

SOCIAL INSECT POPULATIONS

M V Brian

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Social Insect Populations

Henry Hermani



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Social Insect Populations Michael Vaughan Brian, 1972 *Social Insect Populations* Brian M. V., 1974 **Social Insect Populations** M. V. Brian, 2013-10-22 *Social Insect Populations* focuses on observations on the populations of social insects including egg production nesting characteristics and food collection The book first underscores the evolution of social life and organization and control of social insect populations The text also ponders on the numbers and density of social insect populations as well as methods of estimation numbers in colonies and density and biomass Egg production stationary populations nest size productivity and survival are discussed The manuscript discusses reproduction and brood periodicity of social insect populations Discussions focus on reproduction by single and group of queens and reciprocity among bees wasps and ants The text also examines nest sites and shelters mating structures and food collection of social insects Discussions focus on food supply intergeneric competition predators and parasites and population regulation among bees wasps termites and ants The book is a dependable reference for readers interested in the study of social insect populations **Social Insect Populations** Michael Vaughan Brian, 1972 **Social Insect Populations** Universitet Leningrad, 1965 Social Insect Populations W.V. Brian, 1965 **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known experts provide a comprehensive view of current knowledge of social insect biology including much previously unpublished information Particular emphasis is given to the relationships between social insects and humans sections are devoted to economically important social insects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 **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 *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

Genetic Structure and Local Adaptation in Natural Insect Populations Susan Mopper, Sharon Y. Strauss, 2013-04-17 Providing an essential foundation for evolutionary theory this comprehensive volume examines patterns of genetic variation within natural insect populations and explores the underlying mechanisms that lead to the genetic divergence of coexisting organisms In particular the text investigates current research on finescale genetic structure in natural insect populations Internationally renowned scientists offer a wealth of current information not previously published Part I present case studies of adaptive genetic structure in natural insect populations including a critical discussion of the strenghts and weaknesses of the experimental methods employed Part II addresses the ecological mechanisms that produce adaptive genetic structure in natural insect populations Part III describes how behavioral and life history patterns influence genetic structure Finally Part IV combines theoretical and empirical approaches linking genetic structure at the population level with larger scale patterns of variation such as host race formation and speciation This broad ranging interdisciplinary source of information supplies a thorough examination of the mechanisms that promote and impede genetic structure in natural insect populations It is a book that will be of interest to undergraduate and graduate students and to researchers in the fields of ecology evolution insect and plant systems entomology and population genetics

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

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Michael Vaughan Brian, 1965 Insect Populations, 1939 *Social Insects and the Environment* C.A. Viraktamath, G.K. Veeresh, B. Mallik, 2023-10-09 This volume includes 370 papers presented by leading scientists at the 11th International Congress of IUSSI at Bangalore from August 5-11, 1990. The papers which have been classified into 30 sections relate to the symposia papers of the Congress. These cover various frontiers of research on social insects such as evolution of sociality, polygyny, social polymorphism, kin recognition, kin selection, foraging strategies, reproductive strategies, biogeography and phylogenetics of bees and ants, pollination ecology and management of pestiferous social insects. The most important feature about these papers in this publication is that the results are presented in a crisp, brief and precise manner. Because of the brevity, it has been possible to bring together in one publication almost all aspects of research on social insects from all parts of the world. The time between presentation of papers at a Congress and publication has been avoided by publishing this volume on the eve of the Congress and this enables scientists to refer to the results immediately.

Evolution of Social Insect Colonies Rossiter Henry Crozier, Pekka Pamilo, 1996 This book is about the genetics and behaviour of individuals within colonies of social insects: bees, wasps, ants and termites. Colonial living is characterized by division of labour and finely coordinated organization by reproductive function being limited to certain individuals by cooperative brood care and by the presence of non-reproductive workers. Within a colony, however, many events are the result of conflicts between individuals seeking to maximize their own interests. Ever since Darwin, this interplay of cooperation and conflict has raised many important questions in evolutionary biology, especially about how cooperative behaviour is maintained in the absence of direct reproduction by workers. How is the heritable component of this behaviour passed on? Crozier and Pamilo's contribution is to analyse the genetic basis of the patterns of reproduction and resource allocation found in social insect colonies. This is done more comprehensively and with greater depth and insight than in any previous study and is a significant step forward in the fields of population genetics and social evolution.

Population Biology of Tropical Insects Allen M. Young, 2012-12-06 In this book, I have tried to bring together the major developments in the study of insect populations in tropical environments. In some ways, this task has been a difficult one because conceptually it is virtually impossible to limit a discussion of insect ecology to the tropics since the same concepts, theories and hypotheses concerning the mechanisms by which habitats support insect populations often apply both to temperate and to tropical regions. Thus, one might argue effectively that a book such as Peter Price's *Insect Ecology* represents a more comprehensive treatment of insect ecology including the tropical aspects. Yet because there has been a tremendous amount of new study on insects in the tropics in recent years and because there has also been a strong historical interest in tropical insects, judging from early museum expeditions and medically and agriculturally oriented studies of insects in the New and Old World tropics, I believe there is a place for a book dealing almost exclusively with tropical insects. But logically so, such a book by necessity incorporates data and information from Temperate Zone studies if for no other reason than because insights into the properties of tropical

environments often emerge from comparisons of species communities or faunas between temperate and tropical regions. An understanding of insect populations in the tropics cannot be divorced from a consideration of Temperate Zone populations.

Social Insects Wolf Engels, 2012-12-06 *Evolution of Castes in Insects* | 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 unharmful 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.

Arthropod Interactions and Responses to Disturbance in a Changing World Shannon M. Murphy, Lora A. Richards, Gina M. Wimp, 2020-06-16 **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.

Tropical Ecosystems in the 21st Century, 2020-03-18 *Advances in Ecological Research* Volume 62, the latest release in this ongoing series, covers a long list of topics including: Monitoring tropical insects in the 21st Century; The distribution and structure of long-term and large-scale fire manipulation experiments; The Agua Salud Project: Basic and applied research informing management of tropical landscapes for the 21st century; Conservation strategies and principles for tropical forests; Assessing forest quality using satellite remote sensing data; A test case using the Sabah Biodiversity Experiment; eDNA approaches to understand the current state and future of biodiversity of the Amazonian biome; pitfalls, improvements, and challenges; and much more. Provides information that relates to a thorough understanding of the field of ecology. Deals with topical and important reviews on the physiologies, populations, and communities of plants and animals.

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