



Insect Herbivore-Host Dynamics

Tree-Dwelling Aphids

Tony Dixon

CAMBRIDGE

Insect Herbivore Host Dynamics

**Pedro Barbosa, Deborah K.
Letourneau, Anurag A. Agrawal**



Insect Herbivore Host Dynamics:

Insect Herbivore-Host Dynamics A. F. G. Dixon, 2005-02-03 Designed to introduce students and research workers to insect herbivore host dynamics this book uses the interaction between aphids and trees as a model Challenging the belief that population dynamics of insect herbivores are heavily influenced by the action of their natural enemies it demonstrates that tree dwelling species of aphids actually regulate their own population through competition for resources *Insect Herbivore-Host Dynamics* A. F. G. Dixon, 2005-05-12 Literature on the population dynamics of insect herbivores tends to favour a top down regulation of abundance owing much to the action of natural enemies Originally published in 2005 this volume challenges this paradigm and argues that tree dwelling species of aphids through competition for resources regulate their own abundance The biology of tree dwelling aphids is examined particularly their adaptation to the seasonal development of their host plants When host plant quality is favourable aphids by telescoping generations can achieve prodigious rates of increase which their natural enemies are unable to match Using analyses of long term population censuses and results of experiments this book introduces students and research workers to insect herbivore host dynamics using the interaction between aphids and trees as a model *Insect Herbivore-host Dynamics* Anthony Frederick George Dixon, 2005 Tony Dixon analyses long term population studies and experiments showing that tree dwelling aphids are regulated not by natural enemies but by competition for limited resources This book is designed to introduce students and research workers to insect herbivore host dynamics using the interaction between aphids and trees as a model **Insect Populations In theory and in practice** Jack P. Dempster, Ian F.G. McLean, 2012-12-06 Insects are by far the largest group of animals on Earth with over a million described species and they occupy a wide range of ecological niches they may be herbivores predators parasites or decomposers Some are of particular economic importance as pests of agriculture and forestry as vectors of animal and human disease or as species of interest to wildlife conservation Thus an understanding of the processes determining their numbers is of considerable practical value Entomologists have played a leading role in developing a theoretical basis to Population Ecology but we still do not have adequate experimental and observational proof for many of the theoretical ideas that have been proposed As a result the subject has been beset with arguments for more than 50 years This volume attempts to reconcile some of these controversies while also reviewing the current state of our knowledge The editors have drawn together an international list of contributors whose views reflect a range of opinions on how natural populations are stabilised They have succeeded in producing a book that both covers the main alternative views in population theory and contains some of the best recent field studies of insect populations This Royal Entomological Society Symposium volume will be of great interest to all entomologists and ecologists particularly those who wish to know more about Population Dynamics *Genomics, Physiology and Behaviour of Social Insects*, 2015-03-26 Physiology Behavior Genomics of Social Insects provides comprehensive information on the social insect groups described including new and

unique reviews on emerging model social organisms The book's interdisciplinary approach integrates behavior genomics and physiology providing readers with great insights into the present state of a rapidly expanding area of research It also discusses areas where new research tools will bring hope to longstanding problems Provides the latest research on the genomics behavior and physiology of social insects Presents diverse and authoritative syntheses on the relationship between genomics physiology and the fascinating behavior of social insects Takes an in depth look of the current state of social insect research and its future path *Multitrophic Interactions in Terrestrial Systems* A. C. Gange,V. K. Brown,2002-08

Multitrophic interactions are now recognised as being of the utmost importance in understanding the complexity of the natural world However their complex nature had often been a barrier to their study as they require research teams composed of workers often with very disparate interests This book therefore takes a multidisciplinary approach to complex interactions across many trophic levels and includes authors from disciplines as diverse as mycology entomology nematology population ecology and theoretical ecology Throughout the direct and indirect interactions between organisms from different trophic levels are emphasised in comprehensive reviews bringing a fresh collaborative approach to community ecology The book is ideal for those seeking an overview of our understanding of multitrophic interactions as well as directions for future research *Ecology and Behaviour of the Ladybird Beetles (Coccinellidae)* Ivo Hodek,A. Honek,Helmut F. van

Emden,2012-05-21 Ladybirds are probably the best known predators of aphids and coccids in the world though this greatly underestimates the diversity of their biology Maximising their impact on their prey is an important element in modern conservation biological control of indigenous natural enemies in contrast to the classical approach of releasing alien species Ivo Hodek is one of the most internationally respected experts on coccinellids who has researched these insects for his entire career He has now brought together 14 scientists of international standing to author 12 chapters making this book the definitive treatment of coccinellid biology and ecology This volume covers the rapid scientific developments of recent years in the understanding of coccinellid phylogeny the semiochemicals influencing their behaviour and of molecular genetics Recent insights in relation to intraguild predation and the assessment of the predatory impact of coccinellids are also covered Other special features of the volume are the extensive references covering the literature from both East and West and a taxonomic glossary of the up to date nomenclature for species of coccinellids as well as of other organisms mentioned in the text While aimed at researchers university teachers and agricultural entomologists the book is readable and appropriate for others who just have a liking for these interesting and attractive insects **Aphid Biodiversity under Environmental Change** Pavel

Kindlmann,A.F.G. Dixon,J.P. Michaud,2010-07-01 This book presents the results of recent research on aphid population dynamics and ecology relevant to current environmental changes resulting from global warming It incorporates a selection of the contributions presented at the International Symposium on Aphids in Fremantle Australia in October 2005 plus some additional invited chapters The objective was to incorporate the major issues in the field and simultaneously create a closely

interrelated and integrated volume The first chapter sets the scene Kindlmann and Dixon present a critical review of existing models of aphid population dynamics examine the biological assumptions that are incorporated in the models and present one of the latest models of aphid metapopulation dynamics They conclude that natural enemies are unlikely to affect aphid population dynamics late in a season but in some years may have an effect very early in the season when aphid colonies are still small and predators might be able to reduce the numbers of colonies The question whether aphids will move to different locations adapt to the change in conditions in their current habitat or go extinct is discussed by Ameixa She concludes that the distributions of aphids are most likely to change with the distribution of each species moving globally as their preferred habitat moves in response to changes in the climate which may be more difficult than in the past because of habitat fragmentation and habitat loss

Effects of Resource Distribution on Animal Plant Interactions Mark D. Hunter, Takayuki Ohgushi, Peter W. Price, 2012-12-02 Aimed primarily at advanced graduate students and professional biologists this book explores the degree to which animal-plant interactions are determined by plant and animal variability Many of the patterns seen in natural communities appear to result from cascading effects up as well as down the trophic system Variability among primary producers can influence animal and plant population quality and dynamics community structure and the evolution of animal-plant interactions

Ecofriendly Pest Management for Food Security Omark Ph.D., 2016-02-03 Ecofriendly Pest Management for Food Security explores the broad range of opportunity and challenges afforded by Integrated Pest Management systems The book focuses on the insect resistance that has developed as a result of pest control chemicals and how new methods of environmentally complementary pest control can be used to suppress harmful organisms while protecting the soil plants and air around them As the world's population continues its rapid increase this book addresses the production of cereals vegetables fruits and other foods and their subsequent demand increase Traditional means of food crop production face proven limitations and increasing research is turning to alternative means of crop growth and protection Addresses environmentally focused pest control with specific attention to its role in food security and sustainability Includes a range of pest management methods from natural enemies to biomolecules Written by experts with extensive real world experience

Insect Outbreaks Revisited Pedro Barbosa, Deborah K. Letourneau, Anurag A. Agrawal, 2012-06-29 The abundance of insects can change dramatically from generation to generation these generational changes may occur within a growing season or over a period of years Such extraordinary density changes or outbreaks may be abrupt and ostensibly random or population peaks may occur in a more or less cyclic fashion They can be hugely destructive when the insect is a crop pest or carries diseases of humans farm animals or wildlife Knowledge of these types of population dynamics and computer models that may help predict when they occur are very important This important new book revisits a subject not thoroughly discussed in such a publication since 1988 and brings an international scale to the issue of insect outbreaks *Insect Outbreaks Revisited* is intended for senior undergraduate and graduate students in ecology

population biology and entomology as well as government and industry scientists doing research on pests land managers pest management personnel extension personnel conservation biologists and ecologists and state county and district foresters

Insects as Natural Enemies Mark Jervis, 2005-05-25 Over the past three decades there has been a dramatic increase in theoretical and practical studies on insect natural enemies The appeal of insect predators and parasitoids in particular as research animals derives from the relative ease with which many species may be cultured and experimented with in the laboratory the simple life cycles of most parasitoids and the increasing demand for biological pest control There is now a massive literature on insect natural enemies so there is a great need for a general text that the enquiring student or research worker can use in deciding on approaches and techniques that are appropriate to the study and evaluation of such insects This book fulfils that demand A considerably updated and expanded version of a previous best seller it is an account of major aspects of the biology of predators and parasitoids punctuated with information and advice on which experiments or observations to conduct and how to carry them out Guidance is provided where necessary on the literature that may need to be consulted on particular topics While researchers can now refer to several books on parasitoids and predators *Insects as Natural Enemies* is unique in emphasising practicalities It is aimed at students and professional working in universities and both government and commercial institutes in the fields of pest management agriculture horticulture and forestry *Insects*

as Natural Enemies Mark A. Jervis, 2007-09-07 Over the past three decades there has been a dramatic increase in theoretical and practical studies on insect natural enemies This considerably updated and expanded version of a previous best seller is an account of major aspects of the biology of predators and parasitoids punctuated with information and advice on which experiments or observations to conduct and how to carry them out It emphasizes practicalities and also provides guidance on further literature

Proceedings of the 11th International Symposium on Insect-Plant Relationships Jens Kvist Nielsen, Christian Kjær, Louis M. Schoonhoven, 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 *Herbivores: Their Interactions with Secondary Plant*

Metabolites Gerald A. Rosenthal, May R. Berenbaum, 2012-12-02 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

Breeding Insect Resistant Crops for Sustainable

Agriculture Ramesh Arora, Surinder Sandhu, 2017-10-16 This book reviews and synthesizes the recent advances in exploiting host plant resistance to insects highlighting the role of molecular techniques in breeding insect resistant crops It also provides an overview of the fascinating field of insect plant relationships which is fundamental to the study of host plant resistance to insects Further it discusses the conventional and molecular techniques utilized useful in breeding for resistance to insect pests including back cross breeding modified population improvement methods for insect resistance marker assisted backcrossing to expedite the breeding process identification and validation of new insect resistance genes and their potential for utilization genomics metabolomics transgenesis and RNAi Lastly it analyzes the successes limitations and prospects for the development of insect resistant cultivars of rice maize sorghum and millet cotton rapeseed legumes and fruit crops and highlights strategies for management of insect biotypes that limit the success and durability of insect resistant cultivators in the field Arthropod pests act as major constraints in the agro ecosystem It has been estimated that arthropod pests may be destroying around one fifth of the global agricultural production potential production every year Further the losses are considerably higher in the developing tropics of Asia and Africa which are already battling severe food shortage Integrated pest management IPM has emerged as the dominant paradigm for minimizing damage by the insects and non insect pests over the last 50 years Pest resistant cultivars represent one of the most environmentally benign economically viable and ecologically sustainable options for utilization in IPM programs Hundreds of insect resistant cultivars of rice wheat maize sorghum cotton sugarcane and other crops have been developed worldwide and are extensively grown for increasing and or stabilizing crop productivity The annual economic value of arthropod resistance genes developed in global agriculture has been estimated to be greater than US 2 billion Despite the impressive achievements and even greater potential in minimizing pest related losses only a handful of books have been published on the topic of host plant resistance to insects This book fills this wide gap in the literature on breeding insect resistant crops It is aimed at plant breeders entomologists plant biotechnologists and IPM experts as well as those working on sustainable agriculture and food security

Forest Microbiology Vol.3 Tree Diseases and Pests Fred O Asiegbe, Andriy Kovalchuk, 2022-07-28 Forest Microbiology Tree Diseases and Pests Volume Three in the Forest Microbiology series provides an overview of major disease

agents of trees including viruses phytoplasma bacteria fungi nematodes and major insect pests With a strong emphasis on genetics biochemistry physiology evolutionary biology and population dynamics of the organisms involved this book provides a comprehensive understanding on the health of forests Sections cover important pest threats such as bark beetles emerald ash borer coffee borers leaf cutting ants cocoa mirids and more This volume highlights a range of emerging diseases of forest trees in temperate and tropic regions as well as information on habitats Forest trees play crucial roles not only for mitigating effects of the climate change but also for their considerable economic and ecological value Forest trees are equally vital as an alternative bioenergy source and play important roles in pollution abatement and the maintenance of biodiversity Timber and its associated products from forest trees contribute substantially to the revenue generation of many countries of the world Includes case studies of complex diseases of economically important trees Highlights novel approaches to managing tree pests and diseases in a changing climate Focuses on the many functions of microbial disease agents of trees Addresses major insect pests of boreal temperate and tropical trees Specialization, Speciation, and Radiation Kelley Jean Tilmon, 2008 This volume captures the state of the art in the study of insect plant interactions and marks the transformation of the field into evolutionary biology The contributors present integrative reviews of uniformly high quality that will inform and inspire generations of academic and applied biologists Their presentation together provides an invaluable synthesis of perspectives that is rare in any discipline Brian D Farrell Professor of Organismic and Evolutionary Biology Harvard University Tilmon has assembled a truly wonderful and rich volume with contributions from the lion s share of fine minds in evolution and ecology of herbivorous insects The topics comprise a fascinating and deep coverage of what has been discovered in the prolific recent decades of research with insects on plants Fascinating chapters provide deep analyses of some of the most interesting research on these interactions From insect plant chemistry behavior and host shifting to phylogenetics co evolution life history evolution and invasive plant insect interaction one is hard pressed to name a substantial topic not included This volume will launch a hundred graduate seminars and find itself on the shelf of everyone who is anyone working in this rich landscape of disciplines Donald R Strong Professor of Evolution and Ecology University of California Davis Seldom have so many excellent authors been brought together to write so many good chapters on so many important topics in organismic evolutionary biology Tom Wood always unassuming and inspired by living nature would have been amazed and pleased by this tribute Mary Jane West Eberhard Smithsonian Tropical Research Institute *Insect Conservation and Urban Environments* Tim R. New, 2015-09-18 Includes chapters on assessing changes among assemblages and in individual species the variety of general threats notably habitat changes and impacts of alien species and more particularly urban threats The first global overview and synthesis of the impacts of urbanisation on insects and their relatives and the needs and theoretical and practical background to conserving them in urban environments Insect dependence on open spaces in built up areas suggests a wide range of management options for conservation from individual site including

novel habitats such as green roofs to landscape level connectivity These measures all discussed with specific examples involve all sectors of humanity from government agencies to individual householders and citizen scientist groups Each chapter includes pertinent and recent

Advances in Insect Chemical Ecology Ring T. Cardé,Jocelyn G.

Millar,2004-06-21 Chemical signals mediate all aspects of insects lives and their ecological interactions The discipline of chemical ecology seeks to unravel these interactions by identifying and defining the chemicals involved and documenting how perception of these chemical mediators modifies behaviour and ultimately reproductive success Chapters in this 2004 volume consider how plants use chemicals to defend themselves from insect herbivores the complexity of floral odors that mediate insect pollination tritrophic interactions of plants herbivores and parasitoids and the chemical cues that parasitoids use to find their herbivore hosts the semiochemically mediated behaviours of mites pheromone communication in spiders and cockroaches the ecological dependency of tiger moths on the chemistry of their host plants and the selective forces that shape the pheromone communication channel of moths The volume presents descriptions of the chemicals involved the effects of semiochemically mediated interactions on reproductive success and the evolutionary pathways that have shaped the chemical ecology of arthropods

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