Biofuels</i> , 2018, 11, 253.	6.2	11
21	Regulation of Lignin Biosynthesis and Its Role in Growth-Defense Tradeoffs. <i>Frontiers in Plant Science</i> , 2018, 9, 1427.	1.7	231
22	Model Legumes: Functional Genomics Tools in <i>Medicago truncatula</i> . <i>Methods in Molecular Biology</i> , 2018, 1822, 11-37.	0.4	10
23	Functional Genomics in the Study of Metabolic Pathways in <i>Medicago truncatula</i> : An Overview. <i>Methods in Molecular Biology</i> , 2018, 1822, 315-337.	0.4	9
24	Lignins: Biosynthesis and Biological Functions in Plants. <i>International Journal of Molecular Sciences</i> , 2018, 19, 335.	1.8	757
25	A high-quality genome of <i>Eragrostis curvula</i> grass provides insights into Poaceae evolution and supports new strategies to enhance forage quality. <i>Scientific Reports</i> , 2019, 9, 10250.	1.6	27
26	Should I stay or should I go: are chlorogenic acids mobilized towards lignin biosynthesis?. <i>Phytochemistry</i> , 2019, 166, 112063.	1.4	74
27	The lignin toolbox of the model grass <i>Setaria viridis</i> . <i>Plant Molecular Biology</i> , 2019, 101, 235-255.	2.0	28
28	Genomic resources for energy cane breeding in the post genomics era. <i>Computational and Structural Biotechnology Journal</i> , 2019, 17, 1404-1414.	1.9	38
29	Integrative Analysis of the Core Fruit Lignification Toolbox in Pear Reveals Targets for Fruit Quality Bioengineering. <i>Biomolecules</i> , 2019, 9, 504.	1.8	28
30	Linking phenylpropanoid metabolism, lignin deposition, and plant growth inhibition. <i>Current Opinion in Biotechnology</i> , 2019, 56, 202-208.	3.3	100
31	Does long-term cadmium exposure influence the composition of pectic polysaccharides in the cell wall of <i>Medicago sativa</i> stems?. <i>BMC Plant Biology</i> , 2019, 19, 271.	1.6	56
32	4-Coumarate 3-hydroxylase in the lignin biosynthesis pathway is a cytosolic ascorbate peroxidase. <i>Nature Communications</i> , 2019, 10, 1994.	5.8	171
33	Significant influence of lignin on axial elastic modulus of poplar wood at low microfibril angles under wet conditions. <i>Journal of Experimental Botany</i> , 2019, 70, 4039-4047.	2.4	29
34	Lignin engineering to improve saccharification and digestibility in grasses. <i>Current Opinion in Biotechnology</i> , 2019, 56, 223-229.	3.3	56
35	Biosynthesis and Regulation of Secondary Cell Wall. <i>Progress in Botany Fortschritte Der Botanik</i> , 2019, , 189-226.	0.1	1
36	Deposition of lignin in four species of <i>Saccharum</i> . <i>Scientific Reports</i> , 2019, 9, 5877.	1.6	41
37	Ectopic Defense Gene Expression Is Associated with Growth Defects in <i>Medicago truncatula</i> Lignin Pathway Mutants. <i>Plant Physiology</i> , 2019, 181, 63-84.	2.3	27

#	ARTICLE	IF	CITATIONS
38	Lignin biosynthesis: old roads revisited and new roads explored. <i>Open Biology</i> , 2019, 9, 190215.	1.5	136
39	Functional Characteristics of Caffeoyl Shikimate Esterase in <i>Larix Kaempferi</i> and Monolignol Biosynthesis in Gymnosperms. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6071.	1.8	13
40	Secondary cell wall biosynthesis. <i>New Phytologist</i> , 2019, 221, 1703-1723.	3.5	185
41	Root proteome and metabolome reveal a high nutritional dependency of aluminium in <i>Qualea grandiflora</i> Mart. (Vochysiaceae). <i>Plant and Soil</i> , 2020, 446, 125-143.	1.8	13
42	Genetic, transcriptional, and regulatory landscape of monolignol biosynthesis pathway in <i>Miscanthus giganteus</i> . <i>Biotechnology for Biofuels</i> , 2020, 13, 179.	6.2	11
43	Xylem systems genetics analysis reveals a key regulator of lignin biosynthesis in <i>Populus deltoides</i> . <i>Genome Research</i> , 2020, 30, 1131-1143.	2.4	18
44	Integrated Analysis of the Transcriptome and Metabolome of <i>Cecropia obtusifolia</i> : A Plant with High Chlorogenic Acid Content Traditionally Used to Treat Diabetes Mellitus. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7572.	1.8	10
45	An importin β -like protein mediates lignin modification-induced dwarfism in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2020, 102, 1281-1293.	2.8	23
46	Grass secondary cell walls, <i>Brachypodium distachyon</i> as a model for discovery. <i>New Phytologist</i> , 2020, 227, 1649-1667.	3.5	40
47	The known unknowns in lignin biosynthesis and its engineering to improve lignocellulosic saccharification efficiency. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 2497-2515.	2.9	8
48	Characterization and functional analysis of the Hydroxycinnamoyl-CoA: shikimate hydroxycinnamoyl transferase (HCT) gene family in poplar. <i>PeerJ</i> , 2021, 9, e10741.	0.9	8
49	Function of the HYDROXYCINNAMOYL-CoA:SHIKIMATE HYDROXYCINNAMOYL TRANSFERASE is evolutionarily conserved in embryophytes. <i>Plant Cell</i> , 2021, 33, 1472-1491.	3.1	45
50	Targeting hydroxycinnamoyl CoA: shikimate hydroxycinnamoyl transferase for lignin modification in <i>Brachypodium distachyon</i> . <i>Biotechnology for Biofuels</i> , 2021, 14, 50.	6.2	17
52	Growth-defense tradeoffs and yield loss in plants with engineered cell walls. <i>New Phytologist</i> , 2021, 231, 60-74.	3.5	41
53	PbCSE1 promotes lignification during stone cell development in pear (<i>Pyrus bretschneideri</i>) fruit. <i>Scientific Reports</i> , 2021, 11, 9450.	1.6	10
54	Caffeoylquinic acids: chemistry, biosynthesis, occurrence, analytical challenges, and bioactivity. <i>Plant Journal</i> , 2021, 107, 1299-1319.	2.8	87
55	The evolution of the phenylpropanoid pathway entailed pronounced radiations and divergences of enzyme families. <i>Plant Journal</i> , 2021, 107, 975-1002.	2.8	67
56	Phylogenetic Occurrence of the Phenylpropanoid Pathway and Lignin Biosynthesis in Plants. <i>Frontiers in Plant Science</i> , 2021, 12, 704697.	1.7	49

#	ARTICLE	IF	CITATIONS
57	Genome-wide analysis of the lignin toolbox for <i>morus</i> and the roles of lignin related genes in response to zinc stress. <i>PeerJ</i> , 2021, 9, e11964.	0.9	10
58	CRISPR-Cas9 editing of CAFFEOYL SHIKIMATE ESTERASE 1 and 2 shows their importance and partial redundancy in lignification in <i>Populus tremula</i> – <i>P. alba</i> . <i>Plant Biotechnology Journal</i> , 2021, 19, 2221-2234.	4.1	29
59	CRISPR-Knockout of CSE Gene Improves Saccharification Efficiency by Reducing Lignin Content in Hybrid Poplar. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9750.	1.8	26
60	Behind the Scenes: The Impact of Bioactive Phenylpropanoids on the Growth Phenotypes of Arabidopsis Lignin Mutants. <i>Frontiers in Plant Science</i> , 2021, 12, 734070.	1.7	15
61	Engineering Alfalfa to Produce 2-O-Caffeoyl-L-Malate (Phaseolic Acid) for Preventing Post-harvest Protein Loss via Oxidation by Polyphenol Oxidase. <i>Frontiers in Plant Science</i> , 2020, 11, 610399.	1.7	3
62	Genome-wide analysis of general phenylpropanoid and monolignol-specific metabolism genes in sugarcane. <i>Functional and Integrative Genomics</i> , 2021, 21, 73-99.	1.4	10
63	4-Coumarate:coenzyme A ligase isoform 3 from <i>Piper nigrum</i> (Pn4CL3) catalyzes the CoA thioester formation of 3,4-methylenedioxycinnamic and piperic acids. <i>Biochemical Journal</i> , 2020, 477, 61-74.	1.7	16
64	Transcriptome Profiling of the Elongating Internode of Cotton (<i>Gossypium hirsutum</i> L.) Seedlings in Response to Mepiquat Chloride. <i>Frontiers in Plant Science</i> , 2019, 10, 1751.	1.7	19
66	Rerouting of the lignin biosynthetic pathway by inhibition of cytosolic shikimate recycling in transgenic hybrid aspen. <i>Plant Journal</i> , 2022, 110, 358-376.	2.8	10
67	Transcriptome and metabolite profiling to identify genes associated with rhizome lignification and the function of ZoCSE in ginger (<i>Zingiber officinale</i>). <i>Functional Plant Biology</i> , 2022, , .	1.1	1
68	Synthesis of hydroxycinnamoyl shikimates and their role in monolignol biosynthesis. <i>Holzforschung</i> , 2022, 76, 133-144.	0.9	3
69	Systematic Analysis and Biochemical Characterization of the Caffeoyl Shikimate Esterase Gene Family in Poplar. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13366.	1.8	7
70	Spatio-temporal regulation of lignification. <i>Advances in Botanical Research</i> , 2022, , 271-316.	0.5	6
85	The metabolic and proteomic repertoires of periderm tissue in skin of the reticulated Sikkim cucumber fruit. <i>Horticulture Research</i> , 2022, 9, .	2.9	10
87	Transcriptome Mining Provides Insights into Cell Wall Metabolism and Fiber Lignification in Agave tequilana Weber. <i>Plants</i> , 2022, 11, 1496.	1.6	2
88	Proteomic and metabolic disturbances in lignin-modified <i>Brachypodium distachyon</i> . <i>Plant Cell</i> , 2022, 34, 3339-3363.	3.1	14
89	Spatio-Temporal Modification of Lignin Biosynthesis in Plants: A Promising Strategy for Lignocellulose Improvement and Lignin Valorization. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	2.0	8
90	Lignin biosynthesis regulated by CsCSE1 is required for <i>Cucumis sativus</i> defence to <i>Podosphaera xanthii</i> . <i>Plant Physiology and Biochemistry</i> , 2022, 186, 88-98.	2.8	11

#	ARTICLE	IF	CITATIONS
91	Microbial Production of Caffeic Acid. , 2022, , 1-34.		0
92	Multi-omic characterization of bifunctional peroxidase 4-coumarate 3-hydroxylase knockdown in <i>Brachypodium distachyon</i> provides insights into lignin modification-associated pleiotropic effects. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	0
93	Lignin engineering in forest trees: From gene discovery to field trials. <i>Plant Communications</i> , 2022, 3, 100465.	3.6	18
94	Probable Biosynthetic Pathways of Silymarin Precursors. <i>Korean Journal of Medicinal Crop Science</i> , 2022, 30, 347-356.	0.1	0
95	A Chromosome-Level Reference Genome of African Oil Palm Provides Insights into Its Divergence and Stress Adaptation. <i>Genomics, Proteomics and Bioinformatics</i> , 2023, 21, 440-454.	3.0	3
96	Downregulation of barley ferulate 5-hydroxylase dramatically alters straw lignin structure without impact on mechanical properties. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	6
97	Plant Cell Factory for Production of Biomolecules. , 2023, , 253-272.		0
98	Transcriptome analysis of fiber development under high-temperature stress in flax (<i>Linum</i>) Tj ETQq1 1 0.784314 rgBTj/Overlock 10 Tf 50	2.5	2
99	Altered profile of floral volatiles and lignin content by down-regulation of Caffeoyl Shikimate Esterase in <i>Petunia</i> . <i>BMC Plant Biology</i> , 2023, 23, .	1.6	2