

## PLANT SECONDARY METABOLISM ENGINEERING%0A

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[Plant secondary metabolism - Wikipedia](#)  
Secondary metabolism produces a large number of specialized compounds (estimated 200,000) that do not aid in the growth and development of plants but are required for the plant to survive in its environment.

[Plant Secondary Metabolism Engineering | SpringerLink](#)

In *Plant Secondary Metabolism Engineering: Methods and Applications*, expert researchers provide detailed practical information on some of the most important methods employed in the engineering of plant secondary metabolism pathways and in the acquisition of essential knowledge in performing this activity, including the significant advances and emerging strategies.

[Genetic Engineering of Plant Secondary Metabolism' secondary metabolites of pharmaceutical importance, both by intact plants and by plant cell cultures. The commercial production of a pharmaceutical substance by plant cell culture has already been realized on an industrial scale in the case of shikonin, a naphthoquinone pigment with antibacterial, antiphlogistic, and wound-healing](#)  
[Secondary Metabolite - an overview | ScienceDirect Topics](#)

Plant secondary metabolites are often stored in vacuoles, which makes the continuous production of secondary metabolites by plant tissue cultures difficult. Secondary metabolites are usually extracted from lyophilized plant tissues, their harvest is destructive to the culture and therefore limits the potential productivity of an industrial scale process.

[\(PDF\) Functions of rol genes in plant secondary metabolism.](#)

A new function of the rol genes in plant-Agrobacterium interaction became apparent with the discovery that these genes are potential activators of secondary metabolism in transformed cells from

[Plant Cells - Secondary Metabolite Heterogeneity and Its ...](#)

[Plant Cells - Secondary Metabolite Heterogeneity and Its Manipulation](#). Enviado por Khanh Pham. Direitos autorais: Attribution Non-Commercial (BY-NC) Baixe no formato PDF, TXT ou leia online no Scribd. Sinalizar por conteo inapropriado. Baixar. Salvar. [Plant Cells - Secondary Metabolite Heterogeneity a para depois. salvar](#) [Metabolic Engineering of Plant Secondary Metabolism ...](#)

Plant secondary metabolism is an economically important

source of fine chemicals, such as drugs, insecticides, dyes, flavours, and fragrances. Moreover, important traits of plants such as taste, flavour, smell, colour, or resistance against pests and diseases are also related to secondary metabolites.

(PDF) Plant secondary metabolites: a review - ResearchGate

The focus of the present review is the application of tissue culture technology for the production of some others important plant secondary metabolites. The present communication deals the brief

Secondary Metabolites - Plant physiology

SECONDARY METABOLITES A4-3 nyl diphosphate (IPP)<sup>o</sup>. IPP is the activated five-carbon building block of terpenes. IPP can also be formed from intermediates of glycolysis