

SOCIAL INSECT POPULATIONS

M V Brian

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Social Insect Populations M V Brian

**Maurice J. Tauber, Catherine A.
Tauber, Shinzō Masaki**



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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

Caste and Ecology in the Social Insects George F. Oster, Edward O. Wilson, 2020-03-31 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

Social Insect Populations Michael Vaughan Brian, 1972 **Social Insects** Wolf Engels, 2012-12-06 Evolution of Castes in Insects I BERNHARD RENSCH The evolution of organisms in the succession of generations has been primarily achieved through the appearance of new hereditary variants with minor deviations along with the development of stable structures and functions Harmful mutants were eradicated either immediately or in the subsequent generations through the process of natural selection while unharmed or advantageous ones usually survived As this process continued many new races and species developed which possessed structures and functions of a rational nature and which became increasingly independent from their environment These evolutionary tendencies were also promoted through either geographical ecological physiological or genetical isolation of populations In some phylogenetic lines there occurred an increase in the number of cells due to additional cellular divisions in the morphogenesis of structures This opened up the possibility for the development of the division of labour within cellular groups leading to more

complicated and consequently more successful functions of tissues and organs A further advancement in the adaptation of a species to its environment was made possible through specialization for certain functions of whole individuals or groups of individuals

Social Insect Populations M. V. Brian, 1965 Social Insects V2 Henry Hermeni, 2012-12-02

Social Insects Volume II is essentially a continuation and review of topics covered in Volume I The main focus of this volume is on the systematic of eusocial hymenoptera and the closely associated realms of presocial insects and social non insectan arthropods Consisting of five major chapters this volume starts with the chapter on the enemies and defense mechanisms of termites Several mechanisms are discussed in this chapter such as defense by the nest workers and soldiers Chapter 3 focuses on presocial insects and a comparison of parental care without nests and based on nests Chapter 4 discusses the sociality of Arachnida and emphasizes the patterns and evolution of sociality in Arachnida particularly spiders Two chapters discuss the social hymenoptera including its defensive mechanisms and its systematics This volume will be of great help to students and professionals in the field of entomology biology and zoology

Social Insects Henry R. Hermann, 1979 Insect sociality an introduction Origin and evolution of insect a review of modern theory Antiquity of sociality in insects Territoriality in social insects Caste differentiation and division of labor Genetics of sociality Larvae of the social hymenoptera Social and evolutionary significance of social insect symbionts

Social Insect Populations Brian M. V., 1974 *Narrow Roads of Gene Land: Volume 1: Evolution of Social Behaviour* William Donald Hamilton, 1996 Vol 1

The Social Biology of Wasps Kenneth G. Ross, Robert W. Matthews, 2018-08-06 In this edited collection 17 internationally known authorities bring together the results of recent research on the natural history ecology behavior morphology and genetics of wasps as they pertain to the evolution of social behavior The first part of the book opens with a review of the classification of the family Vespidae along with a revision of the subfamily Polistinae Seven subsequent chapters deal with the natural history and social biology of each of the major taxa of social and presocial vespids The second part of the book offers chapters on reproductive competition worker polyethism evolution of nest architecture of queen number and queen control and of exocrine glands population genetics the nutritional basis of social evolution and the nest as the locus of social life The final chapter is a comparative discussion of social behavior in the Sphecidae the only family of wasps besides the Vespidae in which well developed social behavior is known Providing a wealth of information about the biology of wasps this comprehensive up to date volume will be an essential reference for entomologists evolutionary biologists behavioral ecologists ethologists and zoologists Contributors James M Carpenter David P Cowan Holly A Downing Raghavendra Gadagkar Albert Greene James H Hunt Robert L Jeanne Makoto Matsuura Robert W Matthews Hudson K Reeve Peter Frank Roseler Kenneth G Ross J Philip Spradbery Christopher K Starr Stefano Turillazzi John W Wenzel Mary Jane West Eberhard

Production Ecology of Ants and Termites Michael Vaughan Brian, 1978 This study concentrates on the production ecology of ants and termites Ants and termites are highly socialised and their groupings in their most developed form enable them to function as large organisms

comparable with the larger mammals in their influence in ecosystems

Parasites in Social Insects Paul

Schmid-Hempel, 2019-12-31 This book analyzes for the first time how parasites shape the biology of social insects the ants wasps bees and termites Paul Schmid Hempel provides an overview of the existing knowledge of parasites in social insects Current ideas are evaluated using a broad database and the role of parasites for the evolution and maintenance of the social organization and biology of insects is carefully scrutinized 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 Schmid Hempel identifies gaps in our knowledge about parasites in social insects and uses models to develop new questions for future research In addition issues that are usually considered separately such as division of labor genetics immunology and epidemiology are placed in a common framework to analyze two of the most successful adaptations of life parasitism and sociality This work will appeal not only to practitioners in the fields of behavioral ecology and sociobiology but also to others interested in host parasite relationships or in social organisms such as apiculturists struggling to overcome the problems arising from mite infestations of honeybee colonies

The Behavioural Ecology of Ants J.H.

Sudd, N.R. Franks, 2013-03-09 This book is concerned with two problems how eusociality in which one individual forgoes reproduction to enhance the reproduction of a nestmate could evolve under natural selection and why it is found only in some insects termites ants and some bees and wasps Although eusociality is apparently confined to insects it has evolved a number of times in a single order of insects the Hymenoptera W Hamilton's hypothesis that the unusual haplodiploid mechanism of sex determination in the Hymenoptera singled this order out still seems to have great explanatory power in the study of social ants We believe that the direction indeed confinement of social altruism to close kin is the mainspring of social life in an ant colony and the alternative explanatory schemes of for example parental manipulation should rightly be seen to operate within a system based on the selective support of kin To control the flow of resources within their colony all its members resort to manipulations of their nestmates parental manipulation of offspring is only one facet of a complex web of manipulation exploitation and competition for resources within the colony The political intrigues extend outside the bounds of the colony to insects and plants which have mutualistic relations with ants In eusociality some individuals sterile workers do not pass their genes to a new generation directly Instead they tend the offspring of a close relation in the simplest case their mother

A Bibliography of Ant Systematics Philip S. Ward, Barry Bolton, William L. Brown, Steven O.

Shattuck, 1996-01-01 This bibliography is a comprehensive compilation of the literature on ant systematics Covering the period 1758 to 1995 it contains entries for approximately 8 000 publications on the taxonomy evolution and comparative biology of ants Most of the literature citations have been carefully verified and precisely dated An introductory chapter discusses the problems associated with dating a citation of taxonomic literature A list of all serials cited more than 1 300 titles and their abbreviations accompanies the bibliography

Interindividual Behavioral Variability In Social Insects

Robert L. Jeanne, 2019-04-09 This book represents empirical studies of some aspect of the phenomenon of variability in social insect behavior. It illustrates the range of ways colony members can differ from one another and interprets the variability in terms of the external environment, social context, or individual experience. **The Physiology of Insect Reproduction**

Franz Engelmann, 2013-10-22 The Physiology of Insect Reproduction provides a comprehensive coverage of insect reproductive system. The title details basic phenomena governing reproductive processes in insects with the whole spectrum of an insect reproductive cycle. The text first covers insect genitalia and proceeds to discussing sex determination. Next the selection talks about the development of unfertilized eggs in insects. The text also deals with gonadal development along with insect mating behavior. Chapter 7 details the factors that affect egg production and fecundity while Chapter 8 tackles hormonal control of egg maturation. The ninth chapter covers endocrine influence on reproduction in the male insect. The next chapters discuss oviposition, heterogony, and viviparity. The last two chapters deal with functional hermaphroditism and insect societies respectively. The book will be of great use to students and researchers in the field of entomology. Seasonal Adaptations of Insects Maurice J. Tauber, Catherine A. Tauber, Shinzō Masaki, 1986 A comprehensive discussion of the broad range of insect responses to seasonality and a critical interpretation of the scientific literature. **Organization of Insect Societies**

Jürgen Gadau, Jennifer Fewell, 2009-02-28 In this landmark volume an international group of scientists has synthesized their collective expertise and insight into a newly unified vision of insect societies and what they can reveal about how sociality has arisen as an evolutionary strategy. Jürgen Gadau and Jennifer Fewell have assembled leading researchers from the fields of molecular biology, evolutionary genetics, neurophysiology, behavioral ecology, and evolutionary theory to reexamine the question of sociality in insects. Recent advances in social complexity theory and the sequencing of the honeybee genome ensure that this book will be valued by anyone working on sociality in insects. At the same time the theoretical ideas presented will be of broad ranging significance to those interested in social evolution and complex systems.

The Superorganism Bert Holldobler, Edward O. Wilson, 2009 The Pulitzer Prize winning authors of *The Ants* render the extraordinary lives of the social insects: ants, bees, wasps, and termites in this visually spectacular volume. 110 color and 100 black and white illustrations. **The Ants** Bert Holldobler, Edward O. Wilson, 1990 This landmark work is a thoroughgoing survey of one of the largest and most diverse groups of animals on the planet. Holldobler and Wilson review in exhaustive detail virtually all topics in the anatomy, physiology, social organization, ecology, and natural history of the ants.

Reviewing **Social Insect Populations M V Brian**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Social Insect Populations M V Brian**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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