

Termites: Evolution, Sociality, Symbioses, Ecology

Edited by
Takuya Abe, David Edward Bignell and Masahiko Higashi



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Termites Evolution Sociality Symbioses Ecology

Clifford Lane



Termites Evolution Sociality Symbioses Ecology:

Termites Takuya Abe, David Edward Bignell, Masahiko Higashi, 2000 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 **Termites**, 2002 **Termites**, 2002 **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 **Insect Symbiosis, Volume 3** Kostas Bourtzis, Thomas A. Miller, 2008-10-28 The associations between insects and microorganisms while pervasive and of paramount ecological importance have been relatively poorly understood The third book in this set Insect Symbiosis Volume 3 complements the previous volumes in exploring this somewhat uncharted territory Like its predecessors Volume 3 illustrates how symbiosis research **Termites and Sustainable Management** Md. Aslam Khan, Wasim Ahmad, 2017-12-01 This termite Volume 2 comprises 13 chapters in an attempt to bring all available information on sustainable and eco friendly termite management The previous Volume considered the biology social behaviour and economic importance of these insects Chapters in this book dealing with damage and specific management of fungus growing termites provide a review on most recent methodologies used for management Termite damage crops from sowing till harvest As it is difficult to detect damages in field usually it is too late when the symptoms are noticed A separate chapter on issues related to Indian agriculture and the contemporary practices being followed by majority of the Indian farmers is quite informative Similarly a case study for termites infesting Malaysian forests constitutes an important contribution Various issues related to integrated and eco friendly termite management in tropical conditions have been addressed comprehensively Potential role of microbes has also been discussed in detail in other chapters The information contained under these chapters should help termite management in a way that natural resources can be used and maintained for the generations to come Similarly the chapter on physical barriers contributes a wealth of information that can be useful all over the world where termite is a problem Emphasis has been laid on reviewing contribution of synthetic chemical insecticides in termite management A separate chapter dealing with

standard norms in wood protection constitute a significant step in this direction A further chapter throws light on the potential of biotechnology as a tool in management The Fungal Community John Dighton, James F. White, 2017-03-16 a number of chapters provide excellent summaries of the modern methods available for studying fungal ecology along with those more traditional methods that are still extremely valuable overall it is a hugely valuable compendium of fungal ecology research It is a must for the library shelf Lynne Boddy Cardiff University UK Mycological Research 2006 These 44 chapters are an excellent starting point for anyone interested in fungal communities in the broadest sense of the term It is a book for dipping into may be the last comprehensive treatment of fungal communities before the molecular revolution Meriel Jones University of Liverpool UK Microbiology Today the scope of the work is tremendous Excellent chapters providing overviews of methods provide a snap shot of the current approaches used to understand fungal communities at several levels of organization This book should probably be on the shelf of every student of mycology and many ecologists too For all students this book should be a valuable resource and source of inspiration Daniel Henk Imperial College Faculty of Medicine London in Inoculum Vol 59 No 3 May 2008 Thorough taxonomic and subject indices further aid the reader in navigating through multiple authors treatments of subjects of interest Anthony Amend Department of Botany University of Hawaii at Manoa in Economic Botany V 61 In all subjects in science new findings and the use of new technologies allow us to develop an ever greater understanding of our world Expanded and updated coverage in the fourth edition includes Adds new sections on Integrating Genomics and Metagenomics into Community Analysis Recent Advances in Fungal Endophyte Research Fungi in the Built Environment and Fungal Signaling and Communication Includes a broader treatment of fungal communities in natural ecosystems with in depth coverage of fungal adaptations to stress and conservation Expands coverage of the influence of climate change on fungi and the role of fungi in organically polluted ecosystems Includes contributions from scientists from 20 nations to illustrate a true global approach for bridging gaps between ecological concepts and mycology

Intestinal Microorganisms of Termites and Other Invertebrates Helmut König, 2006 This is the first work to focus on microbes in gut systems of soil animals Beginning with an overview of the biology of soil invertebrates the text turns to the gut microbiota of termites which are important soil processors in tropical and subtropical regions Coverage extends to intestinal microbiota of such other litter decomposers as earthworms springtails millipedes and woodlice Thoroughly illustrated including color photographs *Insect Biodiversity* Robert G. Foottit, Peter H. Adler, 2018-04-11 Volume Two of the new guide to the study of biodiversity in insects Volume Two of Insect Biodiversity Science and Society presents an entirely new companion volume of a comprehensive resource for the most current research on the influence insects have on humankind and on our endangered environment With contributions from leading researchers and scholars on the topic the text explores relevant topics including biodiversity in different habitats and regions taxonomic groups and perspectives Volume Two offers coverage of insect biodiversity in regional settings such as the Arctic and Asia and in particular habitats

including crops caves and islands The authors also include information on historical cultural technical and climatic perspectives of insect biodiversity 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 examine the consequences that an increased loss of insect species will have on the world This important text Offers the most up to date information on the important topic of insect biodiversity Explores vital topics such as the impact on insect biodiversity through habitat loss and degradation and climate change With its companion Volume I presents current information on the biodiversity of all insect orders Contains reviews of insect biodiversity in culture and art in the fossil record and in agricultural systems Includes scientific approaches and methods for the study of insect biodiversity The book offers scientists academics professionals and students a guide for a better understanding of the biology and ecology of insects highlighting the need to sustainably manage ecosystems in an ever changing global environment

Food Exploitation By Social Insects Stefan Jarau, Michael Hrncir, 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

Insect Ecology Peter W. Price, Robert F. Denno, Micky D. Eubanks, Deborah L. Finke, Ian Kaplan, 2011-08-18 Combining breadth of coverage with detail this logical and cohesive introduction to insect ecology couples concepts with a broad range of examples and practical applications It explores cutting edge topics in the field drawing on and highlighting the links between theory and the latest empirical studies The sections are structured around a series of key topics including behavioral ecology species interactions population ecology food webs communities and ecosystems and broad patterns in nature Chapters progress logically from the small scale to the large from individual species through to species interactions populations and communities Application sections at the end of each chapter outline the practicality of ecological concepts and show how ecological information and concepts can be useful in agriculture horticulture and forestry Each chapter ends with a summary providing a brief recap followed by a set of questions and discussion topics designed to encourage independent and creative thinking

Insect Physiological Ecology Steven Chown, Sue Nicolson, 2004-07-15 Insects exhibit incredible physiological diversity making them ideal model organisms for the purpose of this book The authors draw together the central issues in physiology nutrition water balance temperature etc treating each in sufficient detail to give researchers a broad update in summary form as well as senior students a feel for current work in the field In addition they examine patterns in physiological variation and go on to explore the mechanisms underlying this variation as well as the ecological and evolutionary consequences

The Mechanistic Benefits of Microbial Symbionts Christon J. Hurst, 2016-05-24 This volume summarizes recent advances in our understanding of the mechanisms that produce successful symbiotic partnerships involving microorganisms It begins with a basic introduction to

the nature of and mechanistic benefits derived from symbiotic associations Taking that background knowledge as the starting point the next sections include chapters that examine representative examples of coevolutionary associations that have developed between species of microbes as well as associations between microbes and plants The authors conclude with a section covering a broad range of associations between microbes and invertebrate animals in which they discuss the spectrum of hosts with examples ranging from bryozoans and corals to nematodes arthropods and cephalopods Join the authors on this journey of understanding

Symbiosis Joseph Seckbach, 2006-04-11 *Symbiosis* is the fourth volume in the series *Cellular Origin and Life in Extreme Habitats* COLE Fifty experts from over a dozen countries review their current studies on different approaches to these phenomena The chapters present various aspects of symbiosis from gene transfer morphological features and biodiversity to individual organisms sharing mutual cellular habitats The origin of the eukaryotic phase is discussed with emphasis on cyanelles H syntrophy N₂ fixation and S based symbiosis as well as the origin of mitochondrion chloroplast and nucleus All members of the three domains of life are presented for sharing symbiotic associations This volume brings the concept of living together as One plus One plus One equals One The purpose of this book is to introduce the teacher researcher scholar and student as well as the open minded and science oriented reader to the global importance of this association

Termites of the Gods Siyakha Mguni, 2015-03-01 Siyakha Mguni's personal journey over many years to discover the significance of a hitherto enigmatic theme in San rock paintings known as formlings In *Termites of the Gods* Siyakha Mguni narrates his personal journey over many years to discover the significance of a hitherto enigmatic theme in San rock paintings known as formlings Formlings are a painting category found across the southern African region including South Africa Namibia and Zimbabwe with its densest concentration in the Matopo Hills Zimbabwe Generations of archaeologists and anthropologists have wrestled with the meaning of this painting theme in San cosmology without reaching consensus or a plausible explanation Drawing on San ethnography published over the past 150 years Mguni argues that formlings are in fact representations of flying termites and their underground nests and are associated with botanical subjects and a range of larger animals considered by the San to have great power and spiritual significance This book fills a gap in rock art studies around the interpretation and meaning of formlings It offers an innovative methodological approach for understanding subject matter in San rock art that is not easily recognisable and will be an invaluable reference book to students and scholars in rock art studies and archaeology

Nematology Mohammad Manjur Shah, Mohammad Mahamood, 2017-08-16 *Nematology* being an established discipline covers a wide range of area ranging from basic aspect to the advanced and applied aspects involving recent advances in molecular techniques This book discusses the following topics the role of nematodes in our life in agriculture ecosystem functioning experimental biology ecological studies pest management programs or biocontrol identification of GRSPs in nematode genomes novel way for the diagnosis of pathogenic nematodes involving various recent molecular techniques other methodologies for successful control

of termites evolution of plant parasitic nematodes viability of adult filarial nematode parasites the impact of plant parasitic nematodes on crops and harnessing useful rhizosphere microorganisms for nematode control The book also encompasses on classical study molecular study bioinformatics in nematology biodiversity analysis and culturing of nematodes in laboratory condition

The Atlantic Forest Marcia C. M. Marques, Carlos E. V. Grelle, 2021-01-13 The Atlantic Forest is one of the 36 hotspots for biodiversity conservation worldwide It is a unique large biome more than 3000 km in latitude 2500 in longitude marked by high biodiversity high degree of endemic species and at the same time extremely threatened Approximately 70% of the Brazilian population lives in the area of this biome which makes the conflict between biodiversity conservation and the sustainability of the human population a relevant issue This book aims to cover 1 the historical characterization and geographic variation of the biome 2 the distribution of the diversity of some relevant taxa 3 the main threats to biodiversity and 4 possible opportunities to ensure the biodiversity conservation and the economic and social sustainability Also it is hoped that this book can be useful for those involved in the development of public policies aimed at the conservation of this important global biome

The Evolution of Insect Mating Systems David Shuker, Leigh Simmons, 2014-07-31 Insects display a staggering diversity of mating and social behaviours Studying these systems provides insights into a wide range of evolutionary and behavioural questions such as the evolution of sex sexual selection sexual conflict and parental care This edited volume provides an authoritative update of the landmark book in the field *The Evolution of Insect Mating Systems* Thornhill and Alcock 1983 which had such a huge impact in shaping adaptationist approaches to the study of animal behaviour and influencing the study of the evolution of reproductive behaviour far beyond the taxonomic remit of insects This accessible new volume brings the empirical and conceptual scope of the original book fully up to date incorporating the wealth of new knowledge and research of the last 30 years It explores the evolution of complex forms of sex determination in insects and the role of sexual selection in shaping the evolution of mating systems Selection arising via male contest competition and female choice both before and after copulation are discussed as are the roles of parasites and pathogens in mediating the strength of sexual selection and the role that parental care plays in successful reproduction *The Evolution of Insect Mating Systems* is suitable for both graduate students and researchers interested in insect mating systems or behaviour from an evolutionary genetical physiological or ecological perspective Due to its interdisciplinary and concept driven approach it will also be of relevance and use to a broad audience of evolutionary biologists

Biology and Management of the Formosan Subterranean Termite and Related Species Nan-Yao Su, Chow-Yang Lee, 2023-12-22 The Formosan subterranean termite *Coptotermes formosanus* is the most destructive and invasive termite species globally It is also the only termite species listed in the world's 100 worst invasive alien species of the Global Invasive Species Database Annually its infestation costs more than 4 billion in control and damage repairs in the USA alone This book is the first comprehensive resource drawing on all the literature on *C. formosanus* since Tokuichi Shiraki first described the species in

1909 The book covers the worldwide distribution of this species its biogeography and how it has dispersed from its native range in southern China and Taiwan to different parts of the world It describes its present taxonomic status and discusses the species biology ecology foraging behavior physiology chemical ecology and its association with symbionts From a practical standpoint the authors address all of the various management options for this species such as baits soil termiticides wood preservatives inspection and detection technologies and Integrated Pest Management IPM approaches Lastly there are chapters dedicated to another important destructive species *Coptotermes gestroi* the Asian subterranean termite and the recently discovered *C formosanus* *C gestroi* hybrids This important book is an essential and valuable reference for researchers graduate students pest management professionals chemical manufacturer personnel building and property managers and others It provides readers with a comprehensive understanding of the biology and management of the Formosan subterranean termite and the Asian subterranean termite Manipulative Tenants Einat Zchori-Fein, Kostas Bourtzis, 2011-07-06 In the English edition of his landmark book *Endosymbiosis of Animals with Plant Microorganisms* 1965 Professor Paul Buchner probably the most prominent founder of systematic symbiosis research wrote I too soon fell victim to the spell of this subject and from 1911 on devoted myself to it Almost half a century later a growing number of entomologists are recognizing the impact that arthropod bacteria symbiosis has on virtually all aspects of the biology of both host and symbiont The discussion of this subject tends to be system based with primary emphasis on the insect host However recent screening studies have revealed that the diversity of bacteria associated with arthropods may not be as wide as initially expected and some genera are constantly being found in hosts that belong to distantly related taxa *Manipulative Tenants: Bacteria Associated with Arthropods* introduces the fascinating world of bacteria arthropod associations with an emphasis on the bacterial partner Written by an interdisciplinary team of international contributors this book provides an overview of the diversity of bacterial symbionts identified to date as frequent partners of terrestrial arthropods It discusses primary obligatory symbionts as well as the most abundant secondary facultative symbionts currently known Summarizing the most up to date information available on each symbiont the book presents a synopsis of the field from the bacterial angle Chapters examine Proteobacteria including *Sodalis* and *Wigglesworthia* in tsetse flies and *Stammerula* and other symbiotic bacteria in fruit flies as well as Bacteroidetes such as *Blattabacterium* and *Cardinium* The book also identifies questions that emerge from the study of these systems This comprehensive reference introduces the topic of bacteria arthropod associations to researchers who are not familiar with it enlarges the scope of knowledge of those who are and provides a textbook for students in microbiology and other branches of biology

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