

Social insects - Types, Examples with Social life, Importance, Advantages



Social Insects

Paul Schmid-Hempel

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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world authority on the subject sums up our knowledge of the social insects It inquires what are the social insects and what it is that makes us call them social Terebrantia aculeata wasps bees ants and termites are discussed in a succession of chapters showing how they have evolved to how great an extent they have developed and what are the peculiarities of their evolution Polymorphism the Social Medium Guests and Parasites of the Social Insects are other subjects discussed in this fascinating

book *Defensive Mechanisms in Social Insects* Henry R. Hermann, 1984 **Social Insects V1** Henry Hermani, 2012-12-02 Social Insects Volume I is a part of a four volume discourse and collection of research on insect sociobiology This volume covers the modern theory with certain concepts of insect sociality particularly through genetic behavioral and evolutionary pathways This book consists of eight chapters which mostly deal with the sociality of insects and other aspects The first chapter provides an introduction to the subject of insect sociality Topics in this chapter include definition of sociality types of social insects and insect sociobiology The next chapter focuses on the origin and evolution of insect sociality and discusses the theories of origin of sociality The following chapters discuss the aspects of social insects in terms of antiquity and territoriality Caste differentiation and division of labor is also emphasized as well as the genetics of sociality The last two chapters deal with the larvae of the social hymenoptera and the social and evolutionary significance of social insect symbionts This volume is a good reference for students and teachers in the study of entomology zoology and biology

Debugging the Link Between Social Theory and Social Insects Diane M. Rodgers, 2008-11-15 During the nineteenth and early twentieth centuries natural and social scientists began comparing certain insects to human social organization Entomologists theorized that social insects such as ants bees wasps and termites organize themselves into highly specialized hierarchical divisions of labor Using a distinctly human vocabulary that reflected the dominant social structure of the time they described insects as queens workers and soldiers and categorized their behaviors with words like marriage slavery farming and factories At the same time sociologists working to develop a model for human organization compared people to insects relying on the same premise that humans arrange themselves hierarchically In Debugging the Link between Social

Theory and Social Insects Diane M Rodgers explains how these co constructed theories reinforced one another thereby naturalizing Western conceptions of race class and gender as they gained prominence in popular culture and the scientific world Using a critical science studies perspective not previously applied to research on social insect symbolism Rodgers attempts to debug this theoretical co construction She provides sufficient background information to accommodate readers unfamiliar with entomology including in depth explanations of the terms used in the research and discussion of social insects particularly the insect sociality scale The entire premise of sociality for insects depends on a dominant understanding of high low civilization standards particularly the tenets of a specialized division of labor and hierarchy comparisons that appear to be informed by nineteenth century colonial thought Placing these theories in a historical and cross cultural context Rodgers explains why hierarchical ideas gained prominence despite the existence of opposing theories in the literature and how they resulted in an inhibiting vocabulary that relies more heavily on metaphors than on description Such analysis is necessary Rodgers argues because it sheds light both on newly proposed scientific models and on future changes in human social structures Contemporary scientists have begun to challenge the traditional understanding of insect social organization and to propose new interdisciplinary models that combine ideas about social insect and human organizational structure with computer technologies Without a thorough understanding of how the old models came about residual language and embedded assumptions may remain and continue to reinforce hierarchical social constructions This intriguing interdisciplinary book makes an important contribution to the history and future of science and sociology

Social Insects
V3 Henry Hermani,2012-12-02 Social Insects Volume III emphasizes the insect symbionts that represent a very complex group of organisms with very diverse habits This volume primarily focuses on various types of bees and their sociality This book consists of four major chapters where the first chapter represents the conclusion of discussion on social insect phenomena The three remaining chapters discuss in detail the biology of the featured eusocial insects Chapter 1 includes a discussion on insects and other arthropods The following chapters focus on various types of bee including bumble bees honey bees and stingless bees Chapter 2 focuses on the behavior and ecology of bumble bees whereas Chapters 3 and 4 discuss in detail the different biological aspects of honey and stingless bees respectively Topics include the evolution of sociality colony caste differentiation and distribution of these species Students and researchers interested in the study of bees will find this book very valuable

Debugging the Link between Social Theory and Social Insects Diane M. Rodgers,2008-11-15 During the nineteenth and early twentieth centuries natural and social scientists began comparing certain insects to human social organization Entomologists theorized that social insects such as ants bees wasps and termites organize themselves into highly specialized hierarchical divisions of labor Using a distinctly human vocabulary that reflected the dominant social structure of the time they described insects as queens workers and soldiers and categorized their behaviors with words like marriage slavery farming and factories At the same time sociologists working to develop a model for human organization

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Genomics, Physiology and Behaviour of Social Insects, 2015-03-26 Physiology Behavior Genomics of Social Insects provides comprehensive information on the social insect groups described including new and unique reviews on emerging model social organisms The book s interdisciplinary approach integrates behavior genomics and physiology providing readers with great insights into the present state of a rapidly expanding area of research It also discusses areas where new research tools will bring hope to longstanding problems Provides the latest research on the genomics behavior and physiology of social insects Presents diverse and authoritative syntheses on the relationship between genomics physiology and the fascinating behavior of social insects Takes an in depth look of the current state of social insect research and its future path

Ants, Bees, and Other Social Insects Kris Hirschmann, 2004 Explores the world of social insects with an emphasis on ants and bees

Caste and Ecology in the Social Insects George F. Oster, Edward O. Wilson, 1978 In this pathbreaking and far reaching work George Oster and Edward Wilson provide the first fully developed theory of caste evolution among the social insects Furthermore in studying the effects of natural selection in generally increasing the insects ergonomic efficiency they go beyond the concentration of previous researchers on the physiological mechanisms of the insects and turn our attention instead to the scale and efficiency of the insects division of labor Recognizing that the efficiency of the insect colony is based

on a complex fitting of the division of labor to many simultaneous needs including those imposed by the distribution of resources and enemies around the nest. Professors Oster and Wilson are able to construct a series of mathematical models to characterize the agents of natural selection that promote particular caste systems. The social insects play a key role in the subject of sociobiology because their social organization is so rigid and can be related to genetic evolution. Because of this important consideration, the authors' work has consequences not only for entomology but also for general evolutionary theory.

Parasites in Social Insects Paul Schmid-Hempel, 1998-11-22. In addition, the author develops new insights especially in his examination of the intricate relationships between parasites and their social hosts through the rigorous use of evolutionary and ecological concepts. *Social Insects and the Environment* International Union for the Study of Social Insects.

Congress, 1990. Food Exploitation By Social Insects Stefan Jarau, Michael Hrncir, 2009-05-21. Omnipresent in virtually all

terrestrial ecosystems and of undisputed ecological and economical importance, the study of social insects is an area that continues to attract a vast number of researchers. As a consequence, a huge amount of information about their biology and ecology has accumulated. Distilling this scattered information into a highly

Information Processing in Social Insects Claire Detrain, Jean L. Deneubourg, Jacques M. Pasteels, 2012-12-06. Claire Detrain, Jean Louis Deneubourg and Jacques Pasteels. Studies on insects have been pioneering in major fields of modern biology. In the 1970s, research on pheromonal communication in insects gave birth to the discipline of chemical ecology and provided a scientific frame to extend this approach to other animal groups. In the 1980s, the theory of kin selection, which was initially formulated by Hamilton to explain the rise of eusociality in insects, exploded into a field of research on its own and found applications in the understanding of community structures, including vertebrate ones. In the same manner, recent studies which decipher the collective behaviour of insect societies might be now setting the stage for the elucidation of information processing in animals.

Classically, problem solving is assumed to rely on the knowledge of a central unit which must take decisions and collect all pertinent information. However, an alternative method is extensively used in nature: problems can be collectively solved through the behaviour of individuals which interact with each other and with the environment. The management of information, which is a major issue of animal behaviour, is interesting to study in a social life context as it raises additional questions about conflict, cooperation, trade-offs. Insect societies have proven particularly open to experimental analysis; one can easily assemble or disassemble them and place them in controllable situations in the laboratory.

The Biology of Social Insects Michael D. Breed, Charles D. Michener, Howard E. Evans, 2019-06-25. In this book, internationally known experts provide a comprehensive view of current knowledge of social insect biology, including much previously unpublished information. Particular emphasis is given to the relationships between social insects and humans; sections are devoted to economically important social insects, pollination, foraging, and the role of insects in ecosystems and agroecosystems. The authors also discuss communication behavior and caste within insect colonies. A special section focuses on the neurobiology

of social insects A series of papers considers the presocial insects which live in family groups but without caste differences Also well represented are the fields of sociobiology and the origins and evolution of social behavior The book will be valuable to agricultural scientists as well as to entomologists sociobiologists ecologists ethologists and natural historians

Endocrinologists and neurobiologists will also find important new material **Advances in Genomics and Epigenomics of Social Insects** Greg J. Hunt, Juergen R. Gadau, 2017-01-27 Social insects are among the most successful and ecologically important animals on earth The lifestyle of these insects has fascinated humans since prehistoric times These species evolved a caste of workers that in most cases have no progeny Some social insects have worker sub castes that are morphologically specialized for discrete tasks The organization of the social insect colony has been compared to the metazoan body Males in the order Hymenoptera bees ants and wasps are haploid a situation which results in higher relatedness between female siblings Sociality evolved many times within the Hymenoptera perhaps spurred in part by increased relatedness that increases inclusive fitness benefits to workers cooperating to raise their sisters and brothers rather than reproducing themselves But epigenetic processes may also have contributed to the evolution of sociality The Hymenoptera provide opportunities for comparative study of species ranging from solitary to highly social A more ancient clade of social insects the termites infraorder Isoptera provide an opportunity to study alternative mechanisms of caste determination and lifestyles that are aided by an array of endosymbionts This research topic explores the use of genome sequence data and genomic techniques to help us explore how sociality evolved in insects how epigenetic processes enable phenotypic plasticity and the mechanisms behind whether a female will become a queen or a worker *Orientation and Communication in Arthropods* Miriam Lehrer, 2013-03-07 The present volume deals with the most fascinating aspects of sensory performance studied in insects crustaceans and spiders Arthropods inhabit practically every conceivable ecological niche and are perfectly adapted to cope with the constraints of their natural habitats They move on the ground in water and in the air They use visual olfactory acoustical vibratory and tactile cues for orientation to recognize and pinpoint their target their home place a feeding site a prey or a potential mate Many arthropods use celestial skylight and terrestrial magnetic compass cues for orientation and some of them were shown to develop through experience oriented behaviours based on a variety of innate hard wired orientation mechanisms In many cases aspects of behaviour that are involved in orientation cannot be separated from inter and intraspecific communication The book brings to the fore the role of communication not only in social and sexual behaviours but also in the context of oriented locomotion Top internationally renowned scientists have contributed to this volume and have succeeded in presenting a book full of highlights which will be of great interest to workers in this field of research With contributions by F G Barth D von Helverson K E Kaissling W Kirchner M Walker M Weissburg R Campan T Collett J Zeil K Kirschfeld R Wehner M Srinivasan M Lehrer R Gadagkar Economic Impact and Control of Social Insects S. Bradleigh Vinson, 1986

Social Insects Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Social Insects**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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