

Insect Plant Relationships

Proceedings of the 5th International Symposium on Insect-Plant Relationships, Wageningen, the Netherlands, 1-4 March 1982 - J. H. Visser 1982

Novel Aspects of Insect-Plant Interactions - Pedro Barbosa 1988-10-07
Presents the first efforts to explore ecological interactions between insects and plants across several trophic levels, with special focus on mediation of complex interactions by plant allelochemicals. First section looks at effects of plant allelochemicals on predator-prey and host-parasitoid interactions. Second section reveals the role of microorganisms as mediators of interactions between insects and plants. Third section unifies and extends current theory to examine the effects of allelochemicals on the second and third trophic levels. Final section traces the physiological effects of plant allelochemicals in animal behavior, population regulation, maintenance of mimicry systems, and evolution of host range.

Insect-Plant Biology - Louis M. Schoonhoven 2005-12
"Half of all insect species are dependent on living plant tissues, consuming about 10% of plant annual production in natural habitats and an even greater percentage in agricultural systems, despite sophisticated control measures. Plants are generally remarkably well-protected against insect attack, with the result that most insects are highly specialized feeders. The mechanisms underlying plant resistance to invading herbivores on the one side, and insect food specialization on the other, are the main subjects of this book. For insects these include food-plant selection and the complex sensory processes involved, with their implications for learning and nutritional physiology, as well as the endocrinological aspects of life cycle synchronization with host plant

phenology. In the case of plants exposed to insect herbivores, they include the activation of defence systems in order to minimize damage, as well as the emission of chemical signals that may attract natural enemies of the invading herbivores and may be exploited by neighbouring plants that mount defences as well." "Insect-Plant Biology discusses the operation of these mechanisms at the molecular and organismal levels, in the context of both ecological interactions and evolutionary relationships. In doing so, it uncovers the highly intricate antagonistic and mutualistic interactions that have evolved between plants and insects. The book concludes with a chapter on the application of our knowledge of insect-plant interactions to agricultural production." "This multidisciplinary approach will appeal to students in agricultural entomology, plant sciences, ecology, and indeed anyone interested in the principles underlying the relationships between the two largest groups of organisms on earth: plants and insects."--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved
Insect-plant Interactions - Elizabeth A. Bernays 1991

Insects - Plants - G. Fabres 1987

Proceedings of the 9th International Symposium on Insect-Plant Relationships - Erich Städler 2012-12-06

The 9th International Symposium on Insect-Plant Relationships (SIP-9) was once more, following the tradition established in 1958, a forum for investigators in both basic and applied entomology interested in the important and fascinating field of interactions between plants and insects. We were pleased and honoured to organise this symposium, which took place June 24--30, 1995 in Gwatt on the shores of the Lake of

Thun in Switzerland. 168 participants from 26 countries from all over the world actively took part in the symposium by contributing 12 key-note lectures and a total of 141 oral presentations and posters. The favourable response and the lively interaction of the participants in all symposium activities is the clearest indication of the success of SIP-9. The organisers appreciated the enthusiasm and the willingness to collaborate shown by all participants. The following volume contains written contributions (72) of only half of all presentations. This is due to the fact that we decided to produce not only an account of the proceedings but also to publish all contributions as a special volume of the journal *Entomologia Experimentalis et Applicata*. This procedure was last adopted in 1978 for SIP-4, organised by Reginald F. Chapman and Elizabeth A. Bernays, and ensures a wide distribution of the papers within the scientific community and easy access through libraries. Inevitably we had to employ the same review procedure as applicable for the manuscripts regularly submitted to *Entomologia*.

Insects - Plants - V. Labeyrie 1987-05-31

Proceedings of the 6th International Symposium on Insect-Plant Relationships (Pau 1986)

Proceedings of the 8th International Symposium on Insect-Plant Relationships - Steph B.J. Menken 2012-12-06

The papers in this book are organized as follows: insect-plant communities, host-plant selection, genetics and evolution, host-plant resistance and application of transgenic plants, and multitrophic interactions. Besides seven invited papers and a paper with concluding remarks, this volume also contains the short communications of all 115 oral presentations and posters. Included too, are the summaries of four European Science Foundation workshops held over the past two years, where European scientists discussed the state-of-the-art and the future of major topics in insect-plant interactions in order to develop better integrated research programs. The field of insect-plant interactions nowadays includes almost all of biology, as well as parts of chemistry and physics. It takes a central position in biology because insects are the most abundant animal group, half of them are herbivores and they

dominate all terrestrial ecosystems. Knowledge of insect-plant interactions is thus fundamental to an understanding of the evolution of life on Earth. Two major topics of worldwide concern give this field an extra dimension. First, large amounts of food crops are still lost due to insect pests. With the increasing concern for environmental pollution and the subsequent plans to drastically reduce pesticides, integrated pest management and development of resistant crops become a major focus in agriculture. The importance of the study of insect-plant relationships is thus continuously augmented. Clearly, successful pest control demands sufficient fundamental knowledge of pest-host interactions. Second, such work can contribute towards stopping or even counterbalancing the threatening biodiversity crisis thanks to an understanding of how the interaction of insects and plants has influenced and still influences the diversification and speciation (evolution) of both groups. These problems should, of course, be approached at a multitrophic level.

Dimensions of Insect-plant Interactions - T. N. Ananthakrishnan 1992

Symposia of the Royal Entomological Society of London - Royal Entomological Society of London 1973

Insect-plant Relationships - 1968

Proceedings of the 10th International Symposium on Insect-Plant Relationships - Stephen J. Simpson 2013-04-17

Over the past 40 years, the SIP meetings have played a central role in the development of the field of insect-plant relationships, providing both a show-case for current research as well as a forum for the airing and development of influential new ideas. The 10th symposium, held 4-10 July 1998, in Oxford, followed that tradition. The present volume includes a representative selection of fully refereed papers from the meeting, plus a listing of the titles of all presentations. The volume includes reviews of major areas within the subject, along with detailed experimental studies.

Topics covered include central neural and chemosensory bases of host plant recognition, integrative studies of insect behaviour, tritrophic interactions, plant defences, insect life histories, plant growth responses, microbial partners in insect-plant associations, and genetic bases of host plant associations. The book provides a key source for students and research workers in the field of insect-plant relationships.

Insects-plants - V. Labeyrie 1987

Proceedings of the 11th International Symposium on Insect-Plant Relationships - Jens Kvist Nielsen 2013-06-29

The 11th International Symposium on Insect-Plant Relationships (SIP11), held on August 4-10, 2001, in Helsingør, Denmark, followed the tradition of previous SIP meetings and covered topics of different levels from chemistry, physiology, and ethology to ecology, genetics, and evolution of insect-plant relationships. The present volume includes a representative selection of fully refereed papers as well as a complete list of all the contributions which were presented at the meeting. Reviews of selected topics as well as original experimental data are included. The book provides valuable information for students and research workers interested in chemical and biological aspects of interactions between individuals and populations of different organisms.

Proceedings of the 11th International Symposium on Insect-Plant Relationships - Jens Kvist Nielsen 2011-01-27

The 11th International Symposium on Insect-Plant Relationships (SIP11), held on August 4-10, 2001, in Helsingør, Denmark, followed the tradition of previous SIP meetings and covered topics of different levels from chemistry, physiology, and ethology to ecology, genetics, and evolution of insect-plant relationships. The present volume includes a representative selection of fully refereed papers as well as a complete list of all the contributions which were presented at the meeting. Reviews of selected topics as well as original experimental data are included. The book provides valuable information for students and research workers interested in chemical and biological aspects of interactions between individuals and populations of different organisms.

Ecology of Insect-plant Interactions - Peter J. Edwards 1980

Insect-plant Relationships - J.H. Visser 1982

Insect/Plant Relationships, Edited on Behalf of the Society by H.F. Van Emden - 1973

Microbial Mediation of Plant-Herbivore Interactions - Pedro Barbosa 1991-09-03

Novel Aspects of Insect-Plant Interactions Edited by Pedro Barbosa and Deborah K. Letourneau Focusing on three trophic levels, this study widens the current understanding of the ecological interactions between plants, herbivores, and their parasitoids and predators. Emphasized are the mediating effects of plant-derived allelochemicals on those interactions. The book also covers microorganisms as mediators of intertrophic and intratrophic interactions; theory and mechanisms: plant effects via allelochemicals on the third trophic level; and key roles of plant allelochemicals in survival strategies of herbivores. 1988 (0 471-83276-6) 362 pp. Plant-Animal Interactions Evolutionary Ecology in Tropical and Temperate Regions Edited by Peter W. Price, Thomas M. Lewinsohn, G. Wilson Fernandes and Woodruff W. Benson An outgrowth of an international symposium on Evolutionary Ecology of Tropical Herbivores held at UNICAMP, Brazil, this unique collaborative effort from leading scientists worldwide is the first comparative analysis of the existing ecological systems of temperate and tropical regions. In-depth and timely, the book's manifold analyses includes a discussion of tropical and temperate comparisons; mutualistic relationships between plants and animals; antagonistic relationships between plants and animals; plant-butterfly interactions; specificity in plant utilization; and community patterns in natural and agricultural systems. Amply illustrated with 150 detailed graphics, the book provides a fascinating visual tour of the flora and fauna described. 1991 (0 471-50937-X) 639 pp. Integrated Pest Management Systems and Cotton Production Edited by Raymond E. Frisbie, Kamal M. El-Zik and L. Ted Wilson This work

sheds light on the link between the thriving U.S. cotton crop and integrated pest management. It offers a unique theoretical and conceptual framework for studying the cotton-IPM system. Other relevant issues such as the development and use of pest models, quantitative sampling principles in cotton IPM, economic injury levels and thresholds for cotton pests, and strategies and tactics for managing weeds, plant pathogens, nematodes, and insects are also described. Covering every facet of IPM technology, this is a significant contribution

to the literature of pest management. 1989 (0 471-81782-1) 437 pp.
Insect-Plant Interactions - Elizabeth A. Bernays 2019-10-01
First Published in 1989, this book explores the relationship between plants and insects and the ways in which they interact with each other. Carefully compiled and filled with a vast repertoire of notes, diagrams, and references this book serves as a useful reference for students of oncology, and other practitioners in their respective fields.

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