

# **Sperm Competition** and Its Evolutionary Consequences in the Insects

**LEIGH W. SIMMONS**



MONOGRAPHS IN BEHAVIOR AND ECOLOGY

# Sperm Competition In Birds Evolutionary Causes And Consequences

**Paul M. Hocking**



## **Sperm Competition In Birds Evolutionary Causes And Consequences:**

*Sperm Competition in Birds* T. R. Birkhead, Anders Pape Møller, 1992 Sperm competition is a central part of sexual selection and will therefore be of interest to all behavioral ecologists since the topics discussed here include many that are applicable to other animal groups The text is supported by numerous photographs diagrams tables and outstanding illustrations by David Quinn *Sperm Competition in Birds* addresses the following topics Both functional and causal aspects of the subject The importance of sperm competition in different avian mating systems The relationship between sperm competition and male and female reproductive anatomy and physiology copulation patterns and paternity guards The costs and benefits of copulating with multiple partners for both males and females The relationship between multiple mating and paternity and the far reaching evolutionary consequences of sperm competition *Sperm Competition and Its Evolutionary Consequences in the Insects* Leigh W. Simmons, 2019-12-31 One hundred years after Darwin considered how sexual selection shapes the behavioral and morphological characteristics of males for acquiring mates Parker realized that sexual selection continues after mating through sperm competition Because females often mate with multiple males before producing offspring selection favors adaptations that allow males to preempt sperm from previous males and to prevent their own sperm from preemption by future males Since the 1970s this area of research has seen exponential growth and biologists now recognize sperm competition as an evolutionary force that drives such adaptations as mate guarding genital morphology and ejaculate chemistry across all animal taxa The insects have been critical to this research and they still offer the greatest potential to reveal fully the evolutionary consequences of sperm competition This book analyzes and extends thirty years of theoretical and empirical work on insect sperm competition It considers both male and female interests in sperm utilization and the sexual conflict that can arise when these differ It covers the mechanics of sperm transfer and utilization morphology physiology and behavior Sperm competition is shown to have dramatic effects on adaptation in the context of reproduction as well as far reaching ramifications on life history evolution and speciation Written by a top researcher in the field this comprehensive up to date review of the evolutionary causes and consequences of sperm competition in the insects will prove an invaluable reference for students and established researchers in behavioral ecology and evolutionary biology **Sperm Competition and Sexual Selection** Tim R. Birkhead, Anders Pape Møller, 1998-08-12 *Sperm Competition and Sexual Selection* presents the intricate ways in which sperm compete to fertilize eggs and how this has prompted reinterpretations of breeding behavior This book provides a theoretical framework for the study of sperm competition which is a central part of sexual selection It also discusses the roles of females and the relationships between paternal care in sperm competition The chapters focusing on taxonomic development are diverse and cover all the major animal groups both vertebrate and invertebrate and plants The final chapter provides an overview discussing the relationship between sperm competition and sexual selection in terms of both function and mechanism and how these translate into species fitness This book will be of

prime interest to behaviorists ecologists and evolutionary biologists suggesting new avenues of research and new ways of approaching old problems The only up to date summary of a central and popular subject Well known editors and authors Provides a theoretical framework for the study of sperm competition Covers all major animal groups Includes a chapter on plants

**Sperm Competition in Humans** Nicholas Pound,2006 This volume presents the intricate ways in which sperm compete to fertilize eggs and how this has prompted reinterpretations of breeding behavior from a biological perspective Sperm Competition in Humans Classic and Contemporary Readings provides a theoretical framework for the study of sperm competition and also discusses the roles of females and the relationships between paternal care in sperm competition The chapters focus on everything from evolutionary biology to taxonomic development Advances in the Study of Behavior

Marc Naguib,John C. Mitani,H. Jane Brockmann,Leigh W. Simmons,Timothy J. Roper,2011-05-24 Annotation 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 thematic volume makes another important contribution to the development of the field by bringing together material that aggregates studies conducted on the behavior of tropical animals Advances in the Study of Behavior is now available online at ScienceDirect full text online from volume 30 onward

**Sexual Selection in Primates** Peter M. Kappeler,Carel P. van Schaik,2004-05-13 Sexual Selection in Primates provides an account of all aspects of sexual selection in primates combining theoretical insights comprehensive reviews of the primate literature and comparative perspectives from relevant work on other mammals birds and humans Topics include sex roles sexual dimorphism in weapons ornaments and armaments sex ratios sex differences in behaviour and development mate choice sexual conflict sex specific life history strategies sperm competition and infanticide The outcome of the evolutionary struggle between the sexes the flexibility of roles and the leverage of females are discussed and emphasised throughout Sexual Selection in Primates is aimed at graduates and researchers in primatology animal behaviour evolutionary biology and comparative psychology

*Biology of Breeding Poultry* Paul M. Hocking,2009 This book reviews the biological science and background to breeding meat poultry specifically broiler turkey and duck These commercial birds have been changed by genetic selection to such an extent that they are substantially different from traditional breeds and laying hens Covering science management and husbandry systems this book is an essential reference for researchers and students in animal science as well as technical staff of breeding companies and poultry meat producers Part of the Poultry Science Symposium Series

**Advances in the Study of Behavior** H. Jane Brockmann,Timothy J. Roper,Marc Naguib,Katherine E. Wynne-Edwards,Chris Barnard,John Mitani,2011-07-29 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 This volume reflects many of the current themes in

animal behavior including the evolution of social behavior sexual selection and communication It also reflects controversial topics on which the authors provide interesting new insights Advances in the Study of Behavior is now available online at ScienceDirect full text online from volume 30 onwards The Archaeology of Human Ancestry Stephen Shennan,James Steele,2005-08-15 Human social life is constrained and defined by our cognitive and emotional dispositions which are the legacy of our foraging ancestors But how difficult is it to reconstruct the social systems and cultural traditions of those ancestors The Archaeology of Human Ancestry provides a stimulating and provocative answer in which archaeologists and biological anthropologists set out and demonstrate their reconstructive methods Contributors use observations of primates and modern hunter gatherers to illuminate the fossil and artefactual records Thematic treatment covers the evolution of group size group composition and the emotional structure of social bonds sexual dimorphism and the sexual division of labour and the origins of human cultural traditions The Archaeology of Human Ancestry is an essential introduction to the subject for advanced undergraduates and researchers in archaeology and biological anthropology It will also be used by workers in psychology sociology and feminist studies as a resource for understanding human social origins **Violent**

**Offenders: Theory, Research, Policy, and Practice** Matt DeLisi,Peter Conis,2011-07-20 Although the public interest in criminal predators is extensive the criminology of criminal predators is fragmented Violent Offenders Theory Research Policy and Practice Second Edition aims to demystify the many different types of violent offenders we hear about in the media This newly revised and updated Second Edition is a compilation of original scholarship from an international collection of applied and academic criminologists Based not only on history and academic research but also on the experiences of author Peter Conis as a 25 year veteran of law enforcement it provides students with a realistic view of why people commit violent crimes and how our criminal justice system as a whole responds to these offenders and these violent acts It contains cutting edge material on the broad category of criminal predators including homicide offenders sex offenders financial predators and conventional street criminals Unlike other texts on the subject that narrowly focus on one type of criminal e g serial killers this updated Second Edition illustrates the systemic importance of predation in antisocial behavior This book is divided into two parts part one covers the theoretical and disciplinary foundations of the study of violent behavior spanning the disciplines of sociology psychology biology and neuroscience Part two covers the policy and practice of responding to violent offenders from the insightful perspectives of people who work among them on a daily basis New and Key Features of the Second Edition Contains 10 NEW chapters 5 in theory and research and 5 in policy and practice These additions provide greater overall coverage of sociological theory evolutionary psychology theory and female offenders The section on policy and practice is organized to be consistent with the criminal justice system from law enforcement through the courts to corrections Hands on research and practitioner expertise illustrate today s study of criminal predation Provides clear explanations of how criminological theory relates to the formation of a criminal offender to help students understand the

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