

# Evolution Mating Systems In Insects

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### Mating Systems in Insects and Arachnids

The Evolution of Mating Systems in Insects and Arachnids Edited by JAE C CHOE Museum of Zoology, University of Michigan, USA Seoul National University, Korea and BERNARD] CRESPI Simon Fraser University, Canada 1qq t ~CAMBRIDGE V

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### The evolution of insect mating systems, thirty years after

BOOK REVIEW doi:101111/evo12647 The evolution of insect mating systems, thirty years after Russell Bonduriansky<sup>1,2</sup> 1Evolution and Ecology Research Centre and School of Biological, Earth and Environmental Sciences, University of New South Wales, Sydney NSW 2052, Australia

### Cambridge University Press 0521589762 - The Evolution of ...

0521589762 - The Evolution of Mating Systems in Insects and Arachnids Edited by Jae C Choe and Bernard J Crespi Excerpt More information Title: 0521580293pdf Created Date:

### The evolution of mating systems in bark and ambrosia ...

Multiple origins of mating systems otherwise rare in insects-various forms of monogamy and harem polygyny-are an especially exciting feature of this

group, though the very existence of these mating systems in bark and ambrosia beetles has hitherto escaped the notice of most evolutionary biologists interested in sexual behaviour

### **Insect Mating Systems**

Insect Mating Systems • Today's lecture concerns mating systems in insects This is a very broad topic and a single lecture cannot really do it justice I will limit the lecture to a couple of general principles that apply to nearly all mating systems and then focus on three aspects of mating systems in insects that use acoustical signals:

### **Mating Strategies Of Tropical Insects**

6 Evolution of mating systems of tropical insects 61 Heliconius Butterflies 62 Dung Beetles 7 Health and economic issues of mating strategies in tropical insects 71 Tephritid Flies 72 Malaria Acknowledgments Bibliography Biographical Sketches Summary The set of mating strategies in a given population is known as the mating system It has

### **The Evolution of Mating Dispersion in Insects**

The evolution of mating dispersion in insects Per-Olof Wickman and Ronald L Rutowski Wickman, P-O and Rutowski, R L 1999 The evolution of mating dispersion in insects - Oikos 84: 463-472 In insects with non-resource based mating systems, the dispersion of sites where matings occur may vary from highly clumped (leks) to widely dispersed

### **The evolution of plant-insect mutualisms**

plant evolution First, reproduction of many vascular plants is clearly linked with attracting insect mutualists Second, studying plant-insect mutualisms sheds light on the evolution and function of a diverse suite of plant traits, as well as on plant mating systems Third, ...

### **Mating System Evolution**

Evolution of Mating Systems Genetic Basis • Dominance • Overdominance Purging of Genetic Load • Selfer >> Outcrosser • Selfer = Outcrosser The relationship between mating system and the genetics of inbreeding depression Carr, DE, and MR Dudash 2003 Recent approaches into the genetic basis of inbreeding depression in plants

### **The evolution of male mate choice in insects: a synthesis ...**

factors thought to underlie the evolution of male mate choice (especially parental investment and mate quality variance) is still unresolved Here I synthesize the empirical evidence and theory pertaining to the evolution of male mate choice and sex role reversal in insects, and examine the potential for male mating

### **Fly mating systems**

evolution of mating systems and related traits were inferred from parsimonious reconstruction of character change on a phylogenetic tree of all Diptera We could then test the role of ecology and other factors by examining the significance of correlated change among phylogenetically independent contrasts (Felsenstein 1985)

### **The evolution of harem polygyny in insects**

The evolution of harem polygyny in insects Participants: Dr Matthew Symonds (PI), Dr Greg Holwell (University of Auckland), A/Prof John Arnould Aims and Background: Harem polygyny is a mating system where individual males monopolise access to groups of females either by defending a ...

### **Ecology, Sexual Selection, and the Evolution of Mating Systems**

ences on the evolution and expression of avian mating systems We believe these predictions are also broadly applicable to The greater the many

mammalian groups, as well as to: x, the more intense certain insects and lower vertebrates Sexual selection is They are less applicable to strongly "r"-

### **THE EVOLUTION OF MULTIPLE MATING IN ARMY ANTS**

comparative analysis of army ant mating system evolution OBJECTIVES OF THE PRESENT STUDY Our new data on the mating systems of two army ant genera that have not been investigated before allow us to infer whether polyandry has evolved once, as is the case in the other groups of polyandrous eusocial Hymenoptera, or several times indepen-

#### **Crespi, B. (2007) Evolution of social behaviour in ...**

Crespi, B (2007) Evolution of social behaviour in Crustacea (2007) E Duffy and M Thiel (eds) Evolutionary Ecology of Crustacea, Oxford University Press (in press) "Comparative Evolutionary Ecology of Social and Sexual systems: Water-breathing Insects Come of Age" Bernard J Crespi Behavioral Ecology Research Group

#### **Evolution of Haplodiploidy: Models for Inbred and Outbred ...**

of how all sexual systems operate and in understanding the elusive adaptive basis of sexuality Haplodiploidy has been assigned a central role in the evolution of sociality in insects (Hamilton 1963, 1964a, b; but for a contrasting view, see