Tropane alkaloid production by Datura

Leicester Polytechnic - Frontiers

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Influence of minerals and elicitation on Datura stramonium L. tropane alkaloid production: Modelization of the in vitro biochemical response

The modelization of different minerals effects showed a response to elicitation only after the 8th day of cultivation. The amino acid sequences were deduced with help of ORFinder and their corresponding theoretical molecular weights were calculated by Vector NTI software. An ML for the sum of atropine and scopolamine is not given.

Studies on the biosynthesis of tropane alkaloids in Datura stramonium L. transformed root cultures : 1. The kinetics of alkaloid production and the influence of feeding intermediate metabolites

The phosphoglycerate kinase gene PGK served as the internal reference. The scopolamine content in S. The occurrence and properties of putrescine N-methyltransferase in tobacco roots.

Tropane alkaloid production in Datura stramonium suspension cultures: Elicitor and precursor effects, Biotechnology and Bioengineering

. Microbial biosynthesis platforms can facilitate the discovery of tropane alkaloid derivatives as new therapeutic agents for neurological disease and, once scaled, enable robust and agile supply of these essential medicines.

The Biosynthesis of Tropane and Tobacco Alkaloids in Datura and Nicotiana Transformed Root Cultures

The relative gene expression levels were detected by real-time quantitative PCR qPCR in the leaves, stems, roots, transgenic, and non-transgenic hairy root cultures of S.

Tropane alkaloid production in transformed root cultures of Brugmansia candida.

The results showed that increasing of nitrate concentration led to the reduction of the alkaloids. Datura side effects: Datura is a poisonous plant, so it should be taken only after consultation with experienced physicians.

Production of tropane alkaloids in cultured cells of Hyoscyamus niger

MeJ was the best elicitor, displaying a 25-fold increase in h6h expression level, not affecting the expression of the other three genes analyzed, and it appears to possibly stimulate the phenylpropanoids branch of the tropane alkaloid pathway. Moreover, the adjusted model, of first degree, was not predictably beyond the experimental domain.

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