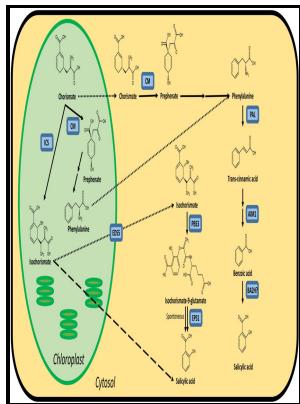


Seed storage compounds - biosynthesis, interactions, and manipulation

Clarendon Press - Ectopic expression of AtDGAT1 , encoding diacylglycerol O

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Boosting the biosynthesis of betulinic acid and related triterpenoids in *Yarrowia lipolytica* via multimodular metabolic engineering

AFLP-based molecular characterization of an elite germplasm collection of *Jatropha curcas* L. Domestication and the storage starch biosynthesis pathway: signatures of selection from a whole sorghum genome sequencing strategy. The products were inserted into the NotI site of plasmid pRS416, obtaining pRS416-C serious plasmids CCD expression plasmids pRS416-C-01-04, Table ; Additional file :Figure S2.

[PDF] Biosynthesis, function and metabolic engineering of plant volatile organic compounds.

Most of ttgl-13 g4HA- TTG1 transformants displayed the seed phenotypes like wild-type plants Supplementary Fig. Stable GUS expression was checked randomly in the cultures, at various developmental stages for validating the strength of kanamycin selection in recovery of transgenic plants. Direct upregulation of TAG biosynthesis in seeds and vegetative tissues through overexpression of the DGAT1 could enhance the energy density of the biomass, making significant impact on biofuel production.

The Biosynthesis of Starch Granules

Crocin production in fed-batch fermentation. In potato, tuber-specific silencing of ϵ -CYC resulted in increased levels of β -carotene up to 14—fold , with two transgenic lines showing slight increases in lutein 1.

Carotenoids in Vegetables: Biosynthesis, Occurrence, Impacts on Human Health, and Potential for Manipulation

We further generated g4HA- TTG1 SK11:SK11 E292K -GFP by crossing representative ttgl-13 g4HA- TTG1 1-1 and SK11:SK11 E292K -GFP 5-1 lines, and detected in vivo interaction between 4HA-TTG1 and SK11 E292K-GFP by co-immunoprecipitation analysis on protein extracts from g4HA- TTG1 SK11:SK11 E292K -GFP siliques 4 days after pollination Fig. All the titers presented in this research were based on the volume of the fermentation media.

Ectopic expression of AtDGAT1 , encoding diacylglycerol O

Betulinic acid derivatives as HIV-1 antivirals.

Site

Scale bars, 200 μm To monitor the detailed expression patterns of SK11 and SK12, we transcriptionally fused the 2. Protein extracts were incubated with anti-HA agarose beads A2095, Sigma at 4 °C for 2 h, and then washed four times by extraction buffer. ACL1 and ACL2 encode ATP citrate lyase, which can directly increase acetyl-CoA levels; PXA1, MFE1, PEX10, POT1, and TGL3 in the β -oxidation pathway are responsible for the catabolism of fatty acids to acetyl-CoA.

[PDF] Biosynthesis, function and metabolic engineering of plant volatile organic compounds.

FAME analysis was performed on Varian 450-GC Varian Capillary Column CP-SiL8 CB, 30 m 0. A 1- μL sample was injected by AOC-20i+s with a split ratio of 10. In contrast, Bikinin treatment almost had no effect on seed coat color and fatty acid levels of ttg1-13 Fig.

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