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NATURAL HISTORY AND EVOLUTION OF PAPER-WASPS

EDITED BY
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Natural History And Evolution Of Paper Wasps Oxford Science Publications

Greg J. Hunt, Juergen R. Gadau



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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 lifes major evolutionary transitions the origin of social behavior

Insect Biodiversity Robert G. Foottit, Peter H. Adler, 2017-07-24 Volume One of the thoroughly revised and updated guide to the study of biodiversity in insects The second edition of *Insect Biodiversity Science and Society* brings together in one comprehensive text contributions from leading scientific experts to assess the influence insects have on humankind and the earth s fragile ecosystems Revised and updated this new edition includes information on the number of substantial changes to entomology and the study of biodiversity It includes current research on insect groups classification regional diversity and a wide range of concepts and developing methodologies The authors examine why insect biodiversity matters and how the rapid evolution of insects is affecting us all This book explores the wide variety of insect species and their evolutionary relationships Case studies offer assessments on how insect biodiversity can help meet the needs of a rapidly expanding human population and also examine the consequences that an increased loss of insect species will have on the world This important text Explores the rapidly increasing influence on systematics of genomics and next generation sequencing Includes developments in the use of DNA barcoding in insect systematics and in the broader study of insect biodiversity including the detection of cryptic species Discusses the advances in information science that influence the increased capability to gather manipulate and analyze biodiversity information Comprises scholarly contributions from leading scientists in the field *Insect Biodiversity Science and Society* highlights the rapid growth of insect biodiversity research and includes an expanded treatment of the topic that addresses the major insect groups the zoogeographic regions of biodiversity and the scope of systematics approaches for handling biodiversity data

[Encyclopedia of Animal Behavior](#), 2009-04-01 The *Encyclopedia of Animal Behavior* Three Volume Set has engaged with great success the efforts of many of

the best behavioral biologists of the 21st century Section editors drawn from the most accomplished behavioral scientists of their generation have enrolled an international cast of highly respected thinkers and writers all of whom have taken great care and joy in illuminating every imaginable corner of animal behavior This comprehensive work covers not only the usual topics such as communication learning sexual selection navigation and the history of the field but also emerging topics in cognition animal welfare conservation and applications of animal behavior The large section on animal cognition brings together many of the world s experts on the subject to provide a comprehensive overview of this rapidly developing area Chapters relating to animal welfare give a full view of behavioral interactions of humans with companion animals farm animals and animals in the wild The key role of animal behavior in conservation biology receives broad attention including chapters on topics such as the effects of noise pollution captive breeding and how the behavioral effects of parasites interacts with conservation issues Animal behavior in environmental biology is highlighted in chapters on the effects of endocrine disruptors on behavior and a large number of chapters on key species such as wolves chimpanzees hyenas and sharks Clear accessible writing complements a wealth of information for undergraduate college students about the essential concepts of animal behavior and the application of those concepts across the field In depth coverage of concepts methods and exemplar organisms serves the needs of graduate students and professionals in the field From the use of behavior in assessing the welfare of pigs to the social behavior of insects from animal empathy to bat brains this authoritative reference with its in depth introductory articles rich array of illustrations interactive cross referenced links and numerous suggested readings can guide the student or the professional to an expanded appreciation of the far flung world of animal behavior An invaluable tool for teaching and a source of enrichment and detail for any topic covered in an animal behavior course the Encyclopedia of Animal Behavior is the definitive reference work in its field and will be for years to come Comprehensive work which covers the usual topics along with emerging areas of animal behavior This encyclopedia contains clear accessible writing and is well illustrated including an online video complimenting a wealth of information As an online reference this work will be subject to period updating This ensures that the work always remains current Contains in depth introductions to the material that make each well illustrated section come alive with the best the new content the discipline has to offer Glossary includes a compendium of behavioral terms that form a succinct mosaic of virtually every concept and phenomenon related to animal behavior Section editors drawn from around the world represent the best and the brightest among today s behavioral biologists and have recruited a broad range of internationally recognized experts Editors in Chief are experienced scientists and writers who between them have authored or edited eight books and teach courses in animal behavior at their respective universities

Neotropical Social Wasps Fabio Prezoto, Fabio Santos Nascimento, Bruno Corrêa Barbosa, Alexandre Somavilla, 2020-11-07 This book provides updated information on this intriguing and exciting group of insects Neotropical Social Wasps These insects have a particular biology and their colonies are formed by a few cooperative females living in

either small or massive structured nests where stinging individuals organize their activities and defend their offspring Topics include evolutionary aspects biogeography post embryonic development community behavior and ecology economic importance and research methods Developmental Plasticity and Evolution Mary Jane West-Eberhard, 2003-04-10 West Eberhard is widely recognized as one of the most incisive thinkers in evolutionary biology This book assesses all the evidence for our current understanding of the role of changes in body plan and development for the process of speciation The process of evolution is systematically reassessed to integrate the insights coming from developmental genetics Every serious student of evolution and a substantial share of developmental biologists and geneticists will need to take note of this contribution The timing is clearly ripe for the synthesis that this work will help bring about **Host Manipulation by Parasites** Richard Dawkins, 2012-06-07 Parasites that manipulate the behaviour of their hosts represent striking examples of adaptation by natural selection This field of study is now moving beyond its descriptive phase and into more exciting areas where the processes and patterns of such dramatic adaptations can be better understood This innovative text provides an up to date authoritative and challenging review of host manipulation by parasites that assesses the current state of developments in the field and lays out a framework for future research It also promotes a greater integration of behavioral ecology with studies of host manipulation behavioral ecology has tended to concentrate mainly on behaviour expressed by free living organisms and is far less focused on the role of parasites in shaping behaviour To help achieve this the editors adopt a novel approach of having a prominent expert on behavioral ecology but who does not work directly on parasites to provide an afterword to each chapter **TEXTBOOK OF ANIMAL BEHAVIOUR** FATIK BARAN MANDAL, 2012-01-17 This well accepted book now stands in its second edition is a time honoured revision and extension of the previous edition Beginning with an introduction to the study of animal behaviour the book explains the various aspects of behavioural biology incorporating a wealth of information from molecular biology neurobiology and socio biology with a new approach It describes different kinds of innate and learned behaviours animal communications defensive behaviours such as camouflage and mimicry with suitable illustrations The book incorporates the introductory concepts of biomimicry in an attractive manner Further it discusses biorhythms migration in fish and birds in addition to evolution and physiological basis of migration The text also presents the important aspects of socio biology and social behaviours such as feeding adaptation prey defence territoriality aggression altruism sexuality and parental care Finally it provides discussions on behavioural ecology in the context of conservation biology and human behaviour The book presents the basic principles of animal behaviour with the aid of carefully selected examples from both the recent and classic literature along with an emphasis on readability In the present edition topics like eusociality and behavioural theories have been incorporated This edition also includes as many as 11 published articles by the author on different topics related to the subject matter in box format to further strengthen the text The book is primarily intended for the students of B Sc M Sc Zoology Life Science for their courses It would be useful for the researchers in the

field of animal behaviour and conservation biologists It would also attract readership studying Sociology and Anthropology
KEY FEATURES Presents a well balanced view of ethology Discusses the current development in the field Includes a glossary of important terms Offers end of chapter questions to check the students understanding of the concepts

Self-Organization in Biological Systems Scott Camazine, Jean-Louis Deneubourg, Nigel R. Franks, James Sneyd, Guy Theraulaz, Eric Bonabeau, 2020-05-05 The synchronized flashing of fireflies at night The spiraling patterns of an aggregating slime mold The anastomosing network of army ant trails The coordinated movements of a school of fish Researchers are finding in such patterns phenomena that have fascinated naturalists for centuries a fertile new approach to understanding biological systems the study of self organization This book a primer on self organization in biological systems for students and other enthusiasts introduces readers to the basic concepts and tools for studying self organization and then examines numerous examples of self organization in the natural world Self organization refers to diverse pattern formation processes in the physical and biological world from sand grains assembling into rippled dunes to cells combining to create highly structured tissues to individual insects working to create sophisticated societies What these diverse systems hold in common is the proximate means by which they acquire order and structure In self organizing systems pattern at the global level emerges solely from interactions among lower level components Remarkably even very complex structures result from the iteration of surprisingly simple behaviors performed by individuals relying on only local information This striking conclusion suggests important lines of inquiry To what degree is environmental rather than individual complexity responsible for group complexity To what extent have widely differing organisms adopted similar convergent strategies of pattern formation How specifically has natural selection determined the rules governing interactions within biological systems Broad in scope thorough yet accessible this book is a self contained introduction to self organization and complexity in biology a field of study at the forefront of life sciences research

Domains and Major Transitions of Social Evolution Jacobus J. Boomsma, 2023-05-24 Evolutionary change is usually incremental and continuous but some increases in organizational complexity have been radical and divisive Evolutionary biologists who refer to such events as major transitions have not always appreciated that these advances were novel forms of pairwise commitment that subjugated previously independent agents Inclusive fitness theory convincingly explains cooperation and conflict in societies of animals and free living cells but to deserve its eminent status it should also capture how major transitions originated from prokaryote cells to eukaryote cells via differentiated multicellularity to colonies with specialized queen and worker castes As yet no attempt has been made to apply inclusive fitness principles to the origins of these events Domains and Major Transitions of Social Evolution develops the idea that major evolutionary transitions involved new levels of informational closure that moved beyond looser partnerships Early neo Darwinians understood this principle but later social gradient thinking obscured the discontinuity of life s fundamental organizational transitions The author argues that the major transitions required maximal kinship in simple

ancestors not conflict reduction in already elaborate societies Reviewing more than a century of literature he makes testable predictions proposing that open societies and closed organisms require very different inclusive fitness explanations It appears that only human ancestors lived in societies that were already complex before our major cultural transition occurred We should therefore not impose the trajectory of our own social history on the rest of nature This thought provoking text is suitable for graduate level students taking courses in evolutionary biology behavioural ecology organismal developmental biology and evolutionary genetics as well as professional researchers in these fields It will also appeal to a broader interdisciplinary audience including the social sciences and humanities *Insect Behavior* Alex Córdoba-Aguilar, Daniel González-Tokman, Isaac González-Santoyo, 2018-07-19 Insects display a staggering diversity of behaviors Studying these systems provides insights into a wide range of ecological evolutionary and behavioral questions including the genetics of behavior phenotypic plasticity chemical communication and the evolution of life history traits This accessible text offers a new approach that provides the reader with the necessary theoretical and conceptual foundations at different hierarchical levels to understand insect behavior The book is divided into three main sections mechanisms ecological and evolutionary consequences and applied issues The final section places the preceding chapters within a framework of current threats to human survival climate change disease and food security before providing suggestions and insights as to how we can utilize an understanding of insect behavior to control and or ameliorate them Each chapter provides a concise authoritative review of the conceptual theoretical and methodological foundations of each topic **Annales zoologici fennici** ,2001

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

Genes and Behaviour David J. Hosken, John Hunt, Nina Wedell, 2019-02-06 Provides a broad snapshot of recent findings

showing how the environment and genes influence behavior The great debate of nature versus nurture rages on but our understanding of the genetic basis of many behaviors has expanded over the last decade and there is now very good evidence showing that seemingly complex behaviours can have relatively simple genetic underpinnings but also that most behaviours have very complicated genetic and environmental architecture Studies have also clearly shown that behaviors and other traits are influenced not just by genes and the environment but also by the statistical interaction between the two This book aims to end the nature versus nurture argument by showing that behaviors are nature and nurture and the interaction between the two and by illustrating how single genes can explain some of the variation in behaviors even when they are seemingly complex Genes and Behaviour Beyond Nature Nurture puts to rest the nature versus nurture dichotomy providing an up to date synopsis of where we are how far we ve come and where we are headed It considers the effects of a dual inheritance of genes and culture and genes and social environment and highlights how indirect genetic effects can affect the evolution of behavior It also examines the effect of non self genes on the behavior of hosts shines a light on the nature and nurturing of animal minds and invites us to embrace all the complexity nature and nurture generates and more Explores exciting new findings about behavior and where we go from here Features contributions by top scholars of the subject Seeks to end the nature versus nurture debate forever Genes and Behaviour Beyond Nature Nurture is a unique and eye opening read that will appeal to Ph D Students post doctoral fellows and researchers in evolution and behavior Additionally the book will also be of interest to geneticists sociologists and philosophers

Bird Nests and Construction Behaviour Mike

Hansell,2000-08-31 Bird Nests and Construction Behaviour provides a broad view of our understanding of the biology of the nests bowers and tools made by birds It illustrates how among vertebrates the building abilities of birds are more impressive and consistent than for any other builders other than ourselves yet birds seem to require no special equipment and use quite uncomplicated behaviour In doing so the book raises general issues in the field of behavioural ecology including the costs of reproduction sexual selection and the organisation and complexity of behaviour Written for students and researchers of animal behaviour behavioural ecology and ornithology it will nevertheless make fascinating reading for architects and engineers interested in understanding how structures are created by animals Pheromones and Animal Behaviour

Tristram D. Wyatt,2003-02-27 We are entering one of the most exciting periods in the study of chemical communication since the first pheromones were identified some 40 years ago This rapid progress is reflected in this book the first to cover the whole animal kingdom at this level for 25 years The importance of chemical communication is illustrated with examples from a diverse range of animals including humans marine copepods Drosophila Caenorhabditis elegans moths snakes goldfish elephants and mice It is designed to be advanced but at the same time accessible to readers whatever their scientific background For students of ecology evolution and behaviour this book gives an introduction to the rapid progress in our understanding of olfaction at the molecular and neurological level In addition it offers chemists molecular and

neurobiologists an insight into the ecological evolutionary and behavioural context of olfactory communication Olfaction in Animal Behaviour and Welfare Birte L Nielsen, 2017-06-29 Evidence based yet entirely practical this important new text builds upon the basics of neuroscience to describe the links between olfaction and animal behaviour and the effects of odours in animal welfare Animals use smells in a multitude of ways to orientate themselves to create social bonds to recognise food to initiate reproduction and to avoid predators and imminent threats such as fire Starting from the scientific basis of olfaction and odour perception the book covers pheromones and behavioural tests before describing the role of olfaction in feeding behaviour reproduction disease detection and animal housing This is a captivating introduction to the world of smells suitable for advanced students researchers and teachers of applied ethology animal welfare and veterinary science

Social evolution and the what, when, why and how of the major evolutionary transitions in the history of life

Peter Nonacs, Heikki Helanterä, Karen Marie Kapheim, 2023-01-27 **Tropical Zoology**, 2009 **The Spirit of the Hive**

Robert E. Page Jr., 2013-06-01 How can 40 000 bees working in the dark by instinct alone construct a honey comb Synthesizing decades of experiments The Spirit of the Hive presents the genetic and physiological mechanisms underlying the division of labor in honey bee colonies and explains how it is an inevitable product of group living evolving over millions of years

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

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