

## PLANT SECONDARY METABOLISM ENGINEERING%0A

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Plant secondary metabolism - Wikipedia  
Plant secondary metabolism. Well known specialized compounds include alkaloids, polyphenols including flavonoids, and terpenoids. Humans use quite a lot of these compounds, or the plants from which they originate, for medicinal and nutraceutical purposes.

Engineering Plant Secondary Metabolism in Microbial ...

Secondary metabolites are broadly defined as natural products synthesized by an organism that are not essential to support growth and life. The plant kingdom manufactures over 200,000 distinct chemical compounds, most of which arise from specialized metabolism. While these compounds play important

Plant Secondary Metabolism - an overview | ScienceDirect ...

Plant secondary metabolites are the most valuable phytochemicals of plant secondary metabolism and possess sufficient chemical or structural complexity so that artificial synthesis is difficult or not currently possible.

Metabolic Engineering of Plant Secondary Metabolism: R ...

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Plant secondary metabolism is an economically important source of fine chemicals, such as drugs, insecticides, dyes, flavours, and fragrances.

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.

Metabolic Engineering of Plant - LU

In this book we aim at giving a general overview on metabolic engineering of plant secondary metabolism, and show by a series of reviews the progress made in applying molecular biology to alter the production of certain compounds.

Plant Secondary Metabolism | David S. Seigler |

### Springer

Phytochemistry, 53 (2000) In conclusion, David Seigler has produced an outstanding textbook on plant secondary metabolism which should have a place in the library of every botanist, pharmacist, phytochemist, ecologist and biochemist or anybody interested in the application and utilisation of secondary metabolites in ecology, agriculture, biotechnology or medicine.

### Secondary Metabolism | SpringerLink

Secondary metabolites (hence secondary metabolism): a metabolic intermediate or product, found as a differentiation product in restricted taxonomic groups, not essential to growth and life of the producing organism, and biosynthesized from one or more general metabolites by a wider variety of pathways than is available in general metabolism.

### Secondary Metabolite - an overview | ScienceDirect Topics

Secondary metabolites are found expressed in various combinations in different parts of the plant (leaves, roots, shoots, bark), at different stages of growth (seedling, seed, plantlet, mature tree), under different environmental pressures (invasive microbes, herbivores), in numerous combinations of ways by different classes of plants.

### Plant Secondary Metabolism Engineering | Download eBook ...

Description : 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. The genetic modification of plants is feasible nowadays. What does the **Classification of Secondary Metabolites: How Plants and ...**

Plants produce a variety of compounds that can be divided into primary metabolites and secondary metabolites. Primary metabolites are essential for the survival of the plant and include sugars, proteins and amino acids.

### Secondary metabolite - Wikipedia

Secondary metabolite. Secondary metabolites are organic compounds produced by plants which are not directly involved in the normal growth, development, or reproduction of the organism. Unlike primary metabolites, absence of secondary metabolites does not result in immediate death, but rather in long-term impairment

### Secondary Metabolites: Biochemistry and Role in Plants

Main Groups of Secondary Metabolites in Plants 29,000 terpenes- derived from the C5 precursor isopentenyl diphosphate (IPP) 12,000 alkaloids- derived from amino acids

(PDF) Plant secondary metabolites: a review - ResearchGate

Plant cell culture technologies were introduced at the end of the 1960's as a possible tool for both studying and producing plant secondary metabolites. Different strategies, using an in vitro