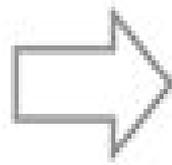


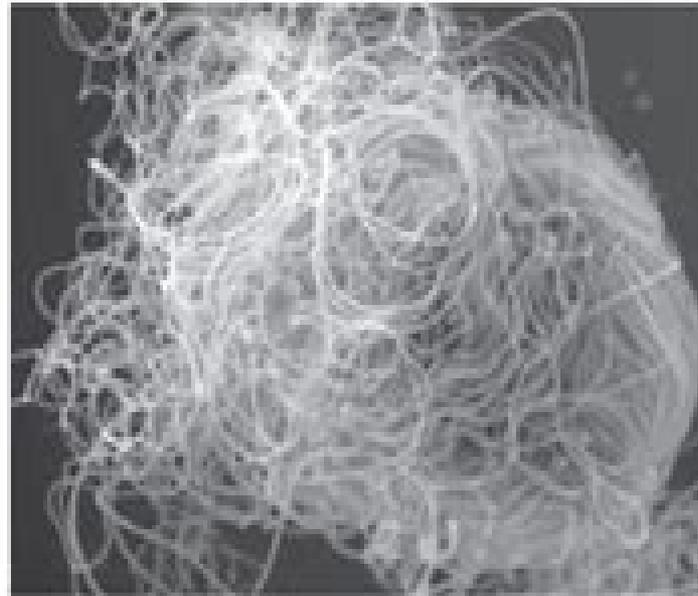
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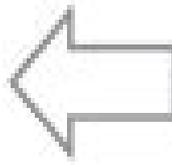
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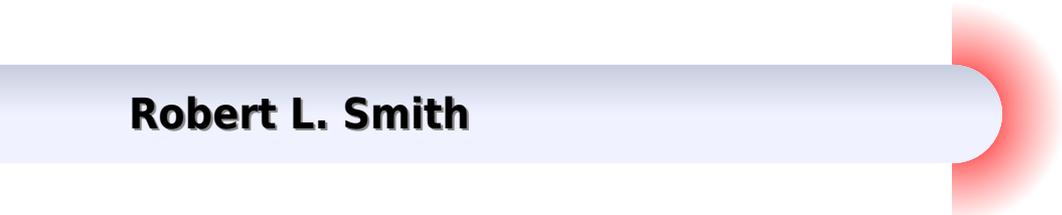
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Sperm Competition And Sexual Selection

Robert L. Smith



Sperm Competition And Sexual Selection:

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Promiscuity Tim Birkhead, 2000 Birkhead reveals a world in which males and females vie with each other as they strive to maximize their reproductive success Color illustrations

[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 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

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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

Sexual Selection and Sperm Competition in Soay Sheep Brian T. Preston, 2001

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 Sexual Selection and Sperm Competition in the Australian Maluridae Melissah Mary Rowe,2008 *Female Infidelity and Paternal Uncertainty* Steven M. Platek,Todd K. Shackelford,2006-08-03 Although commonly believed that males are more promiscuous than females new research has revealed that female infidelity is a common occurrence throughout the animal kingdom *Female Infidelity and Paternal Uncertainty* is the first book to address how males deal with the consequences of female infidelity and the strategies they have evolved to try to avoid the possibility of raising an offspring they unknowingly did not sire Each chapter deals with a specific evolved strategy developed to aid males in either limiting opportunities for their mate to be unfaithful or to correct the by products of infidelity should it occur With sections including mate guarding intra vaginal tactics and paternity assessment this book will appeal to researchers and graduate students in behavioral biology evolutionary psychology human sexuality anthropology sociology reproductive health and medicine Proceedings ,2005 Encyclopedia of Animal Behavior ,2009-04-01 The Encyclopedia of Animal Behavior Three Volume Set has engaged with great success the efforts of many of the best behavioral biologists of the 21st century Section editors drawn from the most accomplished behavioral scientists of their generation have enrolled an international cast of highly respected thinkers and writers all of whom have taken great care and joy in illuminating every imaginable corner of animal behavior This comprehensive work covers not only the usual topics such as communication learning sexual selection navigation and the history of the field but also emerging topics in cognition animal welfare conservation and applications of animal behavior The large section on animal cognition brings together many of the world s experts on the subject to provide a comprehensive overview of this rapidly developing area Chapters relating to animal welfare give a full view of behavioral interactions of humans with companion animals farm animals and animals in the wild The key role of animal behavior in conservation biology receives broad attention including chapters on topics such as the effects of noise pollution captive breeding and how the behavioral effects of parasites interacts with conservation issues Animal behavior in environmental biology is highlighted in chapters on the effects of endocrine disruptors on behavior and a large number of chapters on key species such as wolves chimpanzees hyenas and sharks Clear accessible writing complements a wealth of information for undergraduate college students about the essential concepts of animal behavior and the application of those concepts across the field In depth coverage of concepts methods and exemplar organisms serves the needs of graduate

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Evolution and Psychology Scott A. MacDougall-Shackleton,2023-12-20 Evolution and Psychology is a critical exploration of how evolutionary approaches can be used to understand the human mind and behaviour Written for undergraduate students in the social sciences this text provides an accessible introduction to foundational concepts in evolutionary biology It then explores evolutionary perspectives on key psychological topics such as cognition development group dynamics mate choice language and communication psychopathology and culture An interdisciplinary approach is woven throughout integrating evolutionary psychology with insights from behavioural ecology anthropology genetics and neuroscience You will learn to think critically about evolutionary explanations with Warning Flag features throughout the text that address frequently misunderstood topics common fallacies and historical misuses and abuses of applying evolutionary theory to human behaviour This is an essential read for students of Evolutionary Psychology and anyone looking for a contemporary overview of this complex and captivating field Scott A MacDougall Shackleton is Professor of Psychology at Western University

Male Choice, Female Competition, and Female Ornaments in Sexual Selection Ingo Schlupp,2021-05-31 When Charles Darwin first proposed Sexual Selection Theory he suggested two mechanisms competition among males and choice by females Although their importance is long established and extremely well understood their mirror images have remained largely underappreciated males also choose and females also compete The combination of male mate choice MMC and female competition FC may be one of the most overlooked yet important and intriguing phenomena in modern sexual selection theory This novel text reviews our current understanding of MMC and FC highlighting the important

connections between them It places both concepts in the context of related fields such as female choice mating systems and sexual selection theory more broadly A truly holistic approach is provided which takes all the relevant elements into consideration especially the relative roles of MMC and FC female ornamentation their evolutionary consequences and their genetic basis Considering male mate choice and female competition in this way as effectively two sides of the same coin creates a powerful paradigm for a more complete understanding of sexual selection Male Choice Female Competition and Female Ornaments in Sexual Selection will be suitable for both graduate students and researchers interested in sexual selection from an evolutionary psychological and anthropological perspective It will also appeal to a broader audience of behavioural ecologists and evolutionary psychologists

The American Naturalist ,2008

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Science John Michels (Journalist),1909 Since Jan 1901 the official proceedings and most of the papers of the American Association for the Advancement of Science have been included in Science

Canadian Journal of Zoology ,2013

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[Sexual Conflict : a New Paradigm?](#) David T. Jones,Robert Brian Heap,Simon Wessely,Tracey Chapman,Michael J. E. Sternberg,Tom Tregenza,Janet M. Thornton,Nina Wedell,2006

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