

***Sperm Competition
and the Evolution of
Animal Mating Systems***

Edited by

ROBERT L. SMITH

Sperm Competition And The Evolution Of Animal Mating Systems

Todd K. Shackelford, Nicholas Pound



Sperm Competition And The Evolution Of Animal Mating Systems:

Sperm Competition and the Evolution of Animal Mating Systems Robert Lloyd Smith, 1984 Sperm competition and the evolution of animal mating strategies Male sperm competition avoidance mechanisms the influence of female interests Sperm in competition Male mating effort confidence of paternity and insect sperm competition **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

Monogamy Ulrich H. Reichard, Christophe Boesch, 2003-09-11 Why do males of some species live with a single mate when they are capable of fertilizing more than one female's eggs Why do some females pair only with one male and not with several partners Why do birds usually live in pairs and feed chicks together whilst mammals often live in larger groups with females rearing their young without male help These questions form the central theme of this book Social monogamy is a complex multi faceted phenomenon that does not always correspond with reproductive monogamy so a paired male may not necessarily be raising his own offspring Exploring the variables influencing and maintaining the fascinating diversity of social sexual and reproductive monogamous partnerships in birds mammals and humans this book provides clues to the biological roots of monogamy for students and researchers in behavioural ecology evolutionary anthropology primatology zoology and ornithology *Sperm Competition in Humans* Todd K. Shackelford, Nicholas Pound, 2006-11-22 In species with internal fertilization sperm competition occurs when the sperm of two or more males simultaneously occupy the reproductive tract of a female and compete to fertilize an egg Parker 1970 A large body of empirical research has demonstrated that as predicted

by sperm competition theory males and females in many species possess anatomical behavioral and physiological adaptations that have evolved to deal with the adaptive challenges associated with sperm competition. Moreover in recent years evolutionary biologists and psychologists have begun to examine the extent to which sperm competition may have been an important selective pressure during human evolution. Some research has suggested that male humans like males of many bird insect and rodent species might be able to adjust the number of sperm they inseminate according to the risk of sperm competition. Other research has examined whether such responses might be accompanied by psychological changes that motivate human males to pursue copulations when the risk of sperm competition is high. Furthermore there is research suggesting that aspects of human penile anatomy might function to enhance success in sperm competition. Much of this work has been controversial some of the findings have been disputed and others have been greeted with skepticism. However the idea that some aspects of human psychology and behavior might best be understood as adaptations to sperm competition remains intriguing and in certain cases very persuasive.

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

Current Topics in Developmental Biology, 1996-05-23 This volume continues the custom of addressing developmental mechanisms in a variety of experimental systems by offering timely reviews and incisive analysis of key research in developmental biology The conceptual sequence of topics begins with cell cycle regulation during development and differentiation continues with the role of the epididymis and with sperm competition gastrulation and embryonic stem cells and concludes with considerations of differentiation in muscle cells and neurons This volume not only is valuable to researchers at the forefront of animal development but also is a friendly introduction to students and professionals who want an introduction to cellular and molecular mechanisms of development

Sperm Competition in Butterflies Mamoru Watanabe, 2016-01-06 This book describes about 30 years of theoretical empirical and experimental work on butterfly sperm competition It considers the reproductive morphology and sperm utilisation interests of males and females which shape the mating tactics of each sex Females of most butterfly species mate multiple times throughout their lives The reasons are explored as well as the numerous adaptations males have developed to prevent future mating and fertilisation by the sperm of other males In particular this volume focuses on the role of apyrene sperm Eupyrene and apyrene sperm dimorphism is most likely a key factor in sperm competition and the study in butterflies promotes understanding of sexual selection across animal species with sperm polymorphism This book describing the evolutionary causes and consequences of the sperm competition in butterflies is a recommended read for students of behavioural ecology

Sperm Biology Scott S. Pitnick, Dave J. Hosken, Tim R. Birkhead, 2008-11-21 Sperm Biology represents the first analysis of the evolutionary significance of sperm phenotypes and derived sperm traits and the possible selection pressures responsible for sperm egg coevolution An understanding of sperm evolution is fast developing and promises to shed light on many topics from basic reproductive biology to the evolutionary process itself as well as the sperm proteome the sperm genome and the quantitative genetics of sperm The Editors have identified 15 topics of current interest and biological significance to cover all aspects of this bizarre fascinating and important subject It comprises the most comprehensive and up to date review of the evolution of sperm and pointers for future research written by experts in both sperm biology and evolutionary biology The combination of evolution and sperm is a potent mix and this is the definitive account The first review survey of this emerging field Written by experts from a broad array of disciplines from the physiological and biomedical to the ecological and evolutionary Sheds light on the intricacies of reproduction and the coevolution of sperm egg and reproductive behavior

Reproductive Biology

and Phylogeny of Snakes Robert D. Aldridge, David M. Sever, 2016-04-19 Offering coverage of a wide range of topics on snake reproduction and phylogeny this comprehensive book discusses everything from primordial germ migration in developing embryos to semelparity death after reproduction in the asp viper Beginning with a review of the history of snake reproductive studies it presents new findings on development

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