



Editorial

# Recent Advances in Plant–Insect Interactions

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Plant–insect interaction is a fast-developing research field that continues to increase the interest of numerous scientists, many of whom come from heterogeneous backgrounds. This variety reflects the complexity and the multifaceted associations from which plants and insect interactions may originate.

Mutualism, pollination, and biotrophy boost the co-evolution of plant and insect responses. In the case of antagonistic associations, plants have evolved defenses against various insect feeding strategies, which are counterbalanced by the ability of insects to detoxify plant chemicals or to react specifically to plant compounds. The success of plants in withstanding insect herbivory depends on their ability to quickly recognize and decipher the incoming signal and adequately respond to a wide array of attacking herbivores. Whilst this topic has been widely investigated, less attention has been paid to how insects use plant signals to their own advantage to detect high-quality food, choose where to lay their eggs, or find their prey.

Current research on plant–insect interactions has mainly focused on genomics and proteomics, which are late events induced by biotic stress. Early events, within the first seconds to minutes, are responsible for the recognition and triggering of the signal transduction pathways, preceding both genomic and proteomic responses. For both plants and insects, sensing and communication are key features that can improve fitness and grant survival in contrasting environments.

Understanding how plants counteract herbivore aggression equals our understanding of insect herbivores' defense against plant countermeasures. In this Special Issue, we explore the genomics and metabolomics of plant–insect interactions with a collection of 19 papers focusing on the effects of some of the most devastating herbivores on their host plants, including planthoppers, thrips, and aphids, among others.

## 1. Overview of Plant–Insect Interaction

Gen-ichiro Arimura and co-workers focus on the nature of the transcriptional regulation of the jasmonic acid (JA)-responsive plant defensin gene *PDF1.2* and abscisic acid (ABA)-responsive UDP-D-glucuronate 4-epimerase 6 (*GEA6*) in *Arabidopsis thaliana* [1]. This paper introduces transcriptional reprogramming in the defense response against herbivores in higher plants, which is further and deeply elaborated by the review paper of Biao Jin and co-workers [2]. The review summarizes plants' interactions with herbivores from early events involved in the perception of physical and chemical stimuli—involving both membrane potential variations and the triggering of secondary messengers such as  $\text{Ca}^{2+}$  and  $\text{H}_2\text{O}_2$ —to the activation of phytohormone pathways and the attraction of herbivores' predators through the emission of herbivore-induced volatile organic compounds (HIVOCs). This review introduces several aspects that are deeply explored in the papers comprising this Special Issue.



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# Recent Advances In The Chemistry Of Insect Control I

## No 53

**Rachel Sandford**



## **Recent Advances In The Chemistry Of Insect Control I No 53:**

*Recent Advances in the Chemistry of Insect Control II* L. Crombie, Royal Society of Chemistry (Great Britain). Fine Chemicals and Medicinals Group, Society of Chemical Industry (Great Britain). Pesticides Group, 1990 This book is the most up to date account of the chemistry of insect control available and covers advances made in the subject since the previous edition was published in 1985 It presents an authoritative view of scientific endeavour vital to the preservation of the world's food supplies and looks at new approaches to the problem of insect resistance the emergence of new insect types and the sharpening in specificity of action within the more familiar groups It also looks at innovative attempts to deliver insecticidal gene products to pests through genetic engineering *Recent Advances in the Chemistry of Insect Control II* contains contributions from 18 authors all experts in their particular fields and is divided into four major themes covering future trends in insecticides invention and optimisation of insecticides the isolation and synthesis of insecticidal natural products and biorational approaches to insecticides

**Studies in Natural Products Chemistry** Atta-ur Rahman, 2013-10-22 *Studies in Natural Products Chemistry Volume 12 Stereoselective Synthesis Part H* reviews the stereoselective synthetic and mechanistic chemistry of bicyclomycin It discusses chemical studies of the taxane diterpenes the synthetic methodology for 2 amino alcohols of biological interest and the synthesis and structure of hydroxylated indolizidines Some of the topics covered in the book are the synthetic routes to the oxahydrindene subunit of the avermectin milbemycin family of antiparasitic agents isolation structure elucidation biosynthesis and biological activity of the avermectins two stage coupling process of macrolide antibiotics synthesis and synthesis of the rifamycin S ansa chain compound The complete synthesis of erythromycin A is also covered The role of isocyanides in the synthesis of beta lactam antibiotics and the characteristics of the beta lactam antibiotics are discussed The development of an A Ring annulation strategy for taxane synthesis is also presented A chapter is devoted to the advances in the synthesis of tumor promoting diterpenes The book can provide useful information to chemists biologists students and researchers

**Ivermectin and Abamectin** William C. Campbell, 2012-12-06 Ivermectin and abamectin members of the avermectin family of compounds were introduced to the market in the 1980 s as a veterinary antiparasitic drug and agricultural pesticide respectively Their acceptance and commercial success have been remarkable both are highly effective and in worldwide use The efficacy of ivermectin in river blindness has expanded the interest in its use in human medicine In response to the intense scientific and industrial interest in ivermectin and abamectin and the likelihood that they will be forerunners of an expanding family of drugs this comprehensive monograph satisfies the need for a review and synthesis of current knowledge about the use of these substances in crop protection as well as in cattle sheep swine horses dogs cats birds fish reptiles and in man This overview presents chemical biochemical and microbiological data as well as pharmacological safety and environmental aspects and covers practical use of the compounds as antiparasitic and pesticide agents as well as the available safety data that have emerged from the clinical experience with human applications

**Agrochemicals from Natural Products** C.R.A. Godfrey,1994-11-17 Offers a thorough overview of the important agricultural applications of both natural products and synthetic compounds derived from natural products presenting detailed information on the isolation structural studies biological activity and toxicology of these compounds The expanding area of insecticidal natural products is highlighted

**Wolf Prize In Agriculture** Ilan Chet,2009-05-04 This specially compiled one of a kind volume contains exemplary contributions from Wolf Prize laureates in agriculture There is no higher prize than the Wolf Prize Thus the reader has the opportunity to learn from the very top in various aspects of this field Indeed the book includes a list of publications and the most important papers in plant and animal breeding genetics biochemistry and plant protection biotechnology as well as chemistry and the physics of soils In this volume one can learn about the developments in particular fields in agriculture at the highest level through the scientific activities of its world class contributors

**Regulating Pesticides in Food** National Research Council,Board on Agriculture,Committee on Scientific and Regulatory Issues Underlying Pesticide Use Patterns and Agricultural Innovation,1987-02-01 Concern about health effects from exposure to pesticides in foods is growing as scientists learn more about the toxic properties of pesticides The Delaney Clause a provision of the Food Drug and Cosmetic Act prohibits tolerances for any pesticide that causes cancer in test animals or in humans if the pesticide concentrates in processed food or feeds This volume examines the impacts of the Delaney Clause on agricultural innovation and on the public s dietary exposure to potentially carcinogenic pesticide residues Four regulatory scenarios are described to illustrate the effects of varying approaches to managing oncogenic pesticide residues in food

**Advances in the Chemistry of Insect Control III** G. G. Briggs,Royal Society of Chemistry (Great Britain). Fine Chemicals and Medicinals Group,Society of Chemical Industry (Great Britain). Pesticides Group,1994 This book provides a wealth of fascinating chemistry not documented elsewhere Readers will find much of interest in this illuminating volume

**Synthesis and Chemistry of Agrochemicals II** Don R. Baker,1991 This new volume explores the science of agricultural chemistry with studies covering the entire spectrum of herbicides plant growth regulators insecticides insect pheromones acaricides and agricultural fungicides Its two primary objectives are to provide chemists with integrated accounts of agrochemical discovery synthesis and development and to offer coherent updates on the current state of the discipline The 46 chapters of this volume are divided into four sections covering sulfonylurea herbicides other weed and plant control methods control of insects acarids and nematodes and control of fungi

Report - Rothamsted Experimental Station Rothamsted Experimental Station,1985

**Plant Secondary Metabolism** David S. Seigler,1998-12-31 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 *Entomology Abstracts* ,1986 Report Rothamsted Experimental Station,1984 Reports for 1908 1929 include Supplement to the Guide to the experimental plots

**Index of Conference Proceedings** British Library. Document Supply Centre,1995 **Special Publication** ,1990

**Chemical Society Reviews** Chemical Society (Great Britain),1991 Publishes short introductory overviews of topics of current interest across the chemical sciences The philosophy of the journal is to introduce chemists not familiar with the field under discussion to the most recent thinking and developments Authors are asked to provide background and historical context to the review as well as a clear but concise guide to current thought **Journal of the Chemical Society** ,1985

*Synthesis and Chemistry of Agrochemicals* Don R. Baker,1987 Chronicles current agricultural developments from initial concept to optimization of biological activity and safety to field performance tests Provides state of the art developments in these areas of researched topics herbicides insecticides fungicides and other control methods Offers a better understanding of the varied approaches to the discovery process in the agrochemical field *American Journal of Veterinary Research* ,1988 Vols for 1956 include selected papers from the proceedings of the American Veterinary Medical Association

**Combating Resistance to Xenobiotics** Martyn Glenn Ford,1987 **Environmental Chemistry** Teh Fu Yen,1999 This book explains the close relationship between chemistry and environmental engineering by covering topics familiar to the environmental engineering discipline It begins by presenting an overview of general physical organic analytical and colloid chemistry Next it focuses on the critical interactions and relationships among the five essential global cycles envirospheres These include the lithosphere minerals and energy sources the atmosphere the hydrosphere water sources peososphere soil and biosphere

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