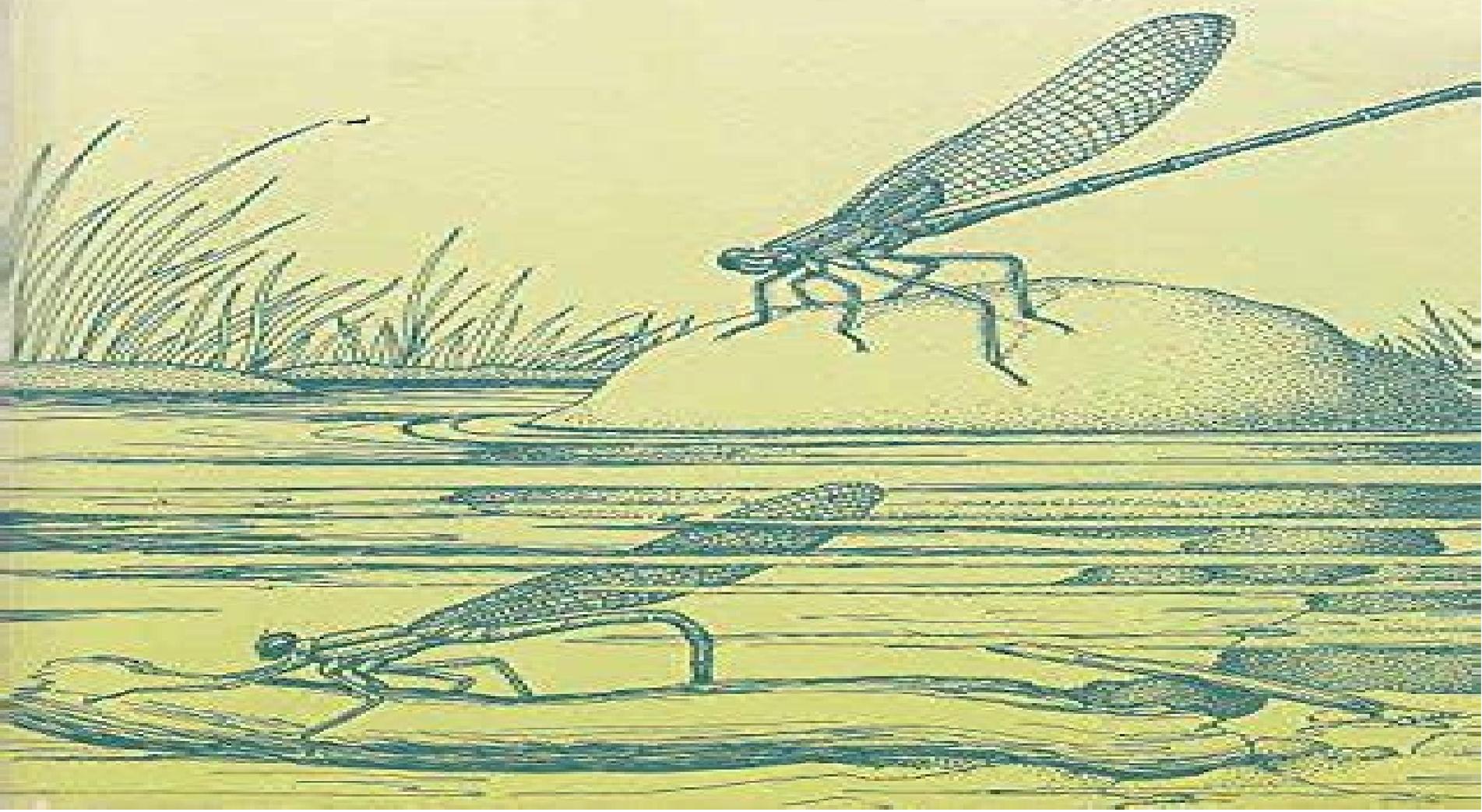


# The Evolution of Insect Mating Systems

Randy Thornhill and John Alcock



# The Evolution Of Insect Mating Systems

**Xiang Xie**



## **The Evolution Of Insect Mating Systems:**

**The Evolution of Insect Mating Systems** David M. Shuker, Leigh W. Simmons, 2014 Insects display a staggering diversity of mating and social behaviours Studying these systems provides insights into a wide range of evolutionary and behavioural questions such as the evolution of sex sexual selection sexual conflict and parental care This edited volume provides an authoritative update of the landmark book in the field **The Evolution of Insect Mating Systems** Thornhill and Alcock 1983 which had such a huge impact in shaping adaptationist approaches to the study of animal behaviour and influencing the study of the evolution of reproductive behaviour far beyond the taxonomic remit of insects This accessible new volume brings the empirical and conceptual scope of the original book fully up to date incorporating the wealth of new knowledge and research of the last 30 years It explores the evolution of complex forms of sex determination in insects and the role of sexual selection in shaping the evolution of mating systems Selection arising via male contest competition and female choice both before and after copulation are discussed as are the roles of parasites and pathogens in mediating the strength of sexual selection and the role that parental care plays in successful reproduction **The Evolution of Insect Mating Systems** is suitable for both graduate students and researchers interested in insect mating systems or behaviour from an evolutionary genetical physiological or ecological perspective Due to its interdisciplinary and concept driven approach it will also be of relevance and use to a broad audience of evolutionary biologists

**The Evolution of Insect Mating Systems** Randy Thornhill, John Alcock, 1983

**The Evolution of Insect Mating Systems** Randy Thornhill, John Alcock, 1985-07

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[The Evolution of Mating Systems in Insects and Arachnids](#) Jae C. Choe, Bernard J. Crespi, 1997-06-12 Insects and arachnids display the most impressive diversity of mating and social behaviour among all animals This book investigates sexual competition in these groups and the variety of ways in which males and females pursue persuade manipulate control and help one another enabling us to gain a better understanding of how conflicts and confluences of interest evolve together Each chapter provides a comprehensive review of mating systems in particular insect and arachnid groups discusses intrinsic and extrinsic factors responsible for observed mating strategies and suggests fruitful avenues for further research The book culminates in a synthesis reviewing the date in terms of the theory of sexual conflict This broad based book will be of immense value to students and researchers interested in reproductive strategies behavioural ecology entomology and arachnology

[Reproductive Strategies in Insects](#) Omkar, Geetanjali

Mishra, 2022-02-15 Reproduction is one of the most inherent tasks that all living organisms are actively involved in. It forms the backbone of their existence with all evolutionary energies directed over billion years of creation into maximizing reproductive effort. For so simple and directed a need such as maximizing reproduction it is interesting to see how much diversity and complexity exists in this task. Each organism despite having the same end goal employs different strategies. The complexities, intricacies and strategies of successful reproduction while being extremely fascinating are equally baffling. Reproductive Strategies in Insects provides an expansive critical look at the reproductive strategies of the most diverse group of animals, the insects. Insects which inhabit myriad niches in all ecosystems except the oceans show the most diverse reproductive strategies ranging from simplest to most complex. Reproductive strategies viz search for mates, number of mates, display of mate quality, assessment of mate quality, acceptance of mate, rejection of mates, forced copulations, the fight for paternity pre during and post copula, the modulation of paternity, ovipositional strategies and parental care are described in detail in this book. Also each strategy is analyzed in relation to its morphological, physiological, ethological, ecological and evolutionary aspects. Features: Covers a wide variety of reproductive strategies. A detailed step by step description of reproductive strategies. Discusses morphological, physiological, ethological, ecological and evolutionary aspects. Modulation of these strategies and responsible modulatory factors are also discussed. Well illustrated. Recent research results and probable future research directions. This is a niche reference book for ethologists, biologists studying behavioural evolution and entomologists. It may also be used as a textbook for a graduate level course in behaviour.

**The Life History of the Parental Shield Bug, *Parastrachia japonensis*** Lisa Filippi, Shintaro Nomakuchi, 2022-10-13 This book presents the discoveries made during nearly three decades of research on the parental shield bug *Parastrachia japonensis* inhabiting Kyushu Island, Japan. *P. japonensis* has evolved a unique and fascinating life history characterized by extreme behavioral and physiological adaptations that have culminated in a singularly dependent relationship with its lone host tree, *Schoepfia jasminodora* (Oleaceae), which is a generally scarce and unreliable resource. It is expected that the evolution of parental care behaviors in the strictly semelparous *P. japonensis* was more directly influenced by the benefit to females that arises from enhanced survivorship of current offspring rather than any possible cost the females might incur in terms of reduced future reproductive success because no future reproduction is possible. The authors explain how the different parental cares in this species enhance offspring survivorship in the context of the ecological conditions it has experienced over evolutionary time. The book begins with a recap of the earliest studies, the reports through 1991, and then introduces the many fascinating aspects of the life history, neurobiology, physiology and behavior of *P. japonensis* that have been newly discovered since and those aspects that have been confirmed through experimentation over the past thirty years. This comprehensive review of information will be useful for comparative studies of parental care in other semelparous and iteroparous organisms experiencing both similar and different ecological constraints. The book will be of academic interest to undergraduate and

graduate students of entomology zoology behavior and behavioral ecology     *Jervis's Insects as Natural Enemies: Practical Perspectives* Ian C.W. Hardy, Eric Wajnberg, 2023-11-09 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     **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     **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 The Mating System of the Polynesian Field Cricket Teleogryllus Oceanicus (LeGuillou) Larry Jay Vaughan,1995 *The American Naturalist* ,2005 *Journal of Morphology* ,1912 *Sperm Competition and the Evolution of Animal Mating systems* Robert L. Smith,2012-12-02 Sperm Competition and the Evolution of Animal Mating Systems describes the role of sperm competition in selection on a range of attributes from gamete morphology to species mating systems This book is organized into 19 chapters and begins with the conceptualization of sperm competition as a subset of sexual selection and its implications for the insects The following chapter describes the relationship between multiple mating and female fitness with an emphasis on determining the conditions under which selection on females is likely to counteract selection on males for avoiding sperm competition Other chapters consider the female perspective on sperm competition the evolutionary causation at the level of the individual male gamete and the correlation of high paternal investment and sperm precedence in the insects The remaining chapters are arranged phylogenetically and explore the sperm competition in diverse animal taxa such as the Drosophila Lepidoptera spiders amphibians and reptiles These chapters also cover the evolution of direct versus indirect sperm transfer among the arachnids or the problem for kinship theory presented by multiple mating and sperm competition in the Hymenoptera This book further discusses the remarkable potential for sperm competition among certain temperate bat species whose females store sperm through winter hibernation and the mixed strategies and male caused female genital trauma as possible sperm competition adaptations in poeciliid fishes The concluding chapter examines the predictions concerning testes size and mating systems in the primates and the possible role of sperm competition in human selection This book is of great value to reproductive biologists and researchers **Annals of the Entomological Society of America** ,1998 **National Agricultural Library Catalog** National Agricultural Library (U.S.),1983 **Proceedings** ,1999 **Acta Zoologica Cracoviensia** ,1956 **The American Midland Naturalist** ,1993 Canadian Journal of Zoology ,2001

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## **Table of Contents The Evolution Of Insect Mating Systems**

1. Understanding the eBook The Evolution Of Insect Mating Systems
  - The Rise of Digital Reading The Evolution Of Insect Mating Systems
  - Advantages of eBooks Over Traditional Books
2. Identifying The Evolution Of Insect Mating Systems
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an The Evolution Of Insect Mating Systems
  - User-Friendly Interface
4. Exploring eBook Recommendations from The Evolution Of Insect Mating Systems
  - Personalized Recommendations
  - The Evolution Of Insect Mating Systems User Reviews and Ratings
  - The Evolution Of Insect Mating Systems and Bestseller Lists
5. Accessing The Evolution Of Insect Mating Systems Free and Paid eBooks
  - The Evolution Of Insect Mating Systems Public Domain eBooks
  - The Evolution Of Insect Mating Systems eBook Subscription Services
  - The Evolution Of Insect Mating Systems Budget-Friendly Options

6. Navigating The Evolution Of Insect Mating Systems eBook Formats
  - ePub, PDF, MOBI, and More
  - The Evolution Of Insect Mating Systems Compatibility with Devices
  - The Evolution Of Insect Mating Systems Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of The Evolution Of Insect Mating Systems
  - Highlighting and Note-Taking The Evolution Of Insect Mating Systems
  - Interactive Elements The Evolution Of Insect Mating Systems
8. Staying Engaged with The Evolution Of Insect Mating Systems
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers The Evolution Of Insect Mating Systems
9. Balancing eBooks and Physical Books The Evolution Of Insect Mating Systems
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection The Evolution Of Insect Mating Systems
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine The Evolution Of Insect Mating Systems
  - Setting Reading Goals The Evolution Of Insect Mating Systems
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of The Evolution Of Insect Mating Systems
  - Fact-Checking eBook Content of The Evolution Of Insect Mating Systems
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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