

Alfredo V. Peretti - Anita Aisenberg
Editors

Cryptic Female Choice in Arthropods

Patterns, Mechanisms and Prospects



Springer

Cryptic Female Choice In Arthropods Patterns Mechanisms And Prospects

**Peggy S. M. Hill, Reinhard Lakes-
Harlan, Valerio Mazzoni, Peter M.
Narins, Meta Virant-Doberlet, Andreas
Wessel**

Cryptic Female Choice In Arthropods Patterns Mechanisms And Prospects:

Cryptic Female Choice in Arthropods Alfredo V. Peretti, Anita Aisenberg, 2015-05-25 This timely book revisits cryptic female choice in arthropods gathering detailed contributions from around the world to address key behavioral ecological and evolutionary questions The reader will find a critical summary of major breakthroughs in taxon oriented chapters that offer many new perspectives and cases to explore and in many cases unpublished data Many groups of arthropods such as spiders harvestmen flies moths crickets earwigs beetles eusocial insects shrimp and crabs are discussed Sexual selection is currently the focus of numerous and controversial theoretical and experimental studies Selection in mating and post mating patterns can be shaped by several different mechanisms including sperm competition extreme sexual conflict and cryptic female choice Discrimination among males during or after copulation is called cryptic female choice because it occurs after intromission the event that was formerly used as the definitive criterion of male reproductive success and is therefore usually difficult to detect and confirm Because it sequentially follows intra and intersexual interactions that occur before copulation cryptic female choice has the power to alter or negate precopulatory sexual selection However though female roles in biasing male paternity after copulation have been proposed for a number of species distributed in many animal groups cryptic female choice continues to be often underestimated Furthermore in recent years the concept of sexual conflict has been frequently misused linking sexual selection by female choice irrevocably and exclusively with sexually antagonistic co evolution without exploring other alternatives The book offers an essential source of information on how two fields selective cooperation and individual sex interests work together in the context of cryptic female choice in nature using arthropods as model organisms It is bound to spark valuable discussions among scientists working in evolutionary biology across the world motivating new generations to unveil the astonishing secrets of sexual biology throughout the animal kingdom **Biotremology: Studying**

Vibrational Behavior Peggy S. M. Hill, Reinhard Lakes-Harlan, Valerio Mazzoni, Peter M. Narins, Meta Virant-Doberlet, Andreas Wessel, 2019-11-29 This volume is a self contained companion piece to Studying Vibrational Communication published in 2014 within the same series The field has expanded considerably since then and has even acquired a name of its own biotremology In this context the book reports on new concepts in this fascinating discipline and features chapters on state of the art methods for studying behavior tied to substrate borne vibrations as well as an entire section on applied biotremology Also included are a historical contribution by pioneers in the field and several chapters reviewing the advances that have been made regarding specific animal taxa Other new topics covered are vibrational communication in vertebrates multimodal communication and biotremology in the classroom as well as in art and music Given its scope the book will appeal to all those interested in communication and vibrational behavior but also to those seeking to learn about an ancient mode of communication *The Female Turn* Malin Ah-King, 2023-01-04 This book traces the history of how evolutionary biology transformed its understanding of females from being coy reserved and sexually

passive to having active sexual strategies and often mating with multiple males Why did it take so long to discover female active sexual strategies What prevented some researchers from engaging in sexually active females and what prompted others to develop this new knowledge The Female Turn provides a global overview of shifting perceptions about females in sexual selection research on a wide range of animals from invertebrates to primates Evolutionary biologist and feminist science scholar Malin Ah King explores this history from a unique interdisciplinary vantage point Based on extensive knowledge of the scientific literature on sexual selection and in depth interviews with leading researchers pioneers and feminist scientists in the field her analysis engages with key theoretical approaches in gender studies of science Analyzing the researchers scientific interests theoretical frameworks specific study animals technological innovations methodologies and sometimes feminist insights reveals how these have shaped conclusions drawn about sex Thereby The Female Turn shows how certain researchers gained knowledge about active females whereas others missed ignored or delayed it that is how ignorance was produced

Behaviour and Ecology of Spiders Carmen Viera, Marcelo O. Gonzaga, 2017-11-02 Within the last few decades arachnology in the Neotropical region has experienced a great development filling the knowledge gap in one of the most diverse regions of the world Nevertheless large geographical areas remain poorly sampled especially within the Amazon and new genera and species have been continuously discovered even in urban areas In congruence with the recent improvements in research several aspects of the ecology behaviour and natural history of spiders such as interactions with other predators and parasitoids social interactions dispersal patterns habitat requirements mating behaviors among others are being carefully investigated These recent contributions incorporate substantial information on the preexisting knowledge on these subjects every year Our main objective with this book is to present a summary on these new researches and on the currently knowledge on the main subjects involved in the general theme emphasizing the contribution of the rich fauna of the Neotropical region to the research of behaviour and ecology of the spiders

Advances in the Study of Behavior, 2022-04-28 *Advances in the Study of Behavior* Volume 54 highlights new advances in the field with this new volume presenting interesting chapters on Mobbing in animals a thorough review and proposed future directions Learned components of courtship a focus on gestures choreographies and construction abilities Sexual selection in the true bugs and Brain behavior relationships of cognition in vertebrates lessons from amphibians Pre Copulatory and Copulatory Courtship in Male Dimorphic Arthropods Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in *Advances in the Study of Behavior* Updated release includes the latest information on *Advances in the Study of Behavior*

Advances in the Study of Behavior Marc Naguib, 2019-03-23 *Advances in the Study of Behavior* Volume 51 provides users with the latest insights in this ever evolving field Users will find new information on a variety of species including The troublesome gift the spermatophylax as a purveyor of sexual conflict and coercion Conformity and over imitation an integrative review of two forms of hyper reliance on social learning Copulatory behavior

and genital morphology in vertebrates Sexual selection in polyandrous societies Lessons from the fowl Sensory information in social insects Evolution of female coloration what have we learned from birds in general and blue tits in particular Sexual selection and social behavior in spiders and more Serves the increasing number of scientists engaged in the study of animal behavior Makes another important contribution to the development of the field Presents theoretical ideas and research to those studying animal behavior and related fields

Rules and Exceptions in Biology: from Fundamental Concepts to Applications Alfredo V. Peretti, Lucía S. Calbacho-Rosa, Paola A. Olivero, Mariela A. Oviedo-Diego, David E. Vrech, 2024-05-17

This is the first book to cover and explore the rules and exceptions in biology It presents past and current perspectives on the subject and discusses the various situations of transition from rule to exception and vice versa In doing so the book fills a gap in the scientific literature and stimulates useful and valuable discussions among researchers working in biology worldwide The chapters begin with a theoretical framework followed by the main topic s or question s and a summary of previous work on the topic Examples are discussed with concluding remarks and suggestions for future research A section with key concepts is included at the end of each chapter allowing the reader to jump directly to the most important findings or observations Each chapter is written to be used as a reference by graduate students and professionals from a variety of scientific disciplines e g behavior ecology evolution and systematics

Dragonfly Behavior Georg Ruppell, Dagmar Hilfert-Ruppell, 2024-12-09 This book is the first to allow you to experience the details of the ultra fast lives of dragonflies these large beautiful flying insects through an abundance of unique snapshots and image sequences Dragonflies are world champions of flight bionic wonders they reveal much about the mysteries of evolution We witness their social interaction and appreciate their success over three hundred million years Dragonflies what an evocative name are easy to observe even for beginners About 80 species live in Germany and every body of water is home to a few They are not shy do not sting and often come very close Perhaps you will fall in love with dragonflies just like the two authors who have been studying them for over 30 years With the knowledge in this book you will look at dragonflies in a completely novel way About the Authors Georg Ruppell was Professor of Behavioral Ecology at the Technical University of Braunschweig and has supervised over 300 studies with his working group many of them on dragonflies It was the quick reaction training he got through his teenage sporting activities he finds that helped him to be constantly alert to the abrupt flight movements around him He was the first biologist in the world to take up the field study of bird flight using slow mo and subsequently apply his expertise to dragonflies He met his wife Dagmar Hilfert Ruppell on a research trip to the dragonflies of Japan Dagmar Hilfert Ruppell has been studying and filming dragonflies for 30 years She is particularly fond of damselflies about which she wrote her doctoral thesis She has developed infinite patience when filming to capture new behaviors in close up She is also the inspired driving force behind their numerous trips all around the world

Courtship and Mate-finding in Insects Raymond J.C. Cannon, 2023-06-30 This book explores mate finding and courtship behaviour in the insect world in all its subtlety and diversity Insects engage in

courtship as much or as little as any other animal they have songs and dances and all manner of instruments and ornaments to attract and court the opposite sex Insects have evolved complex chemical and acoustic communication systems sending fragrant messages visual signals and subtle vibrations to attract and persuade Insects also have many different ways and means of choosing or rejecting mating partners This beautifully illustrated book shows the incredible variety of courtship behaviours and celebrates the wonderful natural history of a wide range of insects Varieties of courtship can occur before during and even after copulation and numerous examples of the different mating strategies used are presented This landmark volume will be of interest to students of biology entomologists naturalists and anyone with a desire to know more about the love lives of the small creatures with which we share the planet **Mammalian Sexuality** Alan F. Dixson, 2021-06-03 The first detailed account of post copulatory sexual selection and the evolution of reproduction in mammals

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