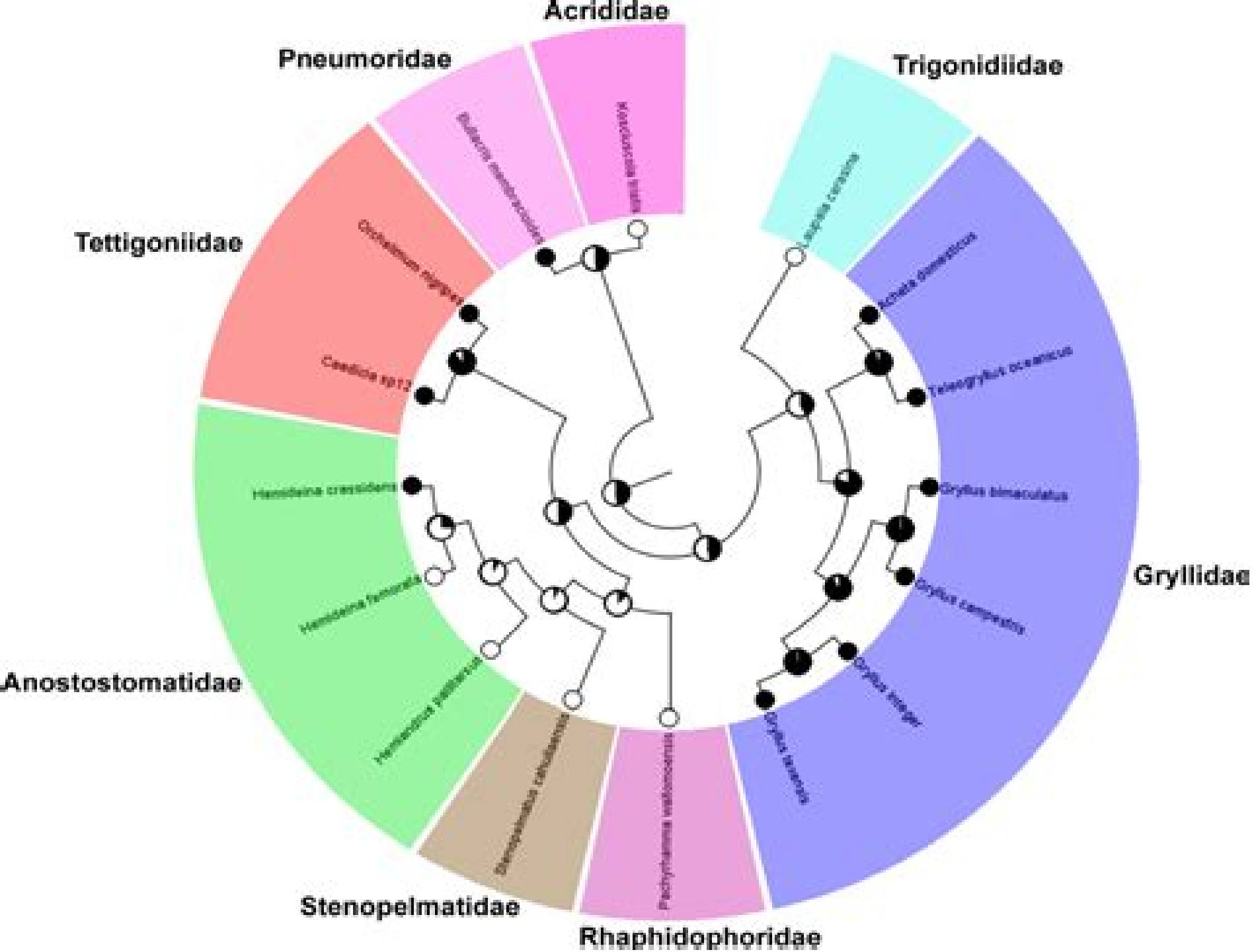




Orthopteran Mating Systems

Darryl T Gwynne, Glenn K Morris



Orthopteran Mating Systems:

Orthopteran Mating Systems Darryl T Gwynne, Glenn K Morris, 1983 **Orthopteran Mating Systems** Darryl T Gwynne, Glenn K Morris, 1983 **The Evolution of Orthopteran Mating Systems and the Reproductive Ecology of New Zealand Cave Wētā** Murray Fea, 2018 Sexual selection has long been recognised as driving the evolution of diverse morphological and behavioural traits in animals Decades of concerted research into the topic has uncovered reproductive adaptations ranging from the beautiful to the horrific and insects provide some of the most striking examples from all parts of that spectrum The diversity of insects their mating systems and their reproductive adaptations has made them crucial to our understanding of sexual selection and the evolution of sexual reproduction itself Their natural amenability to observation and experimentation has granted us many useful and informative model systems for that endeavour In particular the Orthoptera crickets grasshoppers katydids w t and their allies have provided many model species for the study of acoustic mate calling nuptial provisioning intrasexual combat the economics of reproduction that contribute to sexual conflict and countless other topics in the realm of reproductive ecology The current research delves into the diversity of mating system traits exhibited by the order with a comprehensive review of the literature as well as targeted evolutionary hypothesis testing via the phylogenetic comparative method I then investigate in detail the reproductive ecology of New Zealand cave w t which are fascinating representatives of a globally distributed but hardly studied orthopteran family the Rhaphidophoridae Firstly I investigate orthopteran reproductive ecology with analyses of sexual evolution across the order I test for phylogenetic signal ancestral character states and correlated evolution with data derived from a comprehensive literature search using a synthetic supertree assembled for that purpose by tree grafting The results of this approach indicated trends of strong evolutionary conservatism in orthopteran sexual traits and a probable ancestral mating system that involved protandry male male combat and mate guarding acoustic mate calling and female biased sexual size dimorphism but without coercive mating or exaggerated weaponry Although I was able to model the evolution of these traits phylogenetic comparisons did not provide evidence in support of correlated evolution between them I then move from broad questions to detailed examination of sexually dimorphic antennal structures in New Zealand cave w t Rhaphidophoridae Pachyrhamma sp Using scanning electron microscopy I describe the morphology of microsensory hairs sensilla in P waitomoensis and P acanthocera and test for sexual dimorphism in the length as well as presence and absence of these This reveals numerous sensilla with unique morphology that may be particular to the group and suggests possible sensory functions based on their individual characteristics In addition I provide the first detailed examination of intriguing horn like antennal cuticular structures that are restricted to males of these species The two kinds of protrusive structure have some qualities that suggest a secretory function indicating that male pheromonal communication may be an important aspect of those species ecology Subsequently I investigate New Zealand cave w t behavioural ecology with field based approaches to observing P waitomoensis I examine the role of sexually

dimorphic elongated hind legs in that species in the context of mate guarding a central topic in the study of sexual selection Interestingly although males doggedly guard their mates with their exaggerated hind legs the limbs do not appear to function in warding off rivals Because of that observation I tested the novel hypothesis that the mate guarding behaviour and morphology of male *P. waitomoensis* instead serves to reduce disturbance to females by organisms other than sexual rivals of the male Through several simple experiments with the w t in their natural environment I show a reduction in pair duration when females are disturbed a disturbance protection effect of male presence a mating advantage to males that can guard their mates for longer and a negative correlation between male hind leg length and the likelihood of disturbance to the female Taken together these results provide an example of a mate guarding role in exaggerated trait evolution and a novel function of mate guarding that may occur in other taxa In addition this highlights the importance of considering environmental context when examining behaviour as well as raising the possibility that more potential female benefits of mate guarding may be observed if study organisms are observed in nature After examining mate guarding I continue the investigation of exaggerated trait evolution in *P. waitomoensis* by looking at the additional role of their elongated hind legs in male male combat and competitive assessment By comparing morphometric data with video recordings of intrasexual contest behaviour in the field I showed that males with longer legs have greater chances of victory in combat In addition when the difference in leg length between contestants was greater fights escalated to a lesser degree The observed relationship between contestant leg length and contest escalation matched the predictions of the selfonly model of assessment according to current contest theory The results highlight the fact that fighting and weaponry are an important part of cave w t reproductive ecology and indicate that other Rhabdophoridae with similar morphology may represent an overlooked trove of examples for exaggerated weaponry research in the Orthoptera Lastly I approach the question of exaggerated weapon evolution from a different angle Using software designed for entertainment war gaming I edited matches in order to pitch artificial intelligence contestants against one another under varied experimental conditions By doing so I was able to test the hypothesis that one on one duel scenarios favour arms superiority a potential explanatory factor in the presence of extreme weaponry among various taxa and in the occurrence of arms races in non animal systems I found that strong contestants enjoyed a greater advantage when fighting head to head in contrast to the lack of any advantage in more chaotic skirmishes with multiple opponents The advantage of superior weaponry showed the same pattern in two different forms of contest This suggests that conflict scenarios that are restricted to duels may contribute to weaponry escalation in diverse systems I thereby demonstrate a novel technique for approaching a difficult to test broad evolutionary question and show the potential for widely available and user friendly consumer software to provide simulators for approaching scientific questions Overall this thesis summarises sexual selection research in the Orthoptera offers a hypotheses regarding ancestral mating systems in the order provides new data on a poorly studied family and tests a general hypothesis in a novel way As well as reviewing and

analysing existing knowledge and providing new discoveries in an overlooked group this research opens and highlights novel avenues for investigation of orthopteran reproductive ecology the examination of sexual selection and the evolution of extreme weaponry

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

Sensory Systems and Communication in Arthropods

Wiese, Gribakin, 2013-11-21 **Acoustic Communication in Insects and Anurans** H. Carl Gerhardt, Franz Huber, 2002-07-15 Walk near woods or water on any spring or summer night and you will hear a bewildering and sometimes deafening chorus of frog toad and insect calls How are these calls produced What messages are encoded within the sounds and how do their intended recipients receive and decode these signals How does acoustic communication affect and reflect behavioral and evolutionary factors such as sexual selection and predator avoidance H Carl Gerhardt and Franz Huber address these questions among many others drawing on research from bioacoustics behavior neurobiology and evolutionary biology to present the first integrated approach to the study of acoustic communication in insects and anurans They highlight both the common solutions that these very different groups have evolved to shared challenges such as small size ectothermy cold bloodedness and noisy environments as well as the divergences that reflect the many differences in evolutionary history between the groups Throughout the book Gerhardt and Huber also provide helpful suggestions for future research

[Sound Communication in Insects](#) Russell Jurenka, 2021-11-17 Advances in Insect Physiology Volume 61 highlights new advances in the field with this new volume presenting interesting chapters on a variety of timely topics including Acoustic signaling in

Orthoptera Sound production in *Drosophila melanogaster* and Communication by surface borne mechanical waves in insects Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Insect Physiology series **Katydid and Bush-cricket** Darryl T. Gwynne, 2001 Sexual Selection Malte Andersson, 2019-12-31 Bright colors enlarged fins feather plumes song horns antlers and tusks are often highly sex dimorphic Why have males in many animals evolved more conspicuous ornaments signals and weapons than females How can such traits evolve although they may reduce male survival Such questions prompted Darwin's perhaps most scientifically controversial idea the theory of sexual selection It still challenges researchers today as they try to understand how competition for mates can favor the variety of sex dimorphic traits Reviewing theoretical and empirical work in this very active field Malte Andersson a leading contributor himself provides a major up to date synthesis of sexual selection The author describes the theory and its recent development examines models methods and empirical tests and identifies many unsolved problems Among the topics discussed are the selection and evolution of mating preferences relations between sexual selection and speciation constraints on sexual selection and sex differences in signals body size and weapons The rapidly growing study of sexual selection in plants is also reviewed This volume will interest students teachers and researchers in behavioral ecology and evolutionary biology **Insect Reproduction** S. R. Leather, 2018-01-18 This book consisting of ten review chapters contributed by leading workers in their respective fields from around the world covers the whole subject of insect reproduction It begins with the basic physiological questions of insect reproduction moves on to discuss the new advances seen in the fields of behavioural and ecological mechanisms and culminates by examining the recent work on evolutionary biology and its application in the field Each chapter although including a brief review of the basic seminal work focuses mainly on the advances made within the last ten years and highlights those areas in which the respective authors see the greatest scope for further important advances

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