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Authors also cover the biosynthesis of rare secondary products and the function and application of proteins for plant protection and therapeutic use. The emphasis throughout is on the relationship between fundamental aspects of biosynthesis and structure-function relationships, and application of this knowledge to the redesigning and altering of plant products by molecular genetics.

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Biosynthesis and Manipulation of Plant Products by Donald ...

Chalcone synthase (CHS) is a plant-specific type III polyketide synthase catalyzing condensation of 4-coumaroyl-CoA with three molecules of malonyl-CoA. Surprisingly, it was demonstrated that S338V mutant of *Scutellaria baicalensis* CHS produced octaketides SEK4/SEK4b from eight molecules of malonyl-CoA.

Engineered Biosynthesis of Plant Polyketides: Manipulation ...

First, there is a desire to manipulate the overall composition of the harvested parts of plants in nutritionally and commercially useful ways. Starch is a major component of many of these harvested parts, and an understanding of the regulation of its accumulation will aid attempts to make directed changes in composition.

Starch biosynthesis and the potential for its manipulation ...

Proteins catalysing the addition of many of the linkages in xylan have recently been identified. Xylan biosynthesis involves a terminal oligosaccharide at the reducing end which might act as a primer or terminator (York and O'Neill, 2008). This oligosaccharide is not found in xylan from all plant species and consequently it is unclear whether it is essential for xylan synthesis,

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or whether in some species the oligosaccharide could be removed from the mature xylan.

Secondary cell walls: biosynthesis and manipulation ...
Plants, fungi, and microorganisms are equipped with biosynthesis machinery for producing thousands of secondary metabolites. These compounds have important functions in nature as a defence against predators or competitors as well as other ecological significances.

Flavonoid biosynthetic pathways in plants: Versatile ...
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Considering the importance of carotenoids for industry, human health and plant development, emphasis has been given to targeted manipulation of carotenoid biosynthesis in higher plants. In recent years, the carotenoid biosynthetic pathway in higher plants including Arabidopsis, maize, rice, potato, tomato and canola has successfully been engineered through transgenic approaches.

Carotenoid Biosynthesis and Regulation in Plants
Genetic manipulation of alkaloid accumulation in

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Nicotiana plants. The complete knockout of a pair of functionally redundant genes, NtERF189 and NtERF199, led to drastic reductions in the levels of tobacco alkaloids without having major effects on plant growth (Fig. 6, Supplementary Fig. S10).

Genetic Manipulation of Transcriptional Regulators Alters ...

Most plants have both forms, the heteromeric form in plastids, in which de novo fatty acids are synthesized, and the homomeric form in cytosol. This review focuses on the structure and regulation of plant heteromeric ACCase and its manipulation for plant breeding. References (76) Data could not be acquired.

Plant Acetyl-CoA Carboxylase: Structure, Biosynthesis ...

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Biosynthesis and Manipulation of Plant Products by ... Introduction Plants synthesise a huge variety of fatty acids although only a few are major and common constituents. Broadly speaking, long-chain fatty acids are synthesised de novo from small precursors ultimately derived from photosynthate. Two enzyme systems are utilised, acetyl-CoA carboxylase and fatty acid synthase (Fig. 1).

Plant Fatty Acid Synthesis

As one of the most ubiquitous groups of all plant phenolics, PAs are synthesized via the phenylpropanoid

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and the flavonoid pathways, and are widespread throughout the plant kingdom, presenting diverse biological and biochemical activities, including protection against predation (herbivorous animals) and pathogen attack (both bacteria and fungal), as well as restricting the growth of neighboring plants [3,4,5,6].

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Terpenoids are structurally diverse and the most abundant plant secondary metabolites, playing an important role in plant life through direct and indirect plant defenses, by attracting pollinators and through different interactions between the plants and their environment.

Volatile terpenoids: multiple functions, biosynthesis ...

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