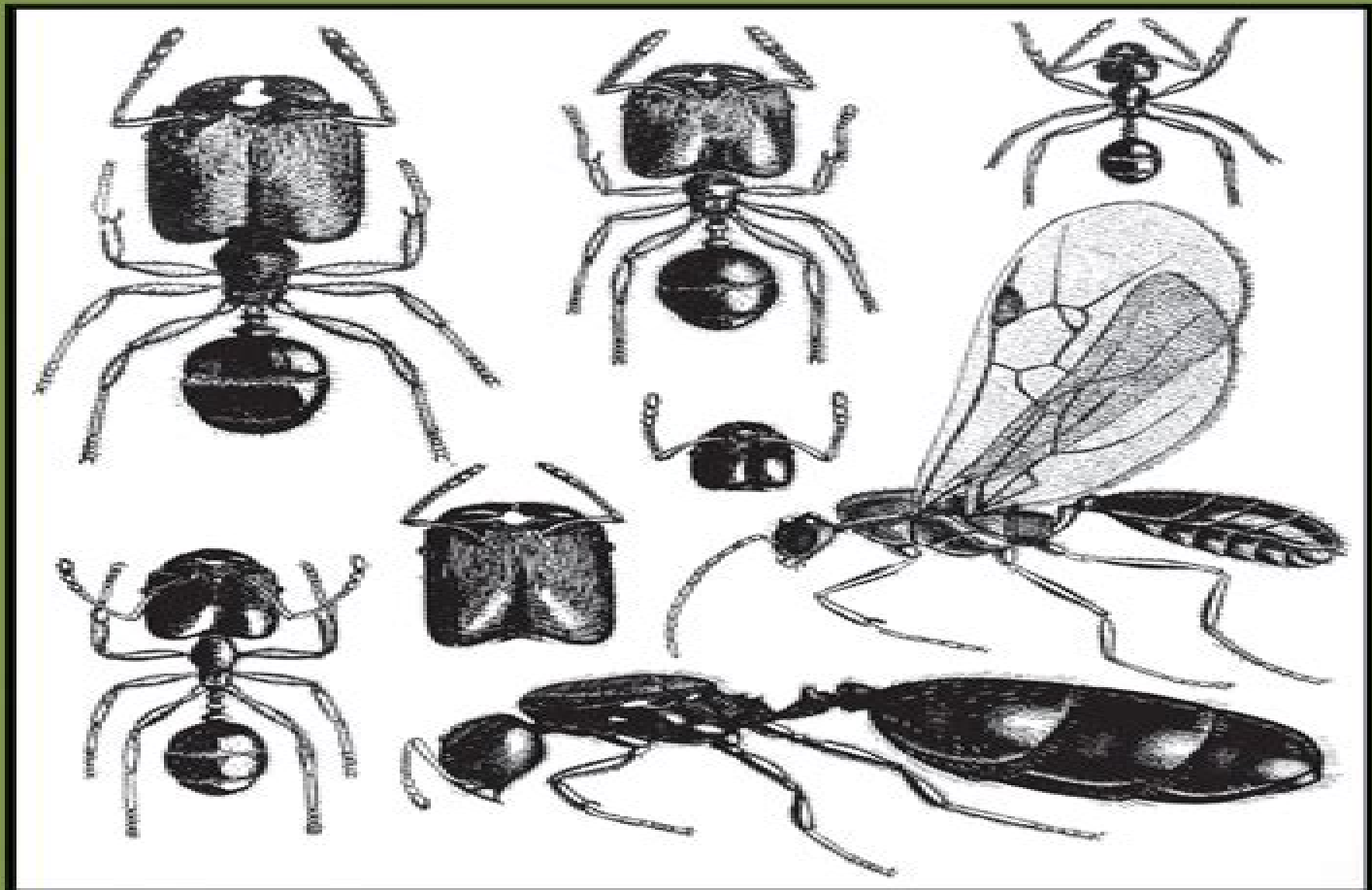


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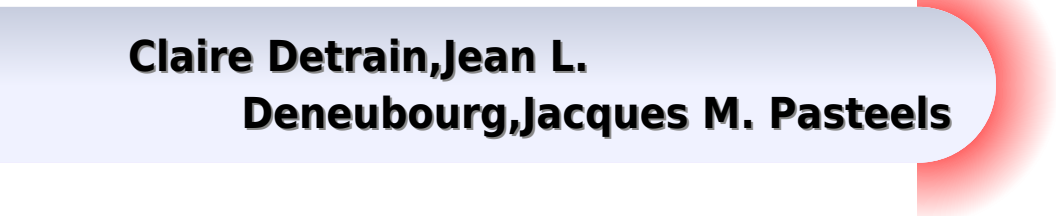
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Social Evolution In Ants

**Claire Detrain, Jean L.
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Social Evolution In Ants:

Social Evolution in Ants Andrew F.G. Bourke, Nigel R. Franks, 2019-12-31 Biologists since Darwin have been intrigued and confounded by the complex issues involved in the evolution and ecology of the social behavior of insects. The self sacrifice of sterile workers in ant colonies has been particularly difficult for evolutionary biologists to explain. In this important new book Andrew Bourke and Nigel Franks not only present a detailed overview of the current state of scientific knowledge about social evolution in ants but also show how studies on ants have contributed to an understanding of many fundamental topics in behavioral ecology and evolutionary biology. One of the substantial contributions of *Social Evolution in Ants* is its clear explanation of kin selection theory and sex ratio theory and their applications to social evolution in insects. Working to dispel lingering skepticism about the validity of kin selection and more broadly of selfish gene theory, Bourke and Franks show how these ideas underpin the evolution of both cooperation and conflict within ant societies. In addition, using simple algebra, they provide detailed explanations of key mathematical models. Finally, the authors discuss two relatively little known topics in ant social biology: life history strategy and mating systems. This comprehensive up to date and well referenced work will appeal to all researchers in social insect biology and to scholars and students in the fields of entomology, behavioral ecology, and evolution.

The Evolution of Social Behavior in Insects and Arachnids Jae C. Choe, Bernard J. Crespi, 1997 Social insects and arachnids exhibit complex forms of behavior that involve cooperation in building a nest, defending against attackers, or rearing offspring. This book is a comprehensive up to date guide to sociality and its evolution in a wide range of taxa.

Principles of Social Evolution Andrew F.G. Bourke, 2011-01-06 Investigates and sets out the common principles of social evolution operating across all taxa and levels of biological organisation.

The Genetics Of Social Evolution Michael D. Breed, Robert E. Page, 2019-09-06 The contributor's primary goal in organizing this book was to initiate a synthesis of thought on how genetics structures the behavior of individual animals that live within complex social systems. To do this, they have brought together leading theorists and empiricists who apply genetics to the study of eusocial insect evolution.

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.

Neuroethology of the Colonial Mind: Ecological and Evolutionary Context of Social Brains J. Frances Kamhi, Sara Arganda Carreras, Mathieu Lihoreau, 2023-10-02 Animal groups often display striking collective

organization which relies on social interactions. These interactions require neural substrates supporting the exchange of information among individuals and the processing of this information. The social brain hypothesis suggested from neuroanatomical findings in primates posits that increasing levels of sociality involve a higher investment in neural tissue to cope with social information. However, distributed cognition and swarm intelligence might alleviate the cognitive load on the individuals and potentially reduce their neural requirements. Research on social insects, which are an exemplar of collective action, has so far produced mixed results. Individual cognition and collective action have received a lot of attention and much progress has been done in each of those fields; however, much less is understood about how the two interact. Our goal is to aggregate theoretical and experimental research exploring the links between the complexity of individual and collective behaviors. Experimental research testing the social brain hypothesis showed little support for a general explanation across the animal kingdom. The relationship between the cognitive abilities of animals and their social interactions are much more complex than previously thought and tackling this problem requires a better knowledge of the fundamental mechanisms underpinning socio-cognitive tasks. What is the information used by the animals during social interactions? How much information is necessary? How many neurons and which neural circuits are required for processing this information? What neural connections are important? Do these social interactions involve memory formation? How do the cognitive requirements and neural circuits vary between group members? Answering these questions will bring considerable insights into the cognitive complexity involved for social and collective behaviors. It will also advance our understanding of inter-individual cognitive variability and division of labor in most socially advanced species. This Research Topic will be a unique forum for researchers from different fields: neurogenetics, neuroethology, evolutionary ecology, cognitive ecology, collective animal behavior, computational modeling, working on different species to present up-to-date advances on the physiological correlates of social behavior and delineate future directions for the field of social neuroethology. We welcome contributions on any aspect of the cognitive requirements of social and collective behaviors from molecular, cellular, and circuit level approaches to how individuals contribute to group action at the behavioral level. Specific areas of interest include but are not limited to: studies on the neural underpinnings of division of labor, neuromodulation or neurogenetics of social behaviors, the neural circuits and neuroanatomical basis of group action, and how social signals affect learning and behavior. We encourage submissions that present original research and review evidence or compare data from multiple species. We hope to include work from different disciplines and on a wide range of species, including model, non-model, and wild animals, with the aim of gaining insight into the patterns of neural investment in individual cognition.

Encyclopedia of Animal Behavior

,2019-01-21 Encyclopedia of Animal Behavior Second Edition Four Volume Set the latest update since the 2010 release builds upon the solid foundation established in the first edition. Updated sections include Host-parasite interactions, Vertebrate social behavior, and the introduction of overview essays that boost the book's comprehensive detail. The structure for the

work is modified to accommodate a better grouping of subjects Some chapters have been reshuffled with section headings combined or modified Represents a one stop resource for scientifically reliable information on animal behavior Provides comparative approaches including the perspective of evolutionary biologists physiologists endocrinologists neuroscientists and psychologists Includes multimedia features in the online version that offer accessible tools to readers looking to deepen their understanding

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 1970 s 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 1980 s 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

Wood Ant Ecology and Conservation Jenni A. Stockan, Elva J. H. Robinson, 2016-07-07 Wood ants play an ecologically dominant and conspicuous role in temperate boreal forests making a keystone contribution to woodland ecosystem functions and processes Wood ant taxonomy and global distributions set the scene for this text s exploration of wood ants as social insects examining their flexible social structures genetics population ecology and behaviour from nest mate recognition to task allocation Wood ants interactions with their environment and with other organisms are essential to their success competition predation and mutualism are described and analysed Bringing together the expertise of ecological researchers and conservation practitioners this book provides practical and theoretical advice about sampling and monitoring these insects and outlines the requirements for effective conservation This is an indispensable resource for wood ant researchers entomologists conservationists and ecological consultants as well as anyone interested in social insects keystone species and the management and conservation of forest ecosystems

The Behavioural Ecology of Parasites E. E. Lewis, J. F. Campbell, M. V. K. Sukhdeo, 2002-07-17 Parasites have evolved numerous complex and fascinating ways of interacting with their hosts The subject attracts the interest of numerous biologists from the perspective of ecology and behavioural biology as well as from those concerned with more applied aspects of parasitology However until

now there has been no recent book to synthesize this field This book written by leading authorities from the USA Europe Australia and New Zealand provides the most comprehensive coverage of this important topic on the market

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