

# Evolution And Diversity Of Sex Ratio In Insects And Mites

Mites (Acari) for Pest Control - Uri Gerson 2008-04-15

Mites (Acari) for Pest Control is an extremely comprehensive publication, covering in depth the 34 acarine families that contain mites useful for the control of pest mites and insects, nematodes and weeds. In addition to providing information on each relevant acarine family, the book includes essential information on the introduction, culture and establishment of acarine biocontrol agents, the effects of the host plants, agrochemicals and environmental factors on mites used in biological control and discusses commercial and economic considerations in their use. Mites are now used in various ways for biological control, with a growing number of species being sold commercially throughout the world. The authors of this landmark publication, who have between them a huge wealth of experience working with mites in biological control programs, have put together a book that will for many years be the standard reference on the subject. The book will be of great value to all those working in crop protection and biological control both in research as well as in commercial operations, including acarologists, entomologists, integrated pest management specialists, agricultural and plant scientists. Libraries in all universities and research establishments where these subjects are studied and taught should all have copies on their shelves. Uri Gerson is at the Department of Entomology, Faculty of Agricultural, Food and Environmental Sciences, Hebrew University, Rehovot, Israel. Robert L. Smiley and Ronald Ochoa are at the Systematic Entomology Laboratory, US Department of Agriculture, Agricultural Research Service, Beltsville, MD, USA

**Insect Molecular Genetics** - Marjorie A. Hoy 2013-10-22

Developed as an introduction to new molecular genetic techniques, Insect Molecular Genetics also provides literature, terminology, and

additional sources of information to students, researchers, and professional entomologists. Although most molecular genetics studies have employed *Drosophila*, this book applies the same techniques to other insects, including pest insects of economic importance. As a text, as a reference, as a primer, and as a review of a vast and growing literature, Insect Molecular Genetics is a valuable addition to the libraries of entomologists, geneticists, and molecular biologists. Features offered by this unique reference source: Detailed illustrations Suggested readings at the end of each chapter Glossary of molecular genetic terms  
**Evolutionary Biology of Parasites. (MPB-15), Volume 15** - Peter W. Price 2020-03-31

In spite of the fact that parasites represent more than half of all living species of plants and animals, their role in the evolution of life on earth has been substantially underestimated. Here, for the first time within an evolutionary and ecological framework, Peter Price integrates the biological attributes that characterize parasites ranging from such diverse groups as viruses, bacteria, protozoa, and fungi, to helminths, mites, insects, and parasitic flowering plants. Synthesizing systematics, ecology, behavioral biology, genetics, and biogeography, the author outlines the success of parasitism as a mode of life, the common features of the wide range of organisms that adopt such a way of life, the reasons for parasites' extraordinary potential for continued adaptive radiation, and their role in molding community structure by means of their impact on the evolution of host species. In demonstrating the importance of parasitic interactions for determining population patterns and geographical distributions, Dr. Price generates further discussion and suggests new areas for research.

*Evolution and Diversity of Sex Ratio* - Dana Wrensch 1993-07-14

Darwin first raised the question of sex ratio evolution, and saw it as both important and enigmatic. He was, however, unable to make much headway with the problem and declared it a puzzle for the future. This particular puzzle arrived about 60 years later, when R. A. Fisher (1930) pointed out that under autosomal inheritance half of the genes passed to zygotes in any generation come from males and half come from females. Fisher noted that this one-mother/one-father symmetry generates frequency dependent natural selection on sex ratio, resulting in an evolutionary equilibrium in which half of the reproductive resources are devoted to daughters and half to sons. Although widespread interest in sex ratio as a phenotypic trait did not occur for another 30 years, it is difficult for us to overestimate the importance of Fisher's brief and characteristically cryptic remarks. Almost all of the innovations in thinking about sex ratio can be viewed as alterations of one or more implicit assumptions in Fisher's scheme. The present book on insect sex ratios is testimony to the fruitfulness of his original ideas and of their descendants.

Advances in the Study of Behavior - 2012-12-06

Advances in the Study of Behavior was initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior. That number is still expanding. This volume makes another important "contribution to the development of the field" by presenting theoretical ideas and research to those studying animal behavior and to their colleagues in neighboring fields. Advances in the Study of Behavior is now available online at ScienceDirect full-text online from volume 30 onward. Advances in the Study of Behavior was initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior. Makes another important contribution to the development of the field. Presenting theoretical ideas and research to those studying animal behavior and to their colleagues in neighboring fields.

**Mites** - Marilyn A. Houck 2012-12-06

Many mites possess extremely intricate life styles in close association with plant and animal hosts. Their polymorphism has made classification

a challenge, and their ability to reproduce both sexually and asexually has made efforts to control their populations difficult. This, however, has given rise to theories to explain the origin and function of sexual reproduction in general. In numbers of species and geographic distribution, mites may even surpass the insects. In soils, they are a major component in the system for cycling nutrients. Unlike insects, they have invaded the marine environment. These and a number of other topics are explored in Mites. Because of their extremely small size, mites have been ignored during the development of major evolutionary and ecological theories. Yet mites routinely violate fundamental concepts such as heterochrony, sexual selection, the evolution of sex ratio, and ontogeny. Recent research methodologies have made it practical for the first time to perform experimental work with mites, and since they offer short generation times and rapid research results, they are excellent model systems. Mites announces these results and should appeal to professionals in entomology, acarology, ecology, population genetics, and evolutionary biology.

**Acarid Phylogeny and Evolution: Adaptation in Mites and Ticks** -

Fabio Bernini 2013-03-09

The words pronounced by Serge Kreiter during the meeting come to mind. They could record exactly the situation of Acarology in Europe and in the World: "I think that in many European countries there are very few full time acarologists. It is very rare to have new positions available . . . . And public money, from the European Community but also from national countries, is very hard to get when you want to work on mites . . . . Could two acarological associations in Europe (Eur. A. Ac. and S. I. A. L. F) work together or, better, get married?" So, the fourth symposium of the European Acarologists has not only been the occasion to have an idea on which direction the research is addressed today, but also it pointed out the difficulties of our "scientific branch". On the basis of the presentations and invited papers we had evidences of a "new" Acarology based on modern techniques and methods of investigations but also the importance, often sheltered even if of relevant value, of the "old" Acarology made on the alpha taxonomy and basic studies. So, a "new"

Acarology needs the "old" one. In this context, the hope to put together the European acarologists has been coming up. This fact, of political meaning, can surely improve the acarological movement and the discussion on this point showed clearly the importance of several other activities and efforts in this direction. We hope that the meeting in Siena will represent a significative stone for the progress of Acarology.

*Mites* - Marilyn A. Houck 1993-09-30

Many mites possess extremely intricate life styles in close association with plant and animal hosts. Their polymorphism has made classification a challenge, and their ability to reproduce both sexually and asexually has made efforts to control their populations difficult. This, however, has given rise to theories to explain the origin and function of sexual reproduction in general. In numbers of species and geographic distribution, mites may even surpass the insects. In soils, they are a major component in the system for cycling nutrients. Unlike insects, they have invaded the marine environment. These and a number of other topics are explored in *Mites*. Because of their extremely small size, mites have been ignored during the development of major evolutionary and ecological theories. Yet mites routinely violate fundamental concepts such as heterochrony, sexual selection, the evolution of sex ratio, and ontogeny. Recent research methodologies have made it practical for the first time to perform experimental work with mites, and since they offer short generation times and rapid research results, they are excellent model systems. *Mites* announces these results and should appeal to professionals in entomology, acarology, ecology, population genetics, and evolutionary biology.

**Assessment of Species Diversity in the Atlantic Maritime Ecozone** -

Donald F. McAlpine 2010

**Molecular Ecology and Evolution: Approaches and Applications** -

B. Schierwater 2013-06-29

The past 25 years have witnessed a revolution in the way ecologists and evolutionary biologists approach their disciplines. Modern molecular techniques are now reshaping the spectrum of questions that can be

addressed while studying the mechanisms and consequences of the ecology and evolution of living organisms. "Molecular Ecology and Evolution: Approaches and Applications" describes, from a molecular perspective, several methodological and technical approaches used in the fields of ecology, evolution, population biology, molecular systematics, conservation genetics, and development. Modern techniques are introduced, and older, more classic ones refined. The advantages, limitations, and potentials of each are discussed in detail, and thereby illustrate the widening range of cross-field research and applications which this modern technology is stimulating. This book will serve as an important textbook for graduate and advanced undergraduate students, and as a key reference work for researchers

**Behavioral Ecology of Insect Parasitoids** - Eric Wajnberg 2008-04-30

Written by a team of leading international specialists, Behavioral Ecology of Insect Parasitoids examines the optimal behaviors that parasitoids exhibit in order to maximize long term offspring production. It is an essential reference for research scientists and students studying these fascinating insects or for anyone involved in using parasitoids in biological control programs. Reviews topical issues, including cutting edge research on parasitoid decision making and the implications for biological control Explores applications in other fields, provides information on the latest research methods, and includes helpful case studies and statistical tools Creates a deeper understanding of the link between behavioural strategies and host mortality, resulting in more efficient selective pest management programs "Overall, this is a fascinating volume that provides a significant contribution to the literature on parasitoid insects. It goes a long way toward providing insights into numerous aspects of parasitoid behavior and will stimulate a diversity of future projects, something that should be the goal of any such text. I highly recommend Wajnberg et al. for all of those working on the biology or evolution of parasitoids." Palaios 2009

*Evolution and Diversity of Sex Ratio* - Dana Wrensch 1993-06-30

Darwin first raised the question of sex ratio evolution, and saw it as both important and enigmatic. He was, however, unable to make much

headway with the problem and declared it a puzzle for the future. This particular future arrived about 60 years later, when R. A. Fisher (1930) pointed out that under autosomal inheritance half of the genes passed to zygotes in any generation come from males and half come from females. Fisher noted that this one-mother/one-father symmetry generates frequency dependent natural selection on sex ratio, resulting in an evolutionary equilibrium in which half of the reproductive resources are devoted to daughters and half to sons. Although widespread interest in sex ratio as a phenotypic trait did not occur for another 30 years, it is difficult for us to overestimate the importance of Fisher's brief and characteristically cryptic remarks. Almost all of the innovations in thinking about sex ratio can be viewed as alterations of one or more implicit assumptions in Fisher's scheme. The present book on insect sex ratios is testimony to the fruitfulness of his original ideas and of their descendants.

**Mites: Ecology, Evolution & Behaviour** - David Evans Walter  
2013-10-08

More than 40,000 species of mites have been described, and up to 1 million may exist on earth. These tiny arachnids play many ecological roles including acting as vectors of disease, vital players in soil formation, and important agents of biological control. But despite the grand diversity of mites, even trained biologists are often unaware of their significance. *Mites: Ecology, Evolution and Behaviour* (2nd edition) aims to fill the gaps in our understanding of these intriguing creatures. It surveys life cycles, feeding behaviour, reproductive biology and host-associations of mites without requiring prior knowledge of their morphology or taxonomy. Topics covered include evolution of mites and other arachnids, mites in soil and water, mites on plants and animals, sperm transfer and reproduction, mites and human disease, and mites as models for ecological and evolutionary theories.

Sex Allocation - Stuart West 2009-09-28

Recent decades have witnessed an explosion of theoretical and empirical studies of sex allocation, transforming how we understand the allocation of resources to male and female reproduction in vertebrates,

invertebrates, protozoa, and plants. In this landmark book, Stuart West synthesizes the vast literature on sex allocation, providing the conceptual framework the field has been lacking and demonstrating how sex-allocation studies can shed light on broader questions in evolutionary and behavioral biology. West clarifies fundamental misconceptions in the application of theory to empirical data. He examines the field's successes and failures, and describes the research areas where much important work is yet to be done. West reveals how a shared underlying theoretical framework unites findings of sex-ratio variation across a huge range of life forms, from malarial parasites and hermaphroditic worms to sex-changing fish and mammals. He shows how research on sex allocation has been central to many critical questions and controversies in evolutionary and behavioral biology, and he argues that sex-allocation research serves as a key testing ground for different theoretical approaches and can help resolve debates about social evolution, parent-offspring conflict, genomic conflict, and levels of selection. Certain to become the defining book on the subject for the next generation of researchers, *Sex Allocation* explains why the study of sex allocation provides an ideal model system for advancing our understanding of the constraints on adaptation among all living things in the natural world.

*The Evolution of Social Behaviour in Insects and Arachnids* - Jae C. Choe  
1997-03-27

Comprehensive and unbeatable guide to the evolution of cooperation in insects and arachnids.

*Jervis's Insects as Natural Enemies: Practical Perspectives* - Ian C.W. Hardy  
2023-12-11

There has been a dramatic increase in theoretical and practical studies on insect natural enemies over the last decades. The appeal of insect predators and, in particular, parasitoids, as research animals derives from the relative ease with which many species may be cultured and experimented on in the laboratory, the simple life-cycles of most parasitoid species, and the increasing demand for biological pest control as a key component of the integrated pest management approach. There is now a very substantial literature on insect natural enemies and thus a

great need for a general text that enquiring students or research workers can use in deciding on approaches and techniques that are appropriate to the study and evaluation of such insects. This book fulfils that demand. It is a considerably updated and expanded version of a previous best-seller and provides 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, importantly, how to carry them out. Guidance is provided, where necessary, on the most recent further literature that may need to be consulted on given topics. While researchers can now refer to several books on parasitoids and predators, Jervis's *Insects as Natural Enemies* is unique in emphasising practicalities. It is aimed at students and professionals working in universities and both government and commercial institutes in the fields of integrated pest management, agriculture, horticulture and forestry, as well as those interested in fundamentals of behavioural, population, community and evolutionary ecology.

Plant Mites and Sociality - Yutaka Saito 2009-11-19

Mites are very small animals, characterized by wingless and eyeless bodies, in which sociality has been discovered. This book offers detailed descriptions of the diverse social systems and the social evolution of mites, ranging from genetic to ecological aspects. Through a broad spectrum of studies including traditional natural history, taxonomy, modern evolutionary and behavioral ecology, and theoretical models as well, the book addresses a number of important findings on plant mite evolution and species radiation, with the author succeeding in combining theoretical and practical approaches in behavioral ecology by proposing a new game theory. These findings reflect the complex evolutionary history of these taxa and also help to point out clearly what is known and what is not yet known to date. Mites have been considered a minor animal group, but the author shows that mites actually possess great diversity and therefore make unique materials for evolutionary and behavioral studies.

**Ecology and Evolution of the Acari** - J. Bruin 2013-03-09

Acarology is on the move! The growing interest from evolutionary and

molecular biologists and from population and community ecologists in mites and ticks has a strong impetus on the field of acarology. This book contains many chapters that illustrate the recent progress in the field.

*Advances in Insect Physiology* - 2019-06-04

*Advances in Insect Physiology*, Volume 56, provides readers with the latest interdisciplinary reviews on the topic. It is an essential reference source for invertebrate physiologists, neurobiologists, entomologists, zoologists, and insect chemists, with this new release focusing on the Effects of resource limitation on the strengths of tradeoffs in insect lifecycles, The circadian system in insects: cellular, molecular, and functional organization, Molecular Physiology of the Insect Midgut, The Cryptonephridic system in Lepidoptera, Subsocial insects and the physiology of parental care, Mechanisms regulating phenotypically plastic traits in wing polymorphic insects, and more. Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the *Advances in Insect Physiology* series Contains important, comprehensive, and in-depth reviews on insect physiology

**Thrips Biology and Management** - Bruce L. Parker 2013-11-11

Thrips (thysanoptera) are very small insects, widespread throughout the world with a preponderance of tropical species, many temperate ones, and even a few living in arctic regions. Of the approximately 5,000 species so far identified, only a few hundred are crop pests, causing serious damage or transmitting diseases to growing crops and harvestable produce in most countries. Their fringed wings confer a natural ability to disperse widely, blown by the wind. Their minute size and cryptic behavior make them difficult to detect either in the field or in fresh vegetation transported during international trade of vegetables, fruit and ornamental flowers. Many species have now spread from their original natural habitats and hosts to favorable new environments where they often reproduce rapidly to develop intense damaging infestations that are costly to control. Over the past decade there have been several spectacular examples of this. The western flower thrips has expanded its range from the North American continent to Europe, Australia and South

Africa. Thrips palmi has spread from its presumed origin, the island of Sumatra, to the coast of Florida, and threatens to extend its distribution throughout North and South America. Pear thrips, a known orchard pest of Europe and the western United States and Canada has recently

become a major defoliator of hardwood trees in Vermont and the neighboring states. Local outbreaks of other species are also becoming problems in field and glasshouse crops as the effectiveness of insecticides against them decline.

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