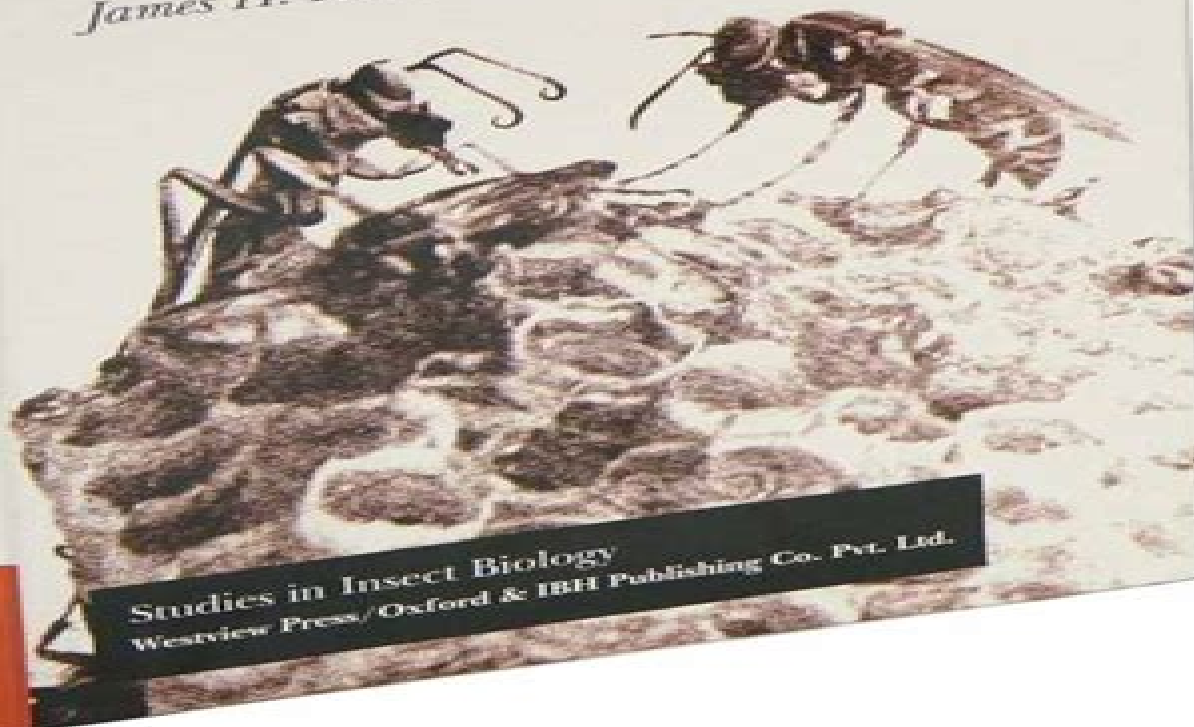


Nourishment & Evolution in Insect Societies

*edited by
James H. Hunt & Christine A. Nalepa*



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Jürgen Gadau, Jennifer Fewell



Nourishment And Evolution In Insect Societies:

Nourishment And Evolution In Insect Societies James H Hunt, Christine A. Nalepa, 1994-03-14 Examines the structure and function of insect societies from a nutritional perspective in order to foster a fuller understanding of how their social systems evolved

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 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

Advances in Insect Physiology, 2015-08-21 Advances in Insect Physiology provides readers with the latest interdisciplinary reviews on the topic It is an essential reference source for invertebrate physiologists neurobiologists entomologists zoologists and insect chemists Contains important comprehensive and in depth reviews on insect physiology Provides an essential reference source for invertebrate physiologists and neurobiologists entomologists zoologists and insect biochemists First published in 1963 this serial is ranked second in the highly competitive ISI category of entomology

The Evolution of Social Wasps James H. Hunt, 2007-03-27 Social behavior occurs in some of the smallest animals as well as some the largest and the transition from solitary life to sociality is an unsolved evolutionary mystery In *The Evolution of Social Wasps* James H Hunt examines social behavior in a single lineage of insects wasps of the family Vespidae He presents empirical knowledge of social wasps from two approaches one that focuses on phylogeny and life history and one that focuses on individual ontogeny colony development and population dynamics He also provides an extensive summary of the existing literature while demonstrating how it can be clouded by theory Hunt's fresh approach to the conflicting literature on sociality highlights how oft repeated models can become fixed in the thinking of the scientific community Instead Hunt presents a mechanistic scenario for the evolution of sociality in wasps that changes our perspective on kin selection the paradigm that has dominated thinking about social evolution since the 1970s This innovative new model integrates life history nutrition fitness and ecology in which social insect biologists will find a rich storehouse of ideas and information and behavioral ecologists will find a bracing challenge to long accepted models Engagingly written bold and provocative *The Evolution of Social Wasps* marks a milestone in our understanding of one of life's major evolutionary

transitions the origin of social behavior **Forests and Insects** Allan D. Watt, Nigel E. Stork, Mark D. Hunter, 1997-09-30 This book covers the full breadth of forest entomology It combines the work of forest entomologists working on the impact and management of forest pests with those involved in diversity assessment and conservation of insects in forests **Forests and Insects** demonstrates that both these disciplines demand an understanding of population and community biology The book covers such topics as colonization of trees by insects population dynamics of forest insects insect natural enemies the effects of climate change and pollution on forest pests spatial variation in the abundance of insects the mineralization of carbon by termites the impact of herbivorous insects and the conservation of forest insect diversity including the effects of forest fragmentation and deforestation This Royal Entomological Society Symposium volume will be of great interest to all agricultural and forest entomologists population and community biologists pest management specialists and anyone concerned with the conservation of forest biodiversity **Parental Care: Evolution, Mechanisms, And Adaptive**

Significance ,1996-11-18 *Advances in the Study of Behavior* presents its first thematic volume focusing on the physiological and behavioral mechanisms underlying parental care The book discusses parental care both within and across taxa with coverage of invertebrates and early vertebrates fishes amphibia reptiles mammals birds and nonhuman primates A running theme throughout the chapters shows that parental care is anchored to the ecology reproductive physiology and embryonic development of a species Coverage also includes mechanisms of parental care including analysis of the stimuli that parents respond to and how parental care is initiated maintained and terminated Individual differences within species are also explored examining stable differences in maternal style how they arise and the consequences for both mother and infant

Insect Evolutionary Ecology Royal Entomological Society of London. Symposium, 2005 Insects provide excellent model systems for understanding evolutionary ecology They are abundant small and relatively easy to rear and these traits facilitate both field and laboratory experiments This book has been developed from the Royal Entomological Society's 22nd international symposium held in Reading in 2003 Topics include speciation and adaptation life history phenotype plasticity and genetics sexual selection and reproductive biology insect plant interactions insect natural enemy interactions and social insects

Food Exploitation By Social Insects Stefan Jarau, Michael Hrnčíř, 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 *Symbiotic Soil Microorganisms* Neeraj Shrivastava, Shubhangi Mahajan, Ajit Varma, 2020-10-30 This book explores microbial symbiosis with a particular focus on soil microorganisms highlighting their application in enhancing plant growth and yield It addresses various types of bacterial and fungal microbes associated with symbiotic phenomena including rhizobium symbiosis arbuscular mycorrhizal symbiosis ectomycorrhizal symbiosis algal lichen symbiosis and Archeal symbiosis Presenting strategies for employing a diverse range

of bacterial and fungal symbioses in nutrient fortification adaptation of plants in contaminated soils and mitigating pathogenesis it investigates ways of integrating diverse approaches to increase crop production under the current conventional agroecosystem Providing insights into microbial symbioses and the challenges of adopting a plant microbe synergistic approach towards plant health this book is a valuable resource for researchers graduate students and anyone in industry working on bio fertilizers and their agricultural applications

Gastrointestinal Microbiology Roderick Mackie, Bryan White, 2012-12-06 Extremely diverse and complicated bacterial and protozoan populations inhabit the rumen and intestinal tract of animals and there is a delicate balance among the individual populations within this complex microbial community This authoritative edited volume the first in a two volume set reviews the gut environment and the fermentations taking place in animal digestive tracts It is an essential source of reference for microbial ecologists and physiologists medical microbiologists and gastroenterologists biochemists nutritionists veterinarians and animal scientists and wildlife ecologists

Gastrointestinal Microbiology Rod I. Mackie, Bryan White, Richard E. Isaacson, 1997-01-31 Extremely diverse and complicated bacterial and protozoan populations inhabit the rumen and intestinal tract of animals and there is a delicate balance among the individual populations within this complex microbial community This authoritative edited volume the first in a two volume set reviews the gut environment and the fermentations taking place in animal digestive tracts It is an essential source of reference for microbial ecologists and physiologists medical microbiologists and gastroenterologists biochemists nutritionists veterinarians and animal scientists and wildlife ecologists

Animal Traditions Eytan Avital, Eva Jablonka, 2000-11-23 Animal Traditions maintains that the assumption that the selection of genes supplies both a sufficient explanation of the evolution and a true description of its course is despite its almost universal acclaim wrong Eytan Avital and Eva Jablonka contend that evolutionary explanations must take into account the well established fact that in mammals and birds the transfer of learnt information is both ubiquitous and indispensable The introduction of the behavioural inheritance system into the Darwinian explanatory scheme enables the authors to offer new interpretations for common behaviours such as maternal behaviours behavioural conflicts within families adoption and helping This approach offers a richer view of heredity and evolution integrates developmental and evolutionary processes suggests new lines for research and provides a constructive alternative to both the selfish gene and meme views of the world It will make stimulating reading for all those interested in evolutionary biology sociobiology behavioural ecology and psychology

Aging of Organisms H.D.

Osiewacz, 2013-11-11 Biological aging as the time depending general decline of biological systems associated with a progressively increasing mortality risk is a general phenomenon of great significance The underlying processes are very complex and depending on genetic and environment factors These factors encode or affect a network of interconnected cellular pathways In no system this network has been deciphered in greater detail However the strategy of studying various biological systems has led to the identification of pathways and specific modules and makes it obvious that aging is the result

of different overlapping mechanisms and pathways Some of these appear to be conserved public among species others are specific or private and only of significance in one or a few organisms This volume in the series on Biology of aging and its modulation specifically focuses on organismic aging The book covers research on organisms from lower to higher complexity representing examples from very diverse taxa like photosynthetic plants fungi sponges nematodes flies birds and mammals Such a broad treatise of this complex topic provides a comprehensive flavor about the current issues dealt with in this rapidly growing scientific discipline *Microbial Drivers of Sociality - from Multicellularity to Animal Societies* Dino

McMahon, Peter H. W. Biedermann, Marko Rohlf, Joël Meunier, 2021-10-13 *Soil Ecology* P. Lavelle, A. Spain, 2007-05-08 A number of excellent textbooks on general ecology are currently available but to date none have been dedicated to the study of soil ecology This is important because the soil as the epidermis of our planet is the major component of the terrestrial biosphere In the present age it is difficult to understand how one could be interested in general ecology without having some knowledge of the soil and further to study the soil without taking into account its biological components and ecological setting It is this deficiency that the two authors Patrick Lavelle and Alister Spain have wished to address in writing their text A reading of this work entitled *Soil Ecology* shows it to be very complete and extremely innovative in its conceptual plan In addition it follows straightforwardly through a development which unfolds over four substantial chapters Firstly the authors consider the soil as a porous and finely divided medium of biogeochemical origin whose physical structure and organisation foster the development of a multitude of specifically adapted organisms microbial communities roots of higher plants macro invertebrates *Termites: Evolution, Sociality, Symbioses, Ecology* Y. Abe, David Edward Bignell, T. Higashi, 2014-11-14 The book is a new compendium in which leading termite scientists review the advances of the last 30 years in our understanding of phylogeny fossil records relationships with cockroaches social evolution nesting behaviour mutualisms with archaea protists bacteria and fungi nutrition energy metabolism population and community ecology soil conditioning greenhouse gas production and pest status ***Biology of Termites: a Modern Synthesis*** David Edward Bignell, Yves Roisin, Nathan Lo, 2010-10-20 *Biology of Termites a Modern Synthesis* brings together the major advances in termite biology phylogenetics social evolution and biogeography In this new volume David Bignell Yves Roisin and Nathan Lo have brought together leading experts on termite taxonomy behaviour genetics caste differentiation physiology microbiology mound architecture biogeography and control Very strong evolutionary and developmental themes run through the individual chapters fed by new data streams from molecular sequencing and for the first time it is possible to compare the social organisation of termites with that of the social Hymenoptera focusing on caste determination population genetics cooperative behaviour nest hygiene and symbioses with microorganisms New chapters have been added on termite pheromones termites as pests of agriculture and on destructive invasive species *Evolutionary Ecology of Social and Sexual Systems* J. Emmett Duffy, Martin Thiel, 2007-09-06 Understanding of animal social and sexual evolution has seen a renaissance in recent years

with discoveries of frequent infidelity in apparently monogamous species the importance of sperm competition active female mate choice and eusocial behavior in animals outside the traditional social insect groups Each of these findings has raised new questions and suggested new answers about the evolution of behavioral interactions among animals This volume synthesizes recent research on the sexual and social biology of the Crustacea one of the dominant invertebrate groups on earth Its staggering diversity includes ecologically important inhabitants of nearly every environment from deep sea trenches through headwater streams to desert soils The wide range of crustacean phenotypes and environments is accompanied by a comparable diversity of behavioral and social systems including the elaborate courtship and wildly exaggerated morphologies of fiddler crabs the mysterious queuing behavior of migrating spiny lobsters and even eusociality in coral reef shrimps This diversity makes crustaceans particularly valuable for exploring the comparative evolution of sexual and social systems Despite exciting recent advances however general recognition of the value of Crustacea as models has lagged behind that of the better studied insects and vertebrates This book synthesizes the state of the field in crustacean behavior and sociobiology and places it in a conceptually based comparative framework that will be valuable to active researchers and students in animal behavior ecology and evolutionary biology It brings together a group of internationally recognized and rising experts in fields related to crustacean behavioral ecology ranging from physiology and functional morphology through mating and social behavior to ecology and phylogeny Each chapter makes connections to other non crustacean taxa and the volume closes with a summary section that synthesizes the contributions discusses anthropogenic impacts highlights unanswered questions and provides a vision for profitable future research *Hormones, Brain and Behavior Online* ,2002-06-18

Hormones Brain and Behavior Second Edition is a comprehensive work discussing the effect of hormones on the brain and subsequently behavior This major reference work has 109 chapters covering a broad range of topics with an extensive discussion of the effects of hormones on insects fish amphibians birds rodents and humans To truly understand all aspects of our behavior we must take every influence including the hormonal influences into consideration Donald Pfaff and a number of well qualified editors examine and discuss how we are influenced by hormonal factors offering insight and information on the lives of a variety of species *Hormones Brain and Behavior* offers the reader comprehensive coverage of growing field of research with a state of the art overview of hormonally mediated behaviors This reference provides unique treatment of all major vertebrate and invertebrate model systems with excellent opportunities for relating behavior to molecular genetics The topics cover an unusual breadth from molecules to ecophysiology ranging from basic science to clinical research making this reference of interest to a broad range of scientists in a variety of fields Available online exclusively via ScienceDirect A limited edition print version is also available Comprehensive coverage of a growing field of research Unique treatment of all major vertebrate and invertebrate model systems with excellent opportunities for relating behavior to molecular genetics Covers an unusual breadth ranging from molecules to ecophysiology and from basic science to clinical research

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