

Organic Chemistry Of Secondary Plant Metabolism

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Plant secondary metabolites have been a fertile area of chemical investigation for many years, driving the development of both analytical chemistry and of new synthetic reactions and methodologies. The subject is multi-disciplinary with chemists, biochemists and plant scientists all contributing to our current understanding. In recent years there has been an upsurge in interest from other disciplines, related to the realisation that secondary metabolites are dietary components that may have a considerable impact on human health, and to the development of gene technology that permits modulation of the contents of desirable and undesirable components. Plant Secondary Metabolites: Occurrence, Structure and Role in the Human Diet addresses this wider interest by covering the main groups of natural products from a chemical and biosynthetic perspective with illustrations of how genetic engineering can be applied to manipulate levels of secondary metabolites of economic value as well as those of potential importance in diet and health. These descriptive chapters are augmented by chapters showing where these products are found in the diet, how they are metabolised and reviewing the evidence for their beneficial bioactivity.

Plant Secondary Metabolism presents a basic understanding of the origin of the compounds, the nature of the precursors involved, and the basic reactions, mechanisms, and stereochemistry. The origin of groups of secondary metabolites is linked to evolutionary principles, and their biological activity is viewed in a context of chemical ecology. Topics are treated comprehensively, enabling the reader to understand not only a particular group of compounds, but also how each group fits into the whole. In addition, the text allows readers to systematically survey various secondary metabolites and gain a quick working knowledge, which can be applied to problems in a particular field. Those researchers and students who will be most intrigued by this publication's broad overview on plant secondary metabolites come from a diverse range of disciplines, including agronomy, anthropology, biochemistry, biology, botany, chemistry, ecology, entomology, food science, forestry, geology, horticulture, pharmacognosy, plant biology, plant sciences, toxicology, and zoology.

It has been more than ten years since the first edition of this book was published. During this time, our understanding of the interactions between plants and the animals that consume them, as mediated by secondary compounds (allelochemicals) of plants, has grown dramatically. In the Herbivores: Their Interactions with Secondary Plant Metabolites, Second Edition, only those areas of research where significant progress has been made since 1979 are included, and most of the contributing authors are new. This edition has been split into two volumes due to the vast amount of new material that has been generated on this subject. Both volumes will be of interest to evolutionary biologists, agriculturists, chemists, biochemists, physiologists, and ecologists. Volume 1, provides an exhaustive update and review of the chemical and biochemical bases for the role and function of allelochemicals in their defense against herbivores. Volume 2, scheduled for publication in April 1992, provides a current update of the research on the ecological roles and evolutionary nature of secondary plant metabolites in their interactions among plants and as protective agents against environmental stresses such as consumption by herbivores.

This book consists of an introductory overview of secondary metabolites, which are classified into four main sections: microbial secondary metabolites, plant secondary metabolites, secondary metabolites through tissue culture technique, and regulation of secondary metabolite production. This book provides a comprehensive account on the secondary metabolites of microorganisms, plants, and the production of secondary metabolites through biotechnological approach like the plant tissue culture method. The regulatory mechanisms of secondary metabolite production in plants and the pharmaceutical and other applications of various secondary metabolites are also highlighted. This book is considered as necessary reading for microbiologists, biotechnologists, biochemists, pharmacologists, and botanists who are doing research in secondary metabolites. It should also be useful to MSc students, MPhil and PhD scholars, scientists, and faculty members of various science disciplines.

The Biochemistry of Plants: A Comprehensive Treatise, Volume 7: Secondary Plant Products focuses on the biochemistry of secondary compounds, including tissue culture and differentiation, complexes, and plant systematics. The selection first elaborates on the physiological roles of secondary natural products, tissue culture and the study of secondary natural products, and turnover and degradation of secondary natural products. Discussions focus on degradative reactions of nitrogenous and phenolic compounds, concept of turnover of secondary products, and plant-vertebrate interactions. The text then elaborates on secondary plant products and cell and tissue differentiation; compartmentation in natural product biosynthesis by multienzyme complexes; and secondary metabolites and plant systematics. The manuscript examines the stereochemical aspects of natural products biosynthesis, nonprotein amino acids, and amines. Topics include tryptamines, phenethylamines, and histamine, nonprotein amino acids as analogues and antimetabolites, chemistry and biogenesis, and nonprotein amino acids as indexes for chemotaxonomy. The book also tackles glycosylation and glycosidases; transmethylation and demethylation reactions in the metabolism of secondary plant products; and oxygenases and the metabolism of plant products. The selection is a vital reference for researchers interested in the biochemistry of secondary compounds.

It is impossible in a single volume to deal comprehensively with all classes of secondary plant compounds. In the earlier series of this Encyclopedia emphasis was laid on the isoprenoids and plant phenols. While these compounds have not been neglected in the present volume we have attempted to achieve a more balanced presentation by drawing attention to the importance of nitrogenous secondary metabolites such as the alkaloids, amines and non-protein amino acids. Most of the compounds or groups of compounds included in Volume 8 are of restricted distribution within the plant kingdom and wherever possible we have provided information concerning their chemistry, biochemistry, taxonomic significance and probable ecological roles. Secondary compounds cannot be defined in terms of restricted distribution, however, nor can they be defined without reference to the plants in which they occur, as it is possible that a given compound occurring in two species may have a primary role in one and not in the other. As our knowledge of biochemistry increases we shall no doubt find it necessary to revise our ideas concerning the roles of a great many of the compounds which are found in plants.

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