CITATION REPORT List of articles citing

Structure of chalcone synthase and the molecular basis of plant polyketide biosynthesis

DOI: 10.1038/11553 Nature Structural Biology, 1999, 6, 775-84.

Source: https://exaly.com/paper-pdf/30407079/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
533	Flavonoids and isoflavonoids - a gold mine for metabolic engineering. 1999 , 4, 394-400		548
532	Cross-reaction of chalcone synthase and stilbene synthase overexpressed in Escherichia coli. 1999 , 460, 457-61		58
531	Specificities of functionally expressed chalcone and acridone synthases from Ruta graveolens. 2000 , 267, 6552-9		36
530	Structural control of polyketide formation in plant-specific polyketide synthases. 2000 , 7, 919-30		207
529	The 1.8 A crystal structure and active-site architecture of beta-ketoacyl-acyl carrier protein synthase III (FabH) from escherichia coli. 2000 , 8, 185-95		188
528	The Family of Chalcone Synthase-Related Proteins: Functional Diversity and Evolution. 2000 , 34, 55-89		24
527	Evidence for catalytic cysteine-histidine dyad in chalcone synthase. 2000 , 275, 725-30		36
526	Enzymatic formation of unnatural aromatic polyketides by chalcone synthase. 2000 , 279, 190-5		62
525	An allelic series for the chalcone synthase locus in Arabidopsis. 2000 , 255, 127-38		50
524	Mechanism of chalcone synthase. pKa of the catalytic cysteine and the role of the conserved histidine in a plant polyketide synthase. 2000 , 275, 39640-6		108
523	Biochemistry of Polyketide Synthases. 2001 , 341-372		2
522	The crystal structure of beta-ketoacyl-acyl carrier protein synthase II from Synechocystis sp. at 1.54 A resolution and its relationship to other condensing enzymes. 2001 , 305, 491-503		56
521	Refined structures of beta-ketoacyl-acyl carrier protein synthase III. 2001 , 307, 341-56		133
520	Flavonoid biosynthesis. A colorful model for genetics, biochemistry, cell biology, and biotechnology. 2001 , 126, 485-93		2321
519	Active-site residues of a plant membrane-bound fatty acid elongase beta-ketoacyl-CoA synthase, FAE1 KCS. 2001 , 1530, 77-85		59
518	Mutations in the fatty acid elongation 1 gene are associated with a loss of beta-ketoacyl-CoA synthase activity in low erucic acid rapeseed. 2001 , 492, 107-11		68
517	Transformation of acridone synthase to chalcone synthase. 2001 , 508, 413-7		42

(2002-2001)

516 Enzymes: Coenzyme A dependent. **2001**,

Chapter Seven Properties and metabolic engineering of alfalfa phenylpropanoid pathway O-methyltransferases. 2001, 131-154 Diverse chalcone synthase superfamily enzymes from the most primitive vascular plant, Psilotum number of chalcone synthase superfamily enzymes from the most primitive vascular plant, Psilotum number 2001, 214, 75-84 Alteration of a single amino acid changes the substrate specificity of dihydroflavonol 4-reductase. 143 Localization of flavonoid enzymes in Arabidopsis roots. 2001, 27, 37-48 149 Benzalacetone synthase. A novel polyketide synthase that plays a crucial role in the biosynthesis of phenylbutanones in Rheum palmatum. 2001, 268, 3354-9 Novel polyketides synthesized with a higher plant stilbene synthase. 2001, 268, 3759-66 Novel polyketides synthesized with a higher plant stilbene synthase. 2001, 268, 3759-66 Discovery of a new bacterial polyketide biosynthetic pathway. 2001, 2, 35-8 Molecular and biochemical characterization of three aromatic polyketide synthase genes from Rubus idaeus. 2001, 46, 1-15 Structure and mechanism of chalcone synthase-like polyketide synthases. 2001, 27, 393-8 41 Structures of beta-ketoacyl-acyl carrier protein synthase I complexed with fatty acids elucidate its catalytic machinery. 2001, 9, 233-43 Structures of beta-ketoacyl-acyl carrier protein synthase I complexed with fatty acids elucidate its catalytic machinery. 2001, 9, 233-43 Structures of synthase in glycopestide biosynthesis: the biosynthesis of the non-proteinogenic amino acid (S)-3,5-dihydroxyphenylglycine. 2001, 27, 38370-7 502 Biosynthesis of polyketides in heterologous hosts. 2001, 65, 106-18 201 Multidrug pump inhibitors uncover remarkable activity of plant antimicrobials. 2002, 46, 3133-41 356 Properties and substrate specificity of RppA, a chalcone synthase-related polyketide synthase in Streptomyces griseus. 2002, 277, 4628-35 73 499 actimate of the substrate specificity of RppA, a chalcone synthase-related polyketide synthase in Streptomyces griseus. 2002, 277, 4			
Alteration of a single amino acid changes the substrate specificity of dihydroflavonol 4-reductase. Alteration of a single amino acid changes the substrate specificity of dihydroflavonol 4-reductase. Localization of flavonoid enzymes in Arabidopsis roots. 2001, 27, 37-48 Localization of flavonoid enzymes in Arabidopsis roots. 2001, 27, 37-48 Localization of flavonoid enzymes in Arabidopsis roots. 2001, 27, 37-48 Localization of flavonoid enzymes in Arabidopsis roots. 2001, 27, 37-48 Localization of flavonoid enzymes in Arabidopsis roots. 2001, 27, 37-48 Localization of flavonoid enzymes in Arabidopsis roots. 2001, 27, 37-48 Localization of flavonoid enzymes in Arabidopsis roots. 2001, 27, 37-48 Localization of flavonoid enzymes in Arabidopsis roots. 2001, 27, 37-48 Localization of flavonoid enzymes in Arabidopsis roots. 2001, 27, 37-48 Localization of flavonoid enzymes in Arabidopsis roots. 2001, 268, 3759-66 61 Novel polyketides synthasis of polyketide biosynthetic pathway. 2001, 2, 35-8 77 Molecular and biochemical characterization of three aromatic polyketide synthase genes from Rubus idaeus. 2001, 46, 1-15 Structure and mechanism of chalcone synthase-like polyketide synthases. 2001, 27, 393-8 41 Structures of beta-ketoacyl-acyl carrier protein synthase I complexed with fatty acids elucidate its catalytic machinery. 2001, 9, 233-43 Glycopeptide antibiotic biosynthesis: enzymatic assembly of the dedicated amino acid monomer (S)-3,5-dihydroxyphenylglycine. 2001, 98, 14901-6 Solvential polyketide synthase in glycopeptide biosynthesis the biosynthesis of the non-proteinogenic amino acid (S)-3,5-dihydroxyphenylglycine. 2001, 276, 38370-7 Biosynthesis of polyketides in heterologous hosts. 2001, 65, 106-18 Multidrug pump inhibitors uncover remarkable activity of plant antimicrobials. 2002, 46, 3133-41 366 Properties and substrate specificity of RppA, a chalcone synthase-related polyketide synthase in Streptomyces griseus. 2002, 277, 4628-35	515		1
Localization of Flavonoid enzymes in Arabidopsis roots. 2001, 27, 37-48 Localization of Flavonoid enzymes in Arabidopsis roots. 2001, 27, 37-48 Localization of Flavonoid enzymes in Arabidopsis roots. 2001, 27, 37-48 Localization of Flavonoid enzymes in Arabidopsis roots. 2001, 27, 37-48 Localization of Flavonoid enzymes in Arabidopsis roots. 2001, 27, 37-48 Localization of Flavonoid enzymes in Arabidopsis roots. 2001, 27, 37-48 Localization of Flavonoid enzymes in Arabidopsis roots. 2001, 27, 37-48 Localization of Flavonoid enzymes in Arabidopsis roots. 2001, 26, 375-9-66 Localization of Flavonoid enzymes in Arabidopsis roots. 2001, 268, 3759-66 Localization of Flavonoid enzymes in Arabidopsis roots. 2001, 268, 3759-66 Localization of Flavonoid enzymes in Arabidopsis roots. 2001, 268, 3759-66 Localization of Flavonoid enzymes in Arabidopsis roots. 2001, 27, 145-8 Phytochemistry in the genomics and post-genomics eras. 2001, 57, 145-8 Molecular and biochemical characterization of three aromatic polyketide synthase genes from Rubus idaeus. 2001, 46, 1-15 Localization of the enometric polyketide synthase genes from Rubus idaeus. 2001, 46, 1-15 Localization of three aromatic polyketide synthase genes from Rubus idaeus. 2001, 27, 393-8 Localization of three aromatic polyketide synthase genes from Rubus idaeus. 2001, 27, 393-8 Localization of three aromatic polyketide synthase genes from Rubus idaeus. 2001, 27, 393-8 Localization of three aromatic polyketide synthase genes from Rubus idaeus. 2001, 27, 393-8 Localization of three aromatic polyketide synthase in glycopeptide biosynthesis: the biosynthesis of the non-proteinogenic amino acid (S)-3,5-dihydroxyphenylglycine. 2001, 98, 14901-6 Localization of three aromatic polyketide synthase in Streptomyces griseus. 2002, 277, 4628-35 Localization of Flavonoid Rubus in Rubus enzymes are polyketide synthase in Streptomyces griseus. 2002, 277, 4628-35 Localization of Flavonoid Rubus enzymes arcucial role in the biosynthesis of the non-proteinogenic ani	514		53
Benzalacetone synthase. A novel polyketide synthase that plays a crucial role in the biosynthesis of phenylbutanones in Rheum palmatum. 2001, 268, 3354-9 Novel polyketides synthesized with a higher plant stilbene synthase. 2001, 268, 3759-66 61 Novel polyketides synthesized with a higher plant stilbene synthase. 2001, 268, 3759-66 61 Phytochemistry in the genomics and post-genomics eras. 2001, 57, 145-8 9 Discovery of a new bacterial polyketide biosynthetic pathway. 2001, 2, 35-8 77 Molecular and biochemical characterization of three aromatic polyketide synthase genes from Rubus idaeus. 2001, 46, 1-15 Structure and mechanism of chalcone synthase-like polyketide synthases. 2001, 27, 393-8 41 Structures of beta-ketoacyl-acyl carrier protein synthase I complexed with fatty acids elucidate its catalytic machinery. 2001, 9, 233-43 Glycopeptide antibiotic biosynthesis: enzymatic assembly of the dedicated amino acid monomer (S)-3,5-dihydroxyphenylglycine. 2001, 98, 14901-6 A polyketide synthase in glycopeptide biosynthesis: the biosynthesis of the non-proteinogenic amino acid (S)-3,5-dihydroxyphenylglycine. 2001, 276, 38370-7 117 502 Biosynthesis of polyketides in heterologous hosts. 2001, 65, 106-18 201 Multidrug pump inhibitors uncover remarkable activity of plant antimicrobials. 2002, 46, 3133-41 336 Properties and substrate specificity of RppA, a chalcone synthase-related polyketide synthase in Streptomyces griseus. 2002, 277, 4628-35 A stilbene synthase from Japanese red pine (Pinus densiflora): implications for phytoalexin	513		143
phenylbutanones in Rheum palmatum. 2001, 268, 3354-9 Novel polyketides synthesized with a higher plant stilbene synthase. 2001, 268, 3759-66 61 509 Phytochemistry in the genomics and post-genomics eras. 2001, 57, 145-8 9 508 Discovery of a new bacterial polyketide biosynthetic pathway. 2001, 2, 35-8 77 507 Molecular and biochemical characterization of three aromatic polyketide synthase genes from Rubus idaeus. 2001, 46, 1-15 506 Structure and mechanism of chalcone synthase-like polyketide synthases. 2001, 27, 393-8 41 505 Structures of beta-ketoacyl-acyl carrier protein synthase I complexed with fatty acids elucidate its catalytic machinery. 2001, 9, 233-43 504 Glycopeptide antibiotic biosynthesis: enzymatic assembly of the dedicated amino acid monomer (S)-3,5-dihydroxyphenylglycine. 2001, 98, 14901-6 503 A polyketide synthase in glycopeptide biosynthesis: the biosynthesis of the non-proteinogenic amino acid (S)-3,5-dihydroxyphenylglycine. 2001, 276, 38370-7 117 502 Biosynthesis of polyketides in heterologous hosts. 2001, 65, 106-18 201 Multidrug pump inhibitors uncover remarkable activity of plant antimicrobials. 2002, 46, 3133-41 356 Properties and substrate specificity of RppA, a chalcone synthase-related polyketide synthase in Streptomyces griseus. 2002, 277, 4628-35 A stilbene synthase from Japanese red pine (Pinus densifiora): implications for phytoalexin	512	Localization of flavonoid enzymes in Arabidopsis roots. 2001 , 27, 37-48	149
Phytochemistry in the genomics and post-genomics eras. 2001, 57, 145-8 Discovery of a new bacterial polyketide biosynthetic pathway. 2001, 2, 35-8 77 Molecular and biochemical characterization of three aromatic polyketide synthase genes from Rubus idaeus. 2001, 46, 1-15 Structure and mechanism of chalcone synthase-like polyketide synthases. 2001, 27, 393-8 41 505 Structures of beta-ketoacyl-acyl carrier protein synthase I complexed with fatty acids elucidate its catalytic machinery. 2001, 9, 233-43 61 Glycopeptide antibiotic biosynthesis: enzymatic assembly of the dedicated amino acid monomer (S)-3,5-dihydroxyphenylglycine. 2001, 98, 14901-6 A polyketide synthase in glycopeptide biosynthesis: the biosynthesis of the non-proteinogenic amino acid (S)-3,5-dihydroxyphenylglycine. 2001, 276, 38370-7 502 Biosynthesis of polyketides in heterologous hosts. 2001, 65, 106-18 201 Multidrug pump inhibitors uncover remarkable activity of plant antimicrobials. 2002, 46, 3133-41 356 Properties and substrate specificity of RppA, a chalcone synthase-related polyketide synthase in Streptomyces griseus. 2002, 277, 4628-35 A stilbene synthase from Japanese red pine (Pinus densiflora): implications for phytoalexin	511		101
Discovery of a new bacterial polyketide biosynthetic pathway. 2001, 2, 35-8 77 Molecular and biochemical characterization of three aromatic polyketide synthase genes from Rubus idaeus. 2001, 46, 1-15 34 506 Structure and mechanism of chalcone synthase-like polyketide synthases. 2001, 27, 393-8 41 505 Structures of beta-ketoacyl-acyl carrier protein synthase I complexed with fatty acids elucidate its catalytic machinery. 2001, 9, 233-43 61 61 Glycopeptide antibiotic biosynthesis: enzymatic assembly of the dedicated amino acid monomer (S)-3,5-dihydroxyphenylglycine. 2001, 98, 14901-6 A polyketide synthase in glycopeptide biosynthesis: the biosynthesis of the non-proteinogenic amino acid (S)-3,5-dihydroxyphenylglycine. 2001, 276, 38370-7 117 502 Biosynthesis of polyketides in heterologous hosts. 2001, 65, 106-18 201 Properties and substrate specificity of RppA, a chalcone synthase-related polyketide synthase in Streptomyces griseus. 2002, 277, 4628-35 A stilbene synthase from Japanese red pine (Pinus densiflora): implications for phytoalexin	510	Novel polyketides synthesized with a higher plant stilbene synthase. 2001 , 268, 3759-66	61
Molecular and biochemical characterization of three aromatic polyketide synthase genes from Rubus idaeus. 2001, 46, 1-15 Structure and mechanism of chalcone synthase-like polyketide synthases. 2001, 27, 393-8 41 Structures of beta-ketoacyl-acyl carrier protein synthase I complexed with fatty acids elucidate its catalytic machinery. 2001, 9, 233-43 Glycopeptide antibiotic biosynthesis: enzymatic assembly of the dedicated amino acid monomer (S)-3,5-dihydroxyphenylglycine. 2001, 98, 14901-6 A polyketide synthase in glycopeptide biosynthesis: the biosynthesis of the non-proteinogenic amino acid (S)-3,5-dihydroxyphenylglycine. 2001, 276, 38370-7 Biosynthesis of polyketides in heterologous hosts. 2001, 65, 106-18 201 Multidrug pump inhibitors uncover remarkable activity of plant antimicrobials. 2002, 46, 3133-41 356 Properties and substrate specificity of RppA, a chalcone synthase-related polyketide synthase in Streptomyces griseus. 2002, 277, 4628-35 A stilbene synthase from Japanese red pine (Pinus densiflora): implications for phytoalexin	509	Phytochemistry in the genomics and post-genomics eras. 2001 , 57, 145-8	9
Rubus idaeus. 2001, 46, 1-15 Structure and mechanism of chalcone synthase-like polyketide synthases. 2001, 27, 393-8 41 Structures of beta-ketoacyl-acyl carrier protein synthase I complexed with fatty acids elucidate its catalytic machinery. 2001, 9, 233-43 Glycopeptide antibiotic biosynthesis: enzymatic assembly of the dedicated amino acid monomer (S)-3,5-dihydroxyphenylglycine. 2001, 98, 14901-6 A polyketide synthase in glycopeptide biosynthesis: the biosynthesis of the non-proteinogenic amino acid (S)-3,5-dihydroxyphenylglycine. 2001, 276, 38370-7 Biosynthesis of polyketides in heterologous hosts. 2001, 65, 106-18 201 Multidrug pump inhibitors uncover remarkable activity of plant antimicrobials. 2002, 46, 3133-41 356 Properties and substrate specificity of RppA, a chalcone synthase-related polyketide synthase in Streptomyces griseus. 2002, 277, 4628-35 A stilbene synthase from Japanese red pine (Pinus densiflora): implications for phytoalexin	508	Discovery of a new bacterial polyketide biosynthetic pathway. 2001 , 2, 35-8	77
Structures of beta-ketoacyl-acyl carrier protein synthase I complexed with fatty acids elucidate its catalytic machinery. 2001, 9, 233-43 Glycopeptide antibiotic biosynthesis: enzymatic assembly of the dedicated amino acid monomer (S)-3,5-dihydroxyphenylglycine. 2001, 98, 14901-6 A polyketide synthase in glycopeptide biosynthesis: the biosynthesis of the non-proteinogenic amino acid (S)-3,5-dihydroxyphenylglycine. 2001, 276, 38370-7 Biosynthesis of polyketides in heterologous hosts. 2001, 65, 106-18 201 Multidrug pump inhibitors uncover remarkable activity of plant antimicrobials. 2002, 46, 3133-41 356 Properties and substrate specificity of RppA, a chalcone synthase-related polyketide synthase in Streptomyces griseus. 2002, 277, 4628-35 A stilbene synthase from Japanese red pine (Pinus densiflora): implications for phytoalexin	507		34
Glycopeptide antibiotic biosynthesis: enzymatic assembly of the dedicated amino acid monomer (S)-3,5-dihydroxyphenylglycine. 2001, 98, 14901-6 A polyketide synthase in glycopeptide biosynthesis: the biosynthesis of the non-proteinogenic amino acid (S)-3,5-dihydroxyphenylglycine. 2001, 276, 38370-7 Biosynthesis of polyketides in heterologous hosts. 2001, 65, 106-18 201 Multidrug pump inhibitors uncover remarkable activity of plant antimicrobials. 2002, 46, 3133-41 356 Properties and substrate specificity of RppA, a chalcone synthase-related polyketide synthase in Streptomyces griseus. 2002, 277, 4628-35 A stilbene synthase from Japanese red pine (Pinus densiflora): implications for phytoalexin	506	Structure and mechanism of chalcone synthase-like polyketide synthases. 2001 , 27, 393-8	41
(S)-3,5-dihydroxyphenylglycine. 2001, 98, 14901-6 A polyketide synthase in glycopeptide biosynthesis: the biosynthesis of the non-proteinogenic amino acid (S)-3,5-dihydroxyphenylglycine. 2001, 276, 38370-7 Biosynthesis of polyketides in heterologous hosts. 2001, 65, 106-18 201 Multidrug pump inhibitors uncover remarkable activity of plant antimicrobials. 2002, 46, 3133-41 356 Properties and substrate specificity of RppA, a chalcone synthase-related polyketide synthase in Streptomyces griseus. 2002, 277, 4628-35 A stilbene synthase from Japanese red pine (Pinus densiflora): implications for phytoalexin	505		88
amino acid (S)-3,5-dihydroxyphenylglycine. 2001, 276, 38370-7 Biosynthesis of polyketides in heterologous hosts. 2001, 65, 106-18 Multidrug pump inhibitors uncover remarkable activity of plant antimicrobials. 2002, 46, 3133-41 Properties and substrate specificity of RppA, a chalcone synthase-related polyketide synthase in Streptomyces griseus. 2002, 277, 4628-35 A stilbene synthase from Japanese red pine (Pinus densiflora): implications for phytoalexin	504		88
Multidrug pump inhibitors uncover remarkable activity of plant antimicrobials. 2002, 46, 3133-41 356 Properties and substrate specificity of RppA, a chalcone synthase-related polyketide synthase in Streptomyces griseus. 2002, 277, 4628-35 A stilbene synthase from Japanese red pine (Pinus densiflora): implications for phytoalexin	503		117
Properties and substrate specificity of RppA, a chalcone synthase-related polyketide synthase in Streptomyces griseus. 2002, 277, 4628-35 A stilbene synthase from Japanese red pine (Pinus densiflora): implications for phytoalexin	502	Biosynthesis of polyketides in heterologous hosts. 2001 , 65, 106-18	201
Streptomyces griseus. 2002 , 277, 4628-35 A stilbene synthase from Japanese red pine (Pinus densiflora): implications for phytoalexin	501	Multidrug pump inhibitors uncover remarkable activity of plant antimicrobials. 2002 , 46, 3133-41	356
	500		73
	499		66

498	Mutant acyl-coenzyme A:cholesterol acyltransferase 1 devoid of cysteine residues remains catalytically active. 2002 , 277, 711-8	15
497	Alteration of reaction and substrate specificity of a bacterial type III polyketide synthase by site-directed mutagenesis. 2002 , 367, 781-9	39
496	Expanding the biosynthetic repertoire of plant type III polyketide synthases by altering starter molecule specificity. 2002 , 99, 5319-24	124
495	Chapter Six A mutational approach to dissection of flavonoid biosynthesis in arabidopsis. 2002 , 36, 95-110	3
494	Chapter Twelve Structurally guided alteration of biosynthesis in plant type III polyketide synthases. 2002 , 197-222	
493	Molecular genetics and control of anthocyanin expression. 2002 , 37, 75-94	7
492	Enzymatic formation of an unnatural C(6)-C(5) aromatic polyketide by plant type III polyketide synthases. 2002 , 4, 3623-6	33
491	Cloning and characterisation of chs-specific DNA and cDNA sequences from hop (Humulus lupulus L.). 2002 , 162, 1007-1018	31
490	Biosynthesis of flavonoids and effects of stress. 2002 , 5, 218-23	1236
489	Structure and mechanism of anthocyanidin synthase from Arabidopsis thaliana. 2002 , 10, 93-103	251
488	Crystal structure of the priming beta-ketosynthase from the R1128 polyketide biosynthetic pathway. 2002 , 10, 1559-68	63
487	Substrate specificity and sequence analysis define a polyphyletic origin of betanidin 5- and 6-O-glucosyltransferase from Dorotheanthus bellidiformis. 2002 , 214, 492-5	63
486	The phenylpropanoid pathway and plant defence-a genomics perspective. 2002, 3, 371-90	857
485	Engineering and mechanistic studies of the Arabidopsis FAE1 beta-ketoacyl-CoA synthase, FAE1 KCS. 2002 , 269, 3531-9	55
484	Studies into factors contributing to substrate specificity of membrane-bound 3-ketoacyl-CoA synthases. 2002 , 269, 4789-98	39
483	Incorporation of three deuterium atoms excludes intermediacy of stilbenecarboxylic acid in stilbene synthase reaction. 2002 , 43, 5071-5074	5
482	Predicting the substrates of cloned plant O-methyltransferases. 2002 , 59, 1-8	40
481	Valerophenone synthase-like chalcone synthase homologues in Humulus lupulus. 2003 , 46, 375-381	17

(2003-2003)

480	The structure of ActVA-Orf6, a novel type of monooxygenase involved in actinorhodin biosynthesis. 2003 , 22, 205-15	135
479	Heterologous production of flavanones in Escherichia coli: potential for combinatorial biosynthesis of flavonoids in bacteria. 2003 , 30, 456-61	65
478	Expression and characterization of the type III polyketide synthase 1,3,6,8-tetrahydroxynaphthalene synthase from Streptomyces coelicolor A3(2). 2003 , 30, 510-5	51
477	A flavonol O-methyltransferase from Catharanthus roseus performing two sequential methylations. 2003 , 62, 127-37	66
476	Aromatic and pyrone polyketides synthesized by a stilbene synthase from Rheum tataricum. 2003 , 62, 313-23	37
475	Stilbenecarboxylate biosynthesis: a new function in the family of chalcone synthase-related proteins. 2003 , 62, 271-86	67
474	A family of polyketide synthase genes expressed in ripening Rubus fruits. 2003, 62, 513-26	47
473	Covalent binding of chloroacetamide herbicides to the active site cysteine of plant type III polyketide synthases. 2003 , 64, 1045-54	50
472	Benzophenone synthase and chalcone synthase from Hypericum androsaemum cell cultures: cDNA cloning, functional expression, and site-directed mutagenesis of two polyketide synthases. 2003 , 34, 847-55	97
471	Structure validation by Calpha geometry: phi,psi and Cbeta deviation. 2003 , 50, 437-50	3522
47 ¹	Structure validation by Calpha geometry: phi,psi and Cbeta deviation. 2003 , 50, 437-50 Flufenacet herbicide treatment phenocopies the fiddlehead mutant in Arabidopsis thaliana. 2003 , 59, 847-56	3522 38
	Flufenacet herbicide treatment phenocopies the fiddlehead mutant in Arabidopsis thaliana. 2003 ,	
470	Flufenacet herbicide treatment phenocopies the fiddlehead mutant in Arabidopsis thaliana. 2003, 59, 847-56 Enzymatic formation of unnatural novel polyketides from alternate starter and nonphysiological	38
47° 469	Flufenacet herbicide treatment phenocopies the fiddlehead mutant in Arabidopsis thaliana. 2003, 59, 847-56 Enzymatic formation of unnatural novel polyketides from alternate starter and nonphysiological extension substrate by chalcone synthase. 2003, 5, 1277-80 Differential expression of three key anthocyanin biosynthetic genes in a color-changing flower,	38
47° 469 468	Flufenacet herbicide treatment phenocopies the fiddlehead mutant in Arabidopsis thaliana. 2003, 59, 847-56 Enzymatic formation of unnatural novel polyketides from alternate starter and nonphysiological extension substrate by chalcone synthase. 2003, 5, 1277-80 Differential expression of three key anthocyanin biosynthetic genes in a color-changing flower, Viola cornuta cv. Yesterday, Today and Tomorrow. 2003, 165, 1333-1342 Structure analysis of peptide deformylases from Streptococcus pneumoniae, Staphylococcus aureus, Thermotoga maritima and Pseudomonas aeruginosa: snapshots of the oxygen sensitivity of	38 30 33
47° 469 468 467	Flufenacet herbicide treatment phenocopies the fiddlehead mutant in Arabidopsis thaliana. 2003, 59, 847-56 Enzymatic formation of unnatural novel polyketides from alternate starter and nonphysiological extension substrate by chalcone synthase. 2003, 5, 1277-80 Differential expression of three key anthocyanin biosynthetic genes in a color-changing flower, Viola cornuta cv. Yesterday, Today and Tomorrow. 2003, 165, 1333-1342 Structure analysis of peptide deformylases from Streptococcus pneumoniae, Staphylococcus aureus, Thermotoga maritima and Pseudomonas aeruginosa: snapshots of the oxygen sensitivity of peptide deformylase. 2003, 330, 309-21 Molecular characterization of transparent testa (tt) mutants of Arabidopsis thaliana (ecotype	38 30 33 38
470 469 468 467 466	Flufenacet herbicide treatment phenocopies the fiddlehead mutant in Arabidopsis thaliana. 2003, 59, 847-56 Enzymatic formation of unnatural novel polyketides from alternate starter and nonphysiological extension substrate by chalcone synthase. 2003, 5, 1277-80 Differential expression of three key anthocyanin biosynthetic genes in a color-changing flower, Viola cornuta cv. Yesterday, Today and Tomorrow. 2003, 165, 1333-1342 Structure analysis of peptide deformylases from Streptococcus pneumoniae, Staphylococcus aureus, Thermotoga maritima and Pseudomonas aeruginosa: snapshots of the oxygen sensitivity of peptide deformylase. 2003, 330, 309-21 Molecular characterization of transparent testa (tt) mutants of Arabidopsis thaliana (ecotype Estland) impaired in flavonoid biosynthetic pathway. 2003, 165, 1321-1332 Chalcone isomerase gene from rice (Oryza sativa) and barley (Hordeum vulgare): physical, genetic	38 30 33 38 34

462	The 1.3-Angstrom-resolution crystal structure of beta-ketoacyl-acyl carrier protein synthase II from Streptococcus pneumoniae. 2003 , 185, 4136-43	41
461	Communication between the maternal testa and the embryo and/or endosperm affect testa attributes in tomato. 2003 , 133, 145-60	25
460	Site-directed mutagenesis of benzalacetone synthase. The role of the Phe215 in plant type III polyketide synthases. 2003 , 278, 25218-26	56
459	Chapter three Regulation of anthocyanin pigmentation. 2003 , 37, 59-78	22
458	NRPS-PKS: a knowledge-based resource for analysis of NRPS/PKS megasynthases. 2004 , 32, W405-13	238
457	Mechanistic studies on three 2-oxoglutarate-dependent oxygenases of flavonoid biosynthesis: anthocyanidin synthase, flavonol synthase, and flavanone 3beta-hydroxylase. 2004 , 279, 1206-16	140
456	Staphylococcus aureus 3-hydroxy-3-methylglutaryl-CoA synthase: crystal structure and mechanism. 2004 , 279, 44883-8	44
455	Crystal structure of a bacterial type III polyketide synthase and enzymatic control of reactive polyketide intermediates. 2004 , 279, 45162-74	138
454	Regulation of gene expression involved in flavonol and anthocyanin biosynthesis during petal development in lisianthus (Eustoma grandiflorum). 2004 , 122, 305-313	44
453	An antibiotic factory caught in action. 2004 , 11, 888-93	142
453 452	An antibiotic factory caught in action. 2004, 11, 888-93 A novel tunnel in mycobacterial type III polyketide synthase reveals the structural basis for generating diverse metabolites. 2004, 11, 894-900	80
	A novel tunnel in mycobacterial type III polyketide synthase reveals the structural basis for	
452	A novel tunnel in mycobacterial type III polyketide synthase reveals the structural basis for generating diverse metabolites. 2004 , 11, 894-900	80
45 ² 45 ¹	A novel tunnel in mycobacterial type III polyketide synthase reveals the structural basis for generating diverse metabolites. 2004 , 11, 894-900 Automated analysis of vapor diffusion crystallization drops with an X-ray beam. 2004 , 12, 1219-25	80 71
45 ² 45 ¹ 45 ⁰	A novel tunnel in mycobacterial type III polyketide synthase reveals the structural basis for generating diverse metabolites. 2004 , 11, 894-900 Automated analysis of vapor diffusion crystallization drops with an X-ray beam. 2004 , 12, 1219-25 Metabolic channeling in plants. 2004 , 55, 85-107 Flavonoid methylation: a novel 4'-O-methyltransferase from Catharanthus roseus, and evidence that partially methylated flavanones are substrates of four different flavonoid dioxygenases. 2004 ,	80 71 489
45 ² 45 ¹ 45 ⁰ 449	A novel tunnel in mycobacterial type III polyketide synthase reveals the structural basis for generating diverse metabolites. 2004, 11, 894-900 Automated analysis of vapor diffusion crystallization drops with an X-ray beam. 2004, 12, 1219-25 Metabolic channeling in plants. 2004, 55, 85-107 Flavonoid methylation: a novel 4'-O-methyltransferase from Catharanthus roseus, and evidence that partially methylated flavanones are substrates of four different flavonoid dioxygenases. 2004, 65, 1085-94 Characterization and structural features of a chalcone synthase mutation in a white-flowering line	80 71 489 61
452 451 450 449 448	A novel tunnel in mycobacterial type III polyketide synthase reveals the structural basis for generating diverse metabolites. 2004, 11, 894-900 Automated analysis of vapor diffusion crystallization drops with an X-ray beam. 2004, 12, 1219-25 Metabolic channeling in plants. 2004, 55, 85-107 Flavonoid methylation: a novel 4'-O-methyltransferase from Catharanthus roseus, and evidence that partially methylated flavanones are substrates of four different flavonoid dioxygenases. 2004, 65, 1085-94 Characterization and structural features of a chalcone synthase mutation in a white-flowering line of Matthiola incana R. Br. (Brassicaceae). 2004, 55, 455-65 Likelihood analysis of the chalcone synthase genes suggests the role of positive selection in	80 71 489 61 19

(2005-2004)

444	Unprecedented mechanism of chain length determination in fungal aromatic polyketide synthases. 2004 , 11, 1101-6	36
443	An aldol switch discovered in stilbene synthases mediates cyclization specificity of type III polyketide synthases. 2004 , 11, 1179-94	202
442	A high-performance liquid chromatography method for the analysis of intermediates of the deoxyxylulose phosphate pathway. 2004 , 335, 235-43	7
441	Probing biosynthesis of plant polyketides with synthetic N-acetylcysteamine thioesters. 2004 , 325, 561-7	42
440	The first plant type III polyketide synthase that catalyzes formation of aromatic heptaketide. 2004 , 562, 171-6	49
439	Phytoestrogens. 2004 , 55, 225-61	356
438	Molecular Biology and Biotechnology of Flavonoid Biosynthesis. 2005 , 143-218	9
437	Chalcone synthase superfamily of type III polyketide synthases from rhubarb (Rheum palmatum). 2005 , 81, 434-440	8
436	The structural biology of type II fatty acid biosynthesis. 2005 , 74, 791-831	593
435	Current and Emerging Approaches for Natural Product Biosynthesis in Microbial Cells. 2005 , 347, 927-940	35
434	Comparison of the phytoestrogen trans-resveratrol (3,4′,5-trihydroxystilbene) structures from x-ray diffraction and solution NMR. 2005 , 43, 567-72	21
433	The basic color factor, the C locus, encodes a regulatory gene controlling transcription of chalcone synthase genes in onions (Allium cepa). 2005 , 142, 273-282	19
432	Crystal structure of stilbene synthase from Arachis hypogaea. 2005 , 60, 803-6	43
431	Structural elucidation of chalcone reductase and implications for deoxychalcone biosynthesis. 2005 , 280, 30496-503	71
430	Crystal structure of a substrate complex of Mycobacterium tuberculosis beta-ketoacyl-acyl carrier protein synthase III (FabH) with lauroyl-coenzyme A. 2005 , 346, 1313-21	50
429	High resolution crystal structures of human cytosolic thiolase (CT): a comparison of the active sites of human CT, bacterial thiolase, and bacterial KAS I. 2005 , 347, 189-201	50
428	Discovery of a novel superfamily of type III polyketide synthases in Aspergillus oryzae. 2005 , 331, 253-60	91
427	Genomic evidences for the existence of a phenylpropanoid metabolic pathway in Aspergillus oryzae. 2005 , 337, 747-51	17

426	Molecular evolution of the chalcone synthase gene family and identification of the expressed copy in flower petal tissue of Viola cornuta. 2005 , 168, 1127-1134	8
425	The Biosynthesis of Flavonoids. 2006 , 71-95	54
424	The genetics and biochemistry of floral pigments. 2006 , 57, 761-80	930
423	Enzymatic formation of quinolone alkaloids by a plant type III polyketide synthase. 2006 , 8, 6063-5	35
422	Engineered biosynthesis of plant polyketides: manipulation of chalcone synthase. 2006 , 8, 499-502	36
421	Biochemical characterization and mutational studies of a chalcone synthase from yellow snapdragon (Antirrhinum majus) flowers. 2006 , 23, 373-378	9
420	Flavonoids attenuate cardiovascular disease, inhibit phosphodiesterase, and modulate lipid homeostasis in adipose tissue and liver. 2006 , 231, 1287-99	136
419	Crystallization and preliminary crystallographic analysis of a novel plant type III polyketide synthase that produces pentaketide chromone. 2006 , 62, 899-901	5
418	Active site residues governing substrate selectivity and polyketide chain length in aloesone synthase. 2006 , 273, 208-18	33
417	Methylation of sulfhydryl groups: a new function for a family of small molecule plant O-methyltransferases. 2006 , 46, 193-205	21
416	Biosynthesis of Dictyostelium discoideum differentiation-inducing factor by a hybrid type I fatty acid-type III polyketide synthase. 2006 , 2, 494-502	99
415	Enzymatic formation of an unnatural methylated triketide by plant type III polyketide synthases. 2006 , 47, 8727-8730	16
414	Cloning and characterization of a novel chalcone synthase gene from Phalaenopsis hybrida orchid flowers. 2006 , 53, 223-230	14
413	Metabolons involving plant cytochrome P450s. 2006 , 5, 459-472	57
412	Molecular evolution and functional specialization of chalcone synthase superfamily from Phalaenopsis orchid. 2006 , 128, 429-38	37
411	Chalcone synthase homologues from Humulus lupulus: some enzymatic properties and expression. 2006 , 50, 48-54	25
410	Molecular modeling of the effects of mutant alleles on chalcone synthase protein structure. 2006 , 12, 905-14	9
409	A type III polyketide synthase from Wachendorfia thyrsiflora and its role in diarylheptanoid and phenylphenalenone biosynthesis. 2006 , 224, 413-28	72

(2007-2006)

408	Cloning and characterization of chalcone synthase from the moss, Physcomitrella patens. 2006 , 67, 2531-40	77
407	Duplication and divergent evolution of the CHS and CHS-like genes in the chalcone synthase (CHS) superfamily. 2006 , 51, 505-509	11
406	The thiolase superfamily: condensing enzymes with diverse reaction specificities. 2006, 31, 64-71	126
405	Catalytic relationships between type I and type II iterative polyketide synthases: The Aspergillus parasiticus norsolorinic acid synthase. 2006 , 7, 1951-8	33
404	Mining plant diversity: Gerbera as a model system for plant developmental and biosynthetic research. 2006 , 28, 756-67	39
403	Phenolic lipid synthesis by type III polyketide synthases is essential for cyst formation in Azotobacter vinelandii. 2006 , 103, 6356-61	132
402	Characterization of the substrate specificity of PhlD, a type III polyketide synthase from Pseudomonas fluorescens. 2006 , 281, 32036-47	53
401	In vitro synthesis of curcuminoids by type III polyketide synthase from Oryza sativa. 2007 , 282, 37702-9	75
400	Modulation of flower colour by rationally designed dominant-negative chalcone synthase. 2007 , 58, 2471-8	19
399	Mechanisms of Type III Polyketide Synthase Functional Diversity: From 'Steric Modulation' to the 'Reaction Partitioning' Model. 2007 , 185-197	1
398	Mechanism of inhibition of bovine F1-ATPase by resveratrol and related polyphenols. 2007, 104, 13632-7	291
397	Mutational analysis of conserved outer sphere arginine residues of chalcone synthase. 2007 , 142, 731-9	7
396	A molecular caliper mechanism for determining very long-chain fatty acid length. 2007, 130, 663-77	196
395	Transgenic Crops VI. 2007 ,	4
394	Biosynthesis of Plant Natural Products and Characterization of Plant Biosynthetic Pathways in Recombinant Microorganisms. 2007 , 1-43	6
393	Structure function analysis of benzalacetone synthase from Rheum palmatum. 2007 , 17, 3161-6	24
392	A comprehensive and engaging overview of the type III family of polyketide synthases. 2007 , 11, 279-86	36
391	Structural insight into chain-length control and product specificity of pentaketide chromone synthase from Aloe arborescens. 2007 , 14, 359-69	61

390	Crystallization and preliminary crystallographic analysis of an acridone-producing novel multifunctional type III polyketide synthase from Huperzia serrata. 2007 , 63, 576-8	11
389	A polyketide synthase of Plumbago indica that catalyzes the formation of hexaketide pyrones. 2007 , 274, 406-17	32
388	An acridone-producing novel multifunctional type III polyketide synthase from Huperzia serrata. 2007 , 274, 1073-82	47
387	Versatility of polyketide synthases in generating metabolic diversity. 2007 , 17, 736-43	52
386	Microbial production of natural raspberry ketone. 2007 , 2, 1270-9	69
385	Biotechnology of flavonoids and other phenylpropanoid-derived natural products. Part II: Reconstruction of multienzyme pathways in plants and microbes. 2007 , 2, 1235-49	75
384	Nested Inverse Polymerase Chain Reactions: An Effective Method for Cloning of Full-Length Sequences of Chalcone Synthase. 2007 , 25, 63-69	
383	Mechanism of inhibition of human secretory phospholipase A2 by flavonoids: rationale for lead design. 2007 , 21, 473-83	58
382	Structure and function of enzymes involved in the biosynthesis of phenylpropanoids. 2008, 46, 356-70	486
381	Zero erucic acid trait of rapeseed (Brassica napus L.) results from a deletion of four base pairs in the fatty acid elongase 1 gene. 2008 , 116, 491-9	69
380	Crystallization and preliminary X-ray diffraction studies of polyketide synthase-1 (PKS-1) from Cannabis sativa. 2008 , 64, 217-20	10
379	Crystallization and preliminary crystallographic analysis of a plant type III polyketide synthase that produces benzalacetone. 2008 , 64, 304-6	6
378	Pyrone polyketides synthesized by a type III polyketide synthase from Drosophyllum lusitanicum. 2008 , 69, 3043-53	26
377	Production of phenylpropanoid compounds by recombinant microorganisms expressing plant-specific biosynthesis genes. 2008 , 43, 463-479	29
376	Design, synthesis and spectroscopic studies of resveratrol aliphatic acid ligands of human serum albumin. 2008 , 16, 6406-14	51
375	Distinct structural elements dictate the specificity of the type III pentaketide synthase from Neurospora crassa. 2008 , 15, 1079-90	34
374	Evolving biosynthetic tangos negotiate mechanistic landscapes. 2008, 4, 217-22	50
373	Nature's assembly line: biosynthesis of simple phenylpropanoids and polyketides. 2008 , 54, 750-62	121

(2009-2008)

372	Total biosynthesis: in vitro reconstitution of polyketide and nonribosomal peptide pathways. 2008 , 25, 757-93	169
371	Molecular cloning and tissue-specific expression of two cDNAs encoding polyketide synthases from Hypericum perforatum. 2008 , 165, 1079-86	33
370	A shared binding site for NAD+ and coenzyme A in an acetaldehyde dehydrogenase involved in bacterial degradation of aromatic compounds. 2008 , 47, 6870-82	17
369	Crystal and molecular structure of piceatannol; scavenging features of resveratrol and piceatannol on hydroxyl and peroxyl radicals and docking with transthyretin. 2008 , 56, 10557-66	61
368	Structure function analysis of novel type III polyketide synthases from Arabidopsis thaliana. 2008 , 31, 2205-10	26
367	Engineering of plant polyketide biosynthesis. 2008 , 56, 1505-14	26
366	Single Alien Chromosome Additions from Shallot (Allium cepa L. Aggregatum group) Increase Endogenous Polyphenol Contents in Japanese Bunching Onion. 2009 , 78, 431-435	8
365	Curcuminoid biosynthesis by two type III polyketide synthases in the herb Curcuma longa. 2009 , 284, 11160-70	108
364	A single amino acid substitution converts benzophenone synthase into phenylpyrone synthase. 2009 , 284, 30957-64	20
363	Characterization of olivetol synthase, a polyketide synthase putatively involved in cannabinoid biosynthetic pathway. 2009 , 583, 2061-6	98
362	Identification and characterization of multiple curcumin synthases from the herb Curcuma longa. 2009 , 583, 2799-803	69
361	Die biosynthetische Grundlage der Polyketid-Vielfalt. 2009 , 121, 4782-4811	181
360	The biosynthetic logic of polyketide diversity. 2009 , 48, 4688-716	918
359	A novel type III polyketide synthase encoded by a three-intron gene from Polygonum cuspidatum. 2009 , 229, 457-69	35
358	Identification of a Polygonum cuspidatum three-intron gene encoding a type III polyketide synthase producing both naringenin and p-hydroxybenzalacetone. 2009 , 229, 1077-86	19
357	Biosynthesis of biphenyls and benzophenonesevolution of benzoic acid-specific type III polyketide synthases in plants. 2009 , 70, 1719-27	52
356	Plant polyketide synthases: a fascinating group of enzymes. 2009 , 47, 167-74	68
355	Cloning, characterization and localization of CHS gene from blood orange, Citrus sinensis (L.) Osbeck cv. Ruby. 2009 , 36, 1983-90	12

354	A quantum mechanics study on the reaction mechanism of chalcone formation from p-coumaroyl-CoA and malonyl-CoA catalyzed by chalcone synthase. 2009 , 122, 157-166		1
353	Chitosan treatment induces changes of protein expression profile and stilbene distribution in Vitis vinifera cell suspensions. 2009 , 9, 610-24		94
352	Novel type III polyketide synthases from Aloe arborescens. 2009 , 276, 2391-401		36
351	Phylogenetic analysis and differentiation of Veronicasubgenus Stenocarponin the Balkan Peninsula. 2009 , 159, 616-636		17
350	Molecular engineering of resveratrol in plants. 2009 , 7, 2-12		116
349	Enzymatic formation of unnatural novel polyketide scaffolds by plant-specific type III polyketide synthase. 2009 , 50, 2150-2153		5
348	Metabolism and roles of stilbenes in plants. 2009 , 177, 143-155		412
347	Inhibition of ATPase activity of Escherichia coli ATP synthase by polyphenols. 2009 , 45, 72-9		81
346	Enzymatic formation of unnatural novel chalcone, stilbene, and benzophenone scaffolds by plant type III polyketide synthase. 2009 , 11, 551-4		31
345	Engineered biosynthesis of plant polyketides: structure-based and precursor-directed approach. 2010 , 297, 45-66		14
344	In vitro precursor-directed synthesis of polyketide analogues with coenzyme a regeneration for the development of antiangiogenic agents. 2009 , 11, 3806-9		22
343	Stilbene synthase gene transfer caused alterations in the phenylpropanoid metabolism of transgenic strawberry (Fragaria x ananassa). 2009 , 60, 2093-106		50
342	Detection of covalent and noncovalent intermediates in the polymerization reaction catalyzed by a C149S class III polyhydroxybutyrate synthase. 2009 , 48, 9202-11		18
341	Chapter 9. Synthetic probes for polyketide and nonribosomal peptide biosynthetic enzymes. <i>Methods in Enzymology</i> , 2009 , 458, 219-54	1.7	15
340	Structure of PqsD, a Pseudomonas quinolone signal biosynthetic enzyme, in complex with anthranilate. 2009 , 48, 8644-55		51
339	?????????????. 2009 , 47, 772-780		
338	Fatty Acid Biosynthesis and Oxidation. 2010 , 231-275		14
337	Identification of the sequences recognized by the Bacillus subtilis response regulator YclJ. 2010 , 192, 569-80		5

(2010-2010)

336	Genetic and metabolic engineering of isoflavonoid biosynthesis. 2010 , 86, 1293-312	107
335	Alkylresorcylic acid synthesis by type III polyketide synthases from rice Oryza sativa. 2010 , 71, 1059-67	27
334	A novel 4-hydroxycoumarin biosynthetic pathway. 2010 , 72, 17-25	31
333	Genome-wide analysis of the chalcone synthase superfamily genes of Physcomitrella patens. 2010 , 72, 247-63	59
332	Production of tetraketide lactones by mutated Antirrhinum majus chalcone synthases (AmCHS1). 2010 , 110, 158-64	2
331	Characterization and reconstitution of a new fungal type III polyketide synthase from Aspergillus oryzae. 2010 , 46, 575-580	23
330	Aspergillus oryzae type III polyketide synthase CsyA is involved in the biosynthesis of 3,5-dihydroxybenzoic acid. 2010 , 20, 4785-8	28
329	Structure-based engineering of benzalacetone synthase. 2010 , 20, 5099-103	6
328	Genome-wide analysis of phenylpropanoid defence pathways. 2010 , 11, 829-46	235
327	Unusual intron in the second exon of a Type III polyketide synthase gene of Alpinia calcarata Rosc. 2010 , 33, 141-5	3
326	In silicio expression analysis of PKS genes isolated from Cannabis sativa L. 2010 , 33, 703-13	7
325	De Gruyter. 2010 , 7,	7
324	Molecular cloning and expression profiling of a chalcone synthase gene from hairy root cultures of Scutellaria viscidula Bunge. 2010 , 33, 285-91	11
323	Structural basis for the one-pot formation of the diarylheptanoid scaffold by curcuminoid synthase from Oryza sativa. 2010 , 107, 19778-83	39
322	LAP5 and LAP6 encode anther-specific proteins with similarity to chalcone synthase essential for pollen exine development in Arabidopsis. 2010 , 153, 937-55	158
321	A structure-based mechanism for benzalacetone synthase from Rheum palmatum. 2010 , 107, 669-73	40
320	Microbial Type III Polyketide Synthases. 2010 , 147-170	6
319	Plant Type III PKS. 2010 , 171-225	9

318	Alkylresorcinol synthases expressed in Sorghum bicolor root hairs play an essential role in the biosynthesis of the allelopathic benzoquinone sorgoleone. 2010 , 22, 867-87	68
317	Structure and function of the chalcone synthase superfamily of plant type III polyketide synthases. 2010 , 27, 809-38	213
316	Role of cysteine residues in thiol modification of acyl-CoA:diacylglycerol acyltransferase 2 from yeast. 2010 , 49, 3237-45	15
315	Type III polyketide synthases in lichen mycobionts. 2010 , 114, 379-85	17
314	References. 2010 , 807-843	
313	The Biological Activity of Phytochemicals. 2011 ,	3
312	Structural and kinetic analysis of the unnatural fusion protein 4-coumaroyl-CoA ligase::stilbene synthase. 2011 , 133, 20684-7	32
311	Characteristics of chalcone synthase promoters from different leaf-color malus crabapple cultivars. 2011 , 129, 449-458	28
310	Structure of trans-resveratrol in complex with the cardiac regulatory protein troponin C. 2011 , 50, 1309-20	28
309	PpASCL, a moss ortholog of anther-specific chalcone synthase-like enzymes, is a hydroxyalkylpyrone synthase involved in an evolutionarily conserved sporopollenin biosynthesis pathway. 2011 , 192, 855-868	41
308	Fatty acyl-AMP ligases and polyketide synthases are unique enzymes of lipid biosynthetic machinery in Mycobacterium tuberculosis. 2011 , 91, 448-55	14
307	Two new polyols and a new phenylpropanoid glycoside from the basidiomycete Lactarius deliciosus. 2011 , 82, 1309-12	1
306	Chemical modifications of resveratrol for improved protein kinase C alpha activity. 2011 , 19, 5321-33	28
305	Gene duplication and adaptive evolution of the CHS-like genes within the genus Rheum (Polygonaceae). 2011 , 39, 651-659	5
304	Convergent strategies in biosynthesis. 2011 , 28, 1054-86	28
303	Chalcone synthase and its functions in plant resistance. 2011 , 10, 397-412	324
302	Molecular cloning of allelopathy related genes and their relation to HHO in Eupatorium adenophorum. 2011 , 38, 4651-6	7
301	Simultaneous post-transcriptional gene silencing of two different chalcone synthase genes resulting in pure white flowers in the octoploid dahlia. 2011 , 234, 945-58	53

300	Structure, function, and engineering of enzymes in isoflavonoid biosynthesis. 2011 , 11, 13-22	49
299	Isolation and promoter analysis of a chalcone synthase gene PtrCHS4 from Populus trichocarpa. 2011 , 30, 1661-71	10
298	Dietary chalcones with chemopreventive and chemotherapeutic potential. 2011 , 6, 125-47	170
297	Crystal structure of curcuminoid synthase CUS from Oryza sativa. 2011 , 79, 669-73	6
296	Flavonoid Biosynthesis. 2011 , 293-320	8
295	Regulation of stem cell signaling by nanoparticle-mediated intracellular protein delivery. 2011 , 32, 3210-9	53
294	Evolutionary Implications and Physicochemical Analyses of Selected Proteins of Type III Polyketide Synthase Family. 2011 , 7, 41-53	8
293	Structural and biochemical elucidation of mechanism for decarboxylative condensation of beta-keto acid by curcumin synthase. 2011 , 286, 6659-68	20
292	A bHLH transcription factor, DvIVS, is involved in regulation of anthocyanin synthesis in dahlia (Dahlia variabilis). 2011 , 62, 5105-16	67
291	Synthesis of unnatural alkaloid scaffolds by exploiting plant polyketide synthase. 2011 , 108, 13504-9	50
29 0	Enzymatic properties and mutational studies of chalcone synthase from Physcomitrella patens. 2012 , 13, 9673-91	13
289	The Botrytis cinerea type III polyketide synthase shows unprecedented high catalytic efficiency toward long chain acyl-CoAs. 2012 , 8, 2864-7	25
288	A type III polyketide synthase from Rhizobium etli condenses malonyl CoAs to a heptaketide pyrone with unusually high catalytic efficiency. 2012 , 8, 3103-6	3
287	Rational approaches for engineering novel functionalities in carbon-carbon bond forming enzymes. 2012 , 2, e201209003	5
286	Biosynthesis, natural sources, dietary intake, pharmacokinetic properties, and biological activities of hydroxycinnamic acids. 2012 , 60, 10877-95	254
285	Molecular cloning and differential expressions of two cDNA encoding Type III polyketide synthase in different tissues of Curcuma longa L. 2012 , 491, 278-83	8
284	Mapping the mechanism of the resorcinol ring formation catalyzed by ArsB, a type III polyketide synthase from Azotobacter vinelandii. 2012 , 13, 2212-7	8
283	Proteins differentially expressed in elicited cell suspension culture of Podophyllum hexandrum with enhanced podophyllotoxin content. 2012 , 10, 34	39

282	Anthocyanin Biosynthesis, Regulation, and Transport: New Insights from Model Species. 2012, 143-160		10
281	Employing a polyketide synthase module and thioesterase in the semipreparative biocatalysis of diverse triketide pyrones. 2012 , 3, 956		18
280	Structure-function analyses of plant type III polyketide synthases. <i>Methods in Enzymology</i> , 2012 , 515, 317-35	1.7	15
279	Engineering of plant type III polyketide synthases. <i>Methods in Enzymology</i> , 2012 , 515, 337-58	1.7	7
278	Benzalacetone synthase. Frontiers in Plant Science, 2012, 3, 57	6.2	7
277	Accumulation of tilianin and rosmarinic acid and expression of phenylpropanoid biosynthetic genes in Agastache rugosa. 2012 , 60, 5945-51		47
276	Chain elongation and cyclization in type III PKS DpgA. 2012 , 13, 862-71		9
275	Novel applications of plant polyketide synthases. 2012 , 16, 179-85		24
274	Benzophenone synthase from Garcinia mangostana L. pericarps. 2012 , 77, 60-9		26
273	Protein engineering towards natural product synthesis and diversification. 2012 , 39, 227-41		20
272	Integrated transcriptional and phytochemical analyses of the flavonoid biosynthesis pathway in Epimedium. 2013 , 115, 355-365		6
271	Two type III polyketide synthases from Polygonum cuspidatum: gene structure, evolutionary route and metabolites. 2013 , 7, 371-381		21
270	Confluence of structural and chemical biology: plant polyketide synthases as biocatalysts for a bio-based future. 2013 , 16, 365-72		26
269	Response of tobacco to the Pseudomonas syringae pv. Tomato DC3000 is mainly dependent on salicylic acid signaling pathway. 2013 , 344, 77-85		20
268	Possible ways of fagopyrin biosynthesis and production in buckwheat plants. 2013 , 84, 72-9		9
267	Phenotypic changes associated with RNA interference silencing of chalcone synthase in apple (Malus 🗹 Domestica). 2013 , 74, 398-410		46
266	Determination of acidity and nucleophilicity in thiols by reaction with monobromobimane and fluorescence detection. 2013 , 435, 74-82		37
265	Structural basis for cyclization specificity of two Azotobacter type III polyketide synthases: a single amino acid substitution reverses their cyclization specificity. 2013 , 288, 34146-34157		22

(2014-2013)

264	Long-term growth under elevated CO2 suppresses biotic stress genes in non-acclimated, but not cold-acclimated winter wheat. 2013 , 54, 1751-68	20
263	Molecular Cloning and Sequences Analysis of Chalcone Synthase Gene from Fagopyrum Tataricum. 2013 , 649-656	1
262	Cloning and structure-function analyses of quinolone- and acridone-producing novel type III polyketide synthases from Citrus microcarpa. 2013 , 288, 28845-58	22
261	Protein preparation, crystallization and preliminary X-ray analysis of Polygonum cuspidatum bifunctional chalcone synthase/benzalacetone synthase. 2013 , 69, 871-5	3
260	Structure/function analysis of a type iii polyketide synthase in the brown alga Ectocarpus siliculosus reveals a biochemical pathway in phlorotannin monomer biosynthesis. 2013 , 25, 3089-103	60
259	Biochemical analyses of the antioxidative activity and chemical ingredients in eight different Allium alien monosomic addition lines. 2013 , 77, 2486-8	1
258	Crystal structure of Mycobacterium tuberculosis polyketide synthase 11 (PKS11) reveals intermediates in the synthesis of methyl-branched alkylpyrones. 2013 , 288, 16484-16494	17
257	Structural basis for a bispecific NADP+ and CoA binding site in an archaeal malonyl-coenzyme A reductase. 2013 , 288, 6363-70	16
256	Physcomitrella PpORS, basal to plant type III polyketide synthases in phylogenetic trees, is a very long chain 2'-oxoalkylresorcinol synthase. 2013 , 288, 2767-77	16
255	Flower colour modification of chrysanthemum by suppression of F3'H and overexpression of the exogenous Senecio cruentus F3'5'H gene. 2013 , 8, e74395	46
254	De-novo assembly of mango fruit peel transcriptome reveals mechanisms of mango response to hot water treatment. 2014 , 15, 957	49
253	Transcriptome profiling shows gene regulation patterns in a flavonoid pathway in response to exogenous phenylalanine in Boesenbergia rotunda cell culture. 2014 , 15, 984	14
252	METABOLIC PATHWAYS Production of Secondary Metabolites of Bacteria. 2014 , 561-569	11
251	Differential inductions of phenylalanine ammonia-lyase and chalcone synthase during wounding, salicylic acid treatment, and salinity stress in safflower, Carthamus tinctorius. 2014 , 34,	56
250	Soybean Seed Isoflavonoids: Biosynthesis and Regulation. 2014 , 1-21	3
249	Secondary Metabolites and Environmental Stress in Plants: Biosynthesis, Regulation, and Function. 2014 , 55-85	2
248	Type III polyketide synthase is involved in the biosynthesis of protocatechuic acid in Aspergillus niger. 2014 , 36, 2303-10	6
247	The chemical logic of plant natural product biosynthesis. 2014 , 19, 51-8	46

246	Cloning of a novel type III polyketide synthase encoded by a three-intron gene from Polygonum cuspidatum. 2014 , 23, 104-111	1
245	Effects of chitosan on the protein profile of grape cell culture subcellular fractions. 2014 , 35, 1685-92	14
244	Polyketide synthesis in tobacco plants transformed with a Plumbago zeylanica type III hexaketide synthase. 2014 , 98, 92-100	4
243	Cloning and expression analyses of the anthocyanin biosynthetic genes in mulberry plants. Molecular Genetics and Genomics, 2014 , 289, 783-93	29
242	Physiological Mechanisms and Adaptation Strategies in Plants Under Changing Environment. 2014 ,	6
241	Functional diversification of duplicated chalcone synthase genes in anthocyanin biosynthesis of Gerbera hybrida. 2014 , 201, 1469-1483	62
240	Hypericum perforatum hydroxyalkylpyrone synthase involved in sporopollenin biosynthesisphylogeny, site-directed mutagenesis, and expression in nonanther tissues. 2014 , 281, 3855-68	14
239	Structure of a modular polyketide synthase. 2014 , 510, 512-7	200
238	Molecular evolution and sequence divergence of plant chalcone synthase and chalcone synthase-Like genes. 2014 , 142, 215-25	15
237	Temporal and spatial control of gene expression in horticultural crops. 2014 , 1, 14047	64
236	Molecular genetics of naringenin biosynthesis, a typical plant secondary metabolite produced by Streptomyces clavuligerus. 2015 , 14, 178	45
235	Molecular Cloning, Characterization, and Expression Analysis of Flavanone 3-Hydroxylase (F3H) Gene during Muscadine Grape Berry Development. 2015 , 05,	О
234	Synthetic Polyketide Enzymology: Platform for Biosynthesis of Antimicrobial Polyketides. 2015 , 5, 4033-4042	13
233	Molecular cloning and expression profiling of a chalcone synthase gene from Lamiophlomis rotata. 2015 , 94, 193-205	5
232	Rapid preparation of (methyl)malonyl coenzyme A and enzymatic formation of unusual polyketides by type III polyketide synthase from Aquilaria sinensis. 2015 , 25, 1279-83	9
231	Genome sequencing of herb Tulsi (Ocimum tenuiflorum) unravels key genes behind its strong medicinal properties. 2015 , 15, 212	60
230	Molecular-genetic polymorphism of chs_H1 gene in Ukrainian hop varieties. 2015 , 49, 294-298	1
229	Chalcone synthase genes from milk thistle (Silybum marianum): isolation and expression analysis. 2015 , 94, 611-7	13

(2016-2015)

228	Structural basis for the formation of acylalkylpyrones from two Eketoacyl units by the fungal type III polyketide synthase CsyB. 2015 , 290, 5214-5225		15
227	Tandem expression in E. coli of type III PKS and P450 genes from marine Streptomyces olivaceus FXJ 7.023 gives production of phenol and indole. 2015 , 31, 541-8		4
226	Functional characterization of a chalcone synthase from the liverwort Plagiochasma appendiculatum. 2015 , 34, 233-45		30
225	Four-component		3
224	Chalcone synthase EaCHS1 from Eupatorium adenophorum functions in salt stress tolerance in tobacco. 2015 , 34, 885-94		29
223	Acylphloroglucinol Biosynthesis in Strawberry Fruit. 2015 , 169, 1656-70		22
222	Activation of salicylic acid metabolism and signal transduction can enhance resistance to Fusarium wilt in banana (Musa acuminata L. AAA group, cv. Cavendish). 2015 , 15, 47-62		21
221	Metabolic engineering of Escherichia coli for the synthesis of the plant polyphenol pinosylvin. 2015 , 81, 840-9		61
220	Uncovering the structures of modular polyketide synthases. 2015 , 32, 436-53		53
219	Cloning, characterization and expression of chalcone synthase from medicinal plant Rhus chinensis. 2015 , 24, 18-24		4
218	Characterization and Expression Analyses of Chalcone Synthase (CHS) and Anthocyanidin Synthase (ANS) Genes in Clivia miniata. 2016 , 04,		1
217	Secondary Metabolism in Amaranthus spp. IA Genomic Approach to Understand Its Diversity and Responsiveness to Stress in Marginally Studied Crops with High Agronomic Potential. 2016 ,		5
216	Genome-Wide Identification, Characterization and Expression Analysis of the Chalcone Synthase Family in Maize. 2016 , 17,		43
215	Exploiting the Biosynthetic Potential of Type III Polyketide Synthases. 2016 , 21,		40
214	Flavones: From Biosynthesis to Health Benefits. 2016 , 5,		121
213	Phylogeny and Expression Analyses Reveal Important Roles for Plant PKS III Family during the Conquest of Land by Plants and Angiosperm Diversification. <i>Frontiers in Plant Science</i> , 2016 , 7, 1312	6.2	11
212	A Novel Class of Plant Type III Polyketide Synthase Involved in Orsellinic Acid Biosynthesis from. <i>Frontiers in Plant Science</i> , 2016 , 7, 1452	6.2	22
211	Cloning and Functional Analysis of Three Chalcone Synthases from the Flowers of Safflowers Carthamus tinctorius. 2016 , 11, 1934578X1601100		2

210	Synthesis of Unnatural 2-Substituted Quinolones and 1,3-Diketones by a Member of Type III Polyketide Synthases from Huperzia serrata. 2016 , 18, 3550-3	19
209	Outer-sphere residues influence the catalytic activity of a chalcone synthase from Polygonum cuspidatum. 2016 , 6, 610-8	4
208	Molecular cloning and transgenic characterization of the genes encoding chalcone synthase and chalcone isomerase from the Tibetan herbal plant Mirabilis himalaica. 2016 , 63, 419-26	10
207	Evolutionary and functional analysis of mulberry type III polyketide synthases. 2016 , 17, 540	13
206	Enhanced pinocembrin production in Escherichia coli by regulating cinnamic acid metabolism. 2016 , 6, 32640	15
205	A Metabolic Gene Cluster in the Wheat W1 and the Barley Cer-cqu Loci Determines EDiketone Biosynthesis and Glaucousness. 2016 , 28, 1440-60	87
204	Type III polyketide synthase repertoire in Zingiberaceae: computational insights into the sequence, structure and evolution. 2016 , 226, 269-85	5
203	Ectopic expression and functional characterization of type III polyketide synthase mutants from Emblica officinalis Gaertn. 2016 , 35, 2077-90	4
202	Polyketides. 2016 , 19-129	
201	Flavonoid Biotechnology [New Ways to High-Added-Value Compounds. 2016 , 179-198	
201	Flavonoid Biotechnology [New Ways to High-Added-Value Compounds. 2016, 179-198 Chalcone synthase homologous genes cloning and expression pattern in flowering Fagopyrum tataricum Gaertn. 2016, 63, 790-799	5
	Chalcone synthase homologous genes cloning and expression pattern in flowering Fagopyrum	
200	Chalcone synthase homologous genes cloning and expression pattern in flowering Fagopyrum tataricum Gaertn. 2016 , 63, 790-799	
200 199	Chalcone synthase homologous genes cloning and expression pattern in flowering Fagopyrum tataricum Gaertn. 2016 , 63, 790-799 Functional Promiscuity of Two Divergent Paralogs of Type III Plant Polyketide Synthases. 2016 , 171, 2599-619 Molecular cloning and characterization of anthocyanin biosynthesis genes in eggplant (Solanum	22
200 199 198	Chalcone synthase homologous genes cloning and expression pattern in flowering Fagopyrum tataricum Gaertn. 2016, 63, 790-799 Functional Promiscuity of Two Divergent Paralogs of Type III Plant Polyketide Synthases. 2016, 171, 2599-619 Molecular cloning and characterization of anthocyanin biosynthesis genes in eggplant (Solanum melongena L.). 2016, 38, 1 Transcriptome-enabled discovery and functional characterization of enzymes related to (2S)-pinocembrin biosynthesis from Ornithogalum caudatum and their application for metabolic	22
200 199 198	Chalcone synthase homologous genes cloning and expression pattern in flowering Fagopyrum tataricum Gaertn. 2016 , 63, 790-799 Functional Promiscuity of Two Divergent Paralogs of Type III Plant Polyketide Synthases. 2016 , 171, 2599-619 Molecular cloning and characterization of anthocyanin biosynthesis genes in eggplant (Solanum melongena L.). 2016 , 38, 1 Transcriptome-enabled discovery and functional characterization of enzymes related to (2S)-pinocembrin biosynthesis from Ornithogalum caudatum and their application for metabolic engineering. 2016 , 15, 27 Two polyketide synthases are necessary for 4-hydroxy-5-methylcoumarin biosynthesis in Gerbera	22 21 21
200 199 198 197	Chalcone synthase homologous genes cloning and expression pattern in flowering Fagopyrum tataricum Gaertn. 2016, 63, 790-799 Functional Promiscuity of Two Divergent Paralogs of Type III Plant Polyketide Synthases. 2016, 171, 2599-619 Molecular cloning and characterization of anthocyanin biosynthesis genes in eggplant (Solanum melongena L.). 2016, 38, 1 Transcriptome-enabled discovery and functional characterization of enzymes related to (2S)-pinocembrin biosynthesis from Ornithogalum caudatum and their application for metabolic engineering. 2016, 15, 27 Two polyketide synthases are necessary for 4-hydroxy-5-methylcoumarin biosynthesis in Gerbera hybrida. 2016, 87, 548-58	22 21 21 12

192	A bifunctional type III polyketide synthase from raspberry (Rubus idaeus L.) with both chalcone synthase and benzalacetone synthase activity. 2017 , 26, 80-90	1
191	Role of Modular Polyketide Synthases in the Production of Polyether Ladder Compounds in Ciguatoxin-Producing Gambierdiscus polynesiensis and G. excentricus (Dinophyceae). 2017 , 64, 691-706	26
190	Recent Advances in the Discovery of PqsD Inhibitors as Antimicrobial Agents. 2017 , 12, 420-425	11
189	2-Alkylquinolone alkaloid biosynthesis in the medicinal plant involves collaboration of two novel type III polyketide synthases. 2017 , 292, 9117-9135	10
188	Characterization of three chalcone synthase-like genes from apple (Malus x domestica Borkh.). 2017 , 140, 125-133	19
187	Chalcone: A Privileged Structure in Medicinal Chemistry. 2017 , 117, 7762-7810	567
186	Identification and Characterization of Chalcone Synthase Gene Family Members in Nicotiana tabacum. 2017 , 36, 374-384	11
185	Identification and functional characterization of three type III polyketide synthases from Aquilaria sinensis calli. 2017 , 486, 1040-1047	14
184	Functional characterization and expression of GASCL1 and GASCL2, two anther-specific chalcone synthase like enzymes from Gerbera hybrida. 2017 , 134, 38-45	8
183	Genome-wide dissection of the chalcone synthase gene family in Oryza sativa. 2017 , 37, 1	10
182	Recent Advances in Bioactivities of Common Food Biocompounactives. 2017 , 541-594	2
181	Phenolic content, anthocyanins and antiradical capacity of diverse purple bran rice genotypes as compared to other bran colors. 2017 , 77, 110-119	22
180	Isolation and expression analysis of NtCHS6, a new chalcone synthase gene from Nicotiana tabacum. 2017 , 16, 1443-1450	4
179	Metabolic engineering of Saccharomyces cerevisiae for de novo production of dihydrochalcones with known antioxidant, antidiabetic, and sweet tasting properties. 2017 , 39, 80-89	64
178	Response of olive tree (Olea europaea L.cv. Chemlali) to infection with soilborne fungi. 2017 , 124, 153-162	4
177	Molecular architectures of benzoic acid-specific type III polyketide synthases. 2017 , 73, 1007-1019	9
176	Cloning and sequence analysis of chalcone synthase gene in Curcuma alismatifolia. 2017, 299-304	О
175	Acridone Alkaloids. 2017 , 78, 1-108	5

Structural Analysis of Flavonoid/Drug Target Complexes: Natural Products as Lead Compounds for 174 Drug Development. 2017, 05, Characterization of 3-ketoacyl-coA synthase in a nervonic acid producing oleaginous microalgae 17 173 Mychonastes afer. 2018, 31, 225-231 A unified mechanism for plant polyketide biosynthesis derived from in silico modeling. 2018, 497, 1123-1128 3 172 Structural and biochemical characterization of the plant type III polyketide synthases of the 8 171 liverwort Marchantia paleacea. 2018, 125, 95-105 Molecular analysis of anthocyanin biosynthesis pathway genes and their differential expression in 170 22 mango peel. 2018, 61, 157-166 OsPKS2 is required for rice male fertility by participating in pollen wall formation. 2018, 37, 759-773 169 22 Ectopic expression of VpSTS29, a stilbene synthase gene from Vitis pseudoreticulata, indicates STS 168 12 presence in cytosolic oil bodies. 2018, 248, 89-103 Structure and substrate specificity of Eketoacyl-acyl carrier protein synthase III from Acinetobacter 167 3 baumannii. 2018, 108, 567-577 Biosynthetic Pathway and Metabolic Engineering of Plant Dihydrochalcones. 2018, 66, 2273-2280 166 20 165 Flavonoids. 2018, 92-149 11 Condensed Tannins. 2018, 150-184 164 1 Tropinone synthesis via an atypical polyketide synthase and P450-mediated cyclization. 2018, 9, 5281 163 46 Genome-wide identification and localization of chalcone synthase family in soybean (Glycine max 162 19 [L]Merr). **2018**, 18, 325 Mechanistic basis for the evolution of chalcone synthase catalytic cysteine reactivity in land plants. 161 15 2018, 293, 18601-18612 In vitro and in silico studies of chalcone synthase variant 2 in Boesenbergia rotunda and its 160 1 substrate specificity. 2018, 42, 213-223 New Insights on Cyclization Specificity of Fungal Type III Polyketide Synthase, PKSIII in. 2018, 58, 268-277 159 Identification and Characterization of Flavonoid Biosynthetic Enzyme Genes in Salvia miltiorrhiza 158 35 (Lamiaceae). 2018, 23, A chalcone synthase gene AeCHS from Abelmoschus esculentus regulates flavonoid accumulation 19 and abiotic stress tolerance in transgenic Arabidopsis. 2018, 40, 1

156	Heterologous production of the widely used natural food colorant carminic acid in Aspergillus nidulans. 2018 , 8, 12853		26
155	Engineered Microorganisms for the Production of Food Additives Approved by the European Union-A Systematic Analysis. 2018 , 9, 1746		36
154	Molecular dissection of novel anthocyanin transcripts HsCHS and HsF3H from the calyx tissue of Hibiscus sabdariffa L 2019 , 16, 1909-1920		
153	Segmental and tandem chromosome duplications led to divergent evolution of the chalcone synthase gene family in Phalaenopsis orchids. 2019 , 123, 69-77		10
152	The biosynthetic origin of psychoactive kavalactones in kava. 2019 , 5, 867-878		31
151	The Origin and Evolution of Plant Flavonoid Metabolism. Frontiers in Plant Science, 2019, 10, 943	6.2	126
150	Control of Bird Feeding Behavior by Tannin1 through Modulating the Biosynthesis of Polyphenols and Fatty Acid-Derived Volatiles in Sorghum. 2019 , 12, 1315-1324		14
149	How structural subtleties lead to molecular diversity for the type III polyketide synthases. 2019 , 294, 15121-15136		25
148	Microbial Technology for the Welfare of Society. 2019 ,		2
147	Assembly and Annotation of a Draft Genome of the Medicinal Plant. <i>Frontiers in Plant Science</i> , 2019 , 10, 1274	6.2	18
146	Modulation of the central carbon metabolism of Corynebacterium glutamicum improves malonyl-CoA availability and increases plant polyphenol synthesis. 2019 , 116, 1380-1391		22
145	Chalcone synthase is ubiquitinated and degraded via interactions with a RING-H2 protein in petals of Paeonia 'He Xie'. 2019 , 70, 4749-4762		14
144	Organization and evolution of the chalcone synthase gene family in bread wheat and relative species. 2019 , 20, 30		5
143	In Vitro Biosynthesis of Polyphenols in the Presence of Elicitors and Upregulation of Genes of the Phenylpropanoid Pathway in Plantago ovata. 2019 , 299-344		1
142	Sneak peek of Hypericum perforatum L.: phytochemistry, phytochemical efficacy and biotechnological interventions. 2019 , 28, 357-373		11
141	Transcriptional heterologous expression of two type III PKS from the lichen Cladonia uncialis. 2019 , 18, 1437-1447		2
140	Identification of the Genes Involved in Anthocyanin Biosynthesis and Accumulation in. 2019, 10,		8
139	Polyphenolic natural products and natural product-inspired steroidal mimics as aromatase inhibitors. 2019 , 39, 1274-1293		10

138	How to Model a Metabolon. 2019, 363-385	0
137	In silico approaches illustrate the evolutionary pattern and protein-small molecule interactions of quinolone synthase from Aegle marmelos Correa. <i>Journal of Biomolecular Structure and Dynamics</i> , 3.6 2019 , 37, 195-209	O
136	Protein elicitor PeaT1 enhanced resistance against aphid (Sitobion avenae) in wheat. 2020 , 76, 236-243	9
135	Identification and evolutionary analysis of chalcone isomerase-fold proteins in ferns. 2020 , 71, 290-304	16
134	Structure of the Cannabissativa olivetol-producing enzyme reveals cyclization plasticity in type III polyketide synthases. 2020 , 287, 1511-1524	8
133	Discovery of modules involved in the biosynthesis and regulation of maize phenolic compounds. 2020 , 291, 110364	4
132	Bacterial Type III Polyketide Synthases. 2020 , 250-265	
131	Chalcone synthases (CHSs): the symbolic type III polyketide synthases. 2019 , 251, 15	11
130	Molecular cloning and characterization of chalcone synthase gene from Coelogyne ovalis Lindl. and its stress-dependent expression. 2020 , 762, 145104	5
129	Identification of chalcone synthase genes and their expression patterns reveal pollen abortion in cotton. 2020 , 27, 3691-3699	2
128	Identification and comparative expression analysis of chalcone synthase, flavanone 3-hydroxylase and dihydroflavonol 4-reductase genes in wild pomegranate (Punica granatum L.) organs. 2020 , 43, 883-896	2
127	Discovery of a previously unknown biosynthetic capacity of naringenin chalcone synthase by heterologous expression of a tomato gene cluster in yeast. 2020 , 6,	4
126	Automatic Identification of Players in the Flavonoid Biosynthesis with Application on the Biomedicinal Plant. 2020 , 9,	8
125	Identification and Characterization of a New Type III Polyketide Synthase from a Marine Yeast,. 2020 , 18,	3
124	Analysis of the Transcriptome of Polygonatum odoratum (Mill.) Druce Uncovers Putative Genes Involved in Isoflavonoid Biosynthesis. 2020 , 63, 217-228	2
123	Engineering intracellular malonyl-CoA availability in microbial hosts and its impact on polyketide and fatty acid synthesis. 2020 , 104, 6057-6065	17
122	Two Chalcone Synthase Isozymes Participate Redundantly in UV-Induced Sakuranetin Synthesis in Rice. 2020 , 21,	4
121	The genome evolution and domestication of tropical fruit mango. 2020 , 21, 60	39

120	A conserved strategy of chalcone isomerase-like protein to rectify promiscuous chalcone synthase specificity. 2020 , 11, 870	29
119	Chalcone synthase (CHS) family members analysis from eggplant (Solanum melongena L.) in the flavonoid biosynthetic pathway and expression patterns in response to heat stress. 2020 , 15, e0226537	9
118	Molecular cloning and characterization of type III polyketide synthase from. 2021 , 23, 478-490	0
117	The LRXs-RALFs-FER module controls plant growth and salt stress responses by modulating multiple plant hormones. 2021 , 8, nwaa149	11
116	Crystal structure of chalcone synthase, a key enzyme for isoflavonoid biosynthesis in soybean. 2020 ,	2
115	Metabolic engineering of Yarrowia lipolytica for liquiritigenin production. 2021 , 230, 116177	O
114	Ecotopic over-expression of PoCHS from Paeonia ostii altered the fatty acids composition and content in Arabidopsis thaliana. 2021 , 172, 64-76	0
113	Neurotrophic, anti-neuroinflammatory, and redox balance mechanisms of chalcones. 2021 , 891, 173695	5
112	Naturally occurring prenylated chalcones from plants: structural diversity, distribution, activities and biosynthesis. 2021 ,	5
111	Octaketide Synthase from Polygonum cuspidatum Implements Emodin Biosynthesis in Arabidopsis thaliana. 2021 , 62, 424-435	O
110	Harnessing the natural pool of polyketide and non-ribosomal peptide family: A route map towards novel drug development. 2021 ,	2
109	Genomic analyses provide insights into peach local adaptation and responses to climate change. 2021 , 31, 592-606	9
108	Chalcone and its analogs: Therapeutic and diagnostic applications in Alzheimer's disease. 2021 , 108, 104681	20
107	Genome Mining and Evolutionary Analysis Reveal Diverse Type III Polyketide Synthase Pathways in Cyanobacteria. 2021 , 13,	4
106	Optimum chalcone synthase for flavonoid biosynthesis in microorganisms. 2021 , 41, 1194-1208	2
105	Biosynthesis of Nature-Inspired Unnatural Cannabinoids. 2021 , 26,	3
104	Animal Fatty Acid Synthase: A Chemical Nanofactory. 2021 , 121, 9502-9553	6
103	PeBL1 of Brevibacillus laterosporus a new biocontrol tool for wheat aphid management (Sitobion avenae) in triticum aestivum. 1	4

102	Construction of an Artificial Biosynthetic Pathway for the Styrylpyrone Compound 11-Methoxy-Bisnoryangonin Produced in Engineered. 2021 , 12, 714335	2
101	Engineering of PKS Megaenzymes Promising Way to Biosynthesize High-Value Active Molecules. 1	1
100	Multi-tissue transcriptome analysis of two Begonia species reveals dynamic patterns of evolution in the chalcone synthase gene family. 2021 , 11, 17773	1
99	Polyketide synthase genes and molecular trade-offs in the ichthyotoxic species Prymnesium parvum. 2021 , 795, 148878	3
98	Global transcriptome analysis reveals dynamic gene expression profiling and provides insights into biosynthesis of resveratrol and anthraquinones in a medicinal plant Polygonum cuspidatum. 2021 , 171, 113919	2
97	Fissistiganoids A and B: two new flavonoids from the. 2021 , 1-5	1
96	Biochemistry of Polyketide Synthases. 341-372	2
95	Biosynthesis and Function of Citrus Glycosylated Flavonoids. 2011 , 67-95	2
94	Polyketide Antibiotics of Pseudomonas. 2004 , 689-722	1
93	Characterization of the Substrate Specificity of PhlD, a Type III Polyketide Synthase from Pseudomonas fluorescens. 2006 , 281, 32036-32047	2
92	Genomic analyses provide insights into peach local adaptation and responses to climate change.	1
91	Mutagenesis facilitated crystallization of GLP-1R. 2019 , 6, 996-1006	7
90	Comparative genome analysis of filamentous fungi reveals gene family expansions associated with fungal pathogenesis. 2008 , 3, e2300	140
89	Molecular and Biochemical Analysis of Chalcone Synthase from Freesia hybrid in flavonoid biosynthetic pathway. 2015 , 10, e0119054	67
88	Metatranscriptome Analysis of Fig Flowers Provides Insights into Potential Mechanisms for Mutualism Stability and Gall Induction. 2015 , 10, e0130745	16
87	Lineage-Specific Expansion of the Chalcone Synthase Gene Family in Rosids. 2015 , 10, e0133400	7
86	Molecular and functional characterization of two isoforms of chalcone synthase and their expression analysis in relation to flavonoid constituents in Grewia asiatica L. 2017 , 12, e0179155	17
85	Overexpression of chalcone synthase gene improves flavonoid accumulation and drought tolerance in tobacco.	2

84	Overexpression of chalcone synthase gene improves flavonoid accumulation and drought tolerance in tobacco.		2
83	White Marginal Picotee Formation in the Petals of Camellia japonica IIamanoura[1 2010 , 79, 207-214		10
82	Evolutionary Histories of Type III Polyketide Synthases in Fungi. 2019 , 10, 3018		14
81	cDNA Cloning and Expression Analysis of the Chalcone Synthases (CHS) in <i>Osmanthus fragrans</i>. 2017 , 07, 41-48		2
80	A Promiscuous Halogenase for the Derivatization of Flavonoids. 2021 , 26,		1
79	An Overview of the Medicinally Important Plant Type III PKS Derived Polyketides. <i>Frontiers in Plant Science</i> , 2021 , 12, 746908	6.2	4
78	"Medicinal" compounds and molecular analysis of hop genes 2006 , 52, 38-40		1
77	Molecular Biology of Plant Natural Products. 2006 , 165-202		
76	Analysis of the chalcone synthase from Humulus lupulus L. and biotechnology aspects of medicinal hops. 2011 , 48, 7-14		
75	The biosynthetic origin of psychoactive kavalactones in kava.		
74	Mechanistic basis for the evolution of chalcone synthase catalytic cysteine reactivity in land plants.		
73	Microbial Type III Polyketide Synthases. 2019 ,		
72	Type III Polyketide Synthases: Current State and Perspectives. 2019 , 183-200		1
71	Jean-Luc Ferrer (1964🛘020): structural biologist, beamline instrumentation innovator and entrepreneur. 2020 , 76, 608-611		
70	Automatic identification of players in the flavonoid biosynthesis with application on the biomedicinal plantCroton tiglium.		
69	PKS-A Clade of Oil Palm Might Play Role During Defense Against Ganoderma boninense Infection.		O
68	Functional and Structural Investigation of Chalcone Synthases Based on Integrated Metabolomics and Transcriptome Analysis on Flavonoids and Anthocyanins Biosynthesis of the Fern. <i>Frontiers in Plant Science</i> , 2021 , 12, 757516	6.2	O
67	Genome-wide analysis of chalcone synthase (CHS) family from eggplant (Solanum melongena L.) in flavonoid biosynthetic pathway and expression pattern in response to heat stress.		

66 Clover. **2007**, 337-356

65	Transcriptome analysis of an albino mutant inHaworthia cooperivar.pilifera.	
64	The crystal structure of benzophenone synthase from Garcinia mangostana L. pericarps reveals the basis for substrate specificity and catalysis. 2020 , 76, 597-603	3
63	Identification of amino acid residues important in the cyclization reactions of chalcone and stilbene synthases. 2000 , 350 Pt 1, 229-35	23
62	Antitubercular and antioxidant activities of hydroxy and chloro substituted chalcone analogues: Synthesis, biological and computational studies. 2022 , 15, 103581	3
61	Bibenzyl synthesis in Cannabis sativa L. 2021 ,	1
60	Construction of an Artificial Biosynthetic Pathway for Zingerone Production in Using Benzalacetone Synthase from. 2021 , 69, 14620-14629	0
59	Transcriptome sequencing and flavonoid metabolism analysis in the leaves of three different cultivars of Acer truncatum 2021 , 171, 1-13	O
58	Study on Kinetics of Trans-Resveratrol, Total Phenolic Content, and Antioxidant Activity Increase in Vine Waste during Post-Pruning Storage. 2022 , 12, 1450	O
57	Improving (2S)-naringenin production by exploring native precursor pathways and screening higher-active chalcone synthases from plants rich in flavonoids 2022 , 156, 109991	O
56	Molecular characterization and differential expression of an aromatic heptaketide producing type III plant polyketide synthase from Himalayan rhubarb. 1	
55	Comparative Molecular Mechanisms of Biosynthesis of Naringenin and Related Chalcones in Actinobacteria and Plants: Relevance for the Obtention of Potent Bioactive Metabolites 2022 , 11,	1
54	Identification of a diarylpentanoid-producing polyketide synthase revealing an unusual biosynthetic pathway of 2-(2-phenylethyl)chromones in agarwood 2022 , 13, 348	5
53	Genome-Wide Identification and Expression Profiles of 13 Key Structural Gene Families Involved in the Biosynthesis of Rice Flavonoid Scaffolds 2022 , 13,	O
52	Bioinformatic and functional analyses reveal the expansion base of the rice polyketide synthase III superfamily and the synergistic roles of OsPKS1 and OsPKS2 in male reproduction. 2022 , 2, 9-17	
51	Biochemistry and Molecular Basis of Intracellular Flavonoid Transport in Plants 2022 , 11,	3
50	Chalcones and Flavones as Multifunctional Anticancer Agents- A Comprehensive Review. 2022, 18,	О
49	Data_Sheet_1.FASTA. 2020 ,	

(2022-2020)

48	Data_Sheet_2.FASTA. 2020 ,		
47	Data_Sheet_3.docx. 2020 ,		
46	Data_Sheet_4.fasta. 2020 ,		
45	Data_Sheet_5.zip. 2020 ,		
44	Data_Sheet_6.zip. 2020 ,		
43	Data_Sheet_7.pdf. 2020 ,		
42	Data_Sheet_8.zip. 2020 ,		
41	Data_Sheet_9.pdf. 2020 ,		
40	Table_1.xlsx. 2020 ,		
39	DataSheet_1.docx. 2019 ,		
38	DataSheet_2.xlsx. 2019 ,		
37	DataSheet_3.xlsx. 2019 ,		
36	DataSheet_4.xlsx. 2019 ,		
35	DataSheet_5.xlsx. 2019 ,		
34	DataSheet_7.xlsx. 2019 ,		
33	Image_1.tif. 2019 ,		
32	A Chalcone Synthase-Like Bacterial Protein Catalyzes Heterocyclic C-Ring Cleavage of Naringenin to Alter Bioactivity Against Nuclear Receptors in Colonic Epithelial Cells.		О
31	AfCHIL, a Type IV Chalcone Isomerase, Enhances the Biosynthesis of Naringenin in Metabolic Engineering. <i>Frontiers in Plant Science</i> , 2022 , 13,	6.2	1

30	Chemical basis of cysteine reactivity and specificity: Acidity and nucleophilicity. 2022, 19-58		1
29	Polyketide synthases (PKSs) of secondary metabolism: in silico identification and characterization in orchids. <i>Journal of Biomolecular Structure and Dynamics</i> , 1-13	3.6	
28	Structure, function, and engineering of plant polyketide synthases. <i>Methods in Enzymology</i> , 2022 ,	1.7	
27	A survey of transcriptome complexity using full-length isoform sequencing in the tea plant Camellia sinensis. <i>Molecular Genetics and Genomics</i> ,	3.1	O
26	Genome-Wide Classification and Evolutionary Analysis Reveal Diverged Patterns of Chalcone Isomerase in Plants. <i>Biomolecules</i> , 2022 , 12, 961	5.9	
25	Interaction of PKR with STCS1 : an indispensable step in the biosynthesis of lunularic acid in Marchantia polymorpha.		1
24	The Type III polyketide synthase supergene family in plants: complex evolutionary history and functional divergence.		
23	Molecular and structural characterization of a promiscuous chalcone synthase from the fern species Stenoloma chusanum.		
22	Catalytic innovation underlies independent recruitment of polyketide synthases in cocaine and hyoscyamine biosynthesis. 2022 , 13,		O
21	Delineating biosynthesis of Huperzine A, A plant-derived medicine for the treatment of Alzheimer's disease. 2022 , 60, 108026		O
20	Low temperature modifies seedling leaf anatomy and gene expression in Hypericum perforatum. 13,		0
19	Evolution and molecular basis of substrate specificity in a 3-ketoacyl-CoA synthase gene cluster from Populus trichocarpa. 2022 , 102496		1
18	Engineering a plant polyketide synthase for the biosynthesis of methylated flavonoids.		О
17	Biosynthesis Investigations of Terpenoid, Alkaloid, and Flavonoid Antimicrobial Agents Derived from Medicinal Plants. 2022 , 11, 1380		1
16	Genome-Wide Identification, Characterization and Expression Analysis of Mango (Mangifera indica L.) chalcone synthase (CHS) Genes in Response to Light. 2022 , 8, 968		1
15	Engineered biosynthesis of plant polyketides by type III polyketide synthases in microorganisms. 10,		O
14	Analysis of Flavonoid Metabolism during the Process of Petal Discoloration in Three Malus Crabapple Cultivars. 2022 , 7, 37304-37314		О
13	An up-to-date review: differential biosynthesis mechanisms and enrichment methods for health-promoting anthocyanins of citrus fruits during processing and storage. 1-27		O

CITATION REPORT

12	Genome-Wide Identification, Characterization, and Expression Analysis of CHS Gene Family Members in Chrysanthemum nankingense. 2022 , 13, 2145	Ο
11	Reshaping the 2-Pyrone Synthase Active Site for Chemoselective Biosynthesis of Polyketides.	Ο
10	Reshaping the 2-Pyrone Synthase Active Site for Chemoselective Biosynthesis of Polyketides.	0
9	Riboswitch-guided chalcone synthase engineering and metabolic flux optimization for enhanced production of flavonoids. 2023 , 75, 143-152	O
8	Anthocyanins Profiling Analysis and RNA-Seq Revealed the Dominating Pigments and Coloring Mechanism in Cyclamen Flowers. 2022 , 11, 1721	0
7	Leveraging yeast to characterize plant biosynthetic gene clusters. 2022 , 102314	O
6	Recent Updates on Source, Biosynthesis, and Therapeutic Potential of Natural Flavonoid Luteolin: A Review. 2022 , 12, 1145	3
5	Molecular characterization of a chalcone synthase gene RhCHS from Rhododendron I hybridum Hort. 2023 , 857, 147176	O
4	Global transcriptome and gene co-expression network analyses reveal regulatory and non-additive effects of drought and heat stress in grapevine. 14,	О
3	Identification and Functional Characterization of Fungal Chalcone Synthase and Chalcone Isomerase. 2023 , 86, 398-405	0
2	Polyketides. 2023 , 201-284	0
1	Two haplotype-resolved genomes of highly heterozygous AAB allotriploid bananas provide insights into subgenome asymmetric evolution and banana wilt control.	Ο