

Parasites in Social Insects

PAUL SCHMID-HEMPEL



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Parasites In Social Insects

**National Research Council, Division of
Behavioral and Social Sciences and
Education, Committee on Population**

Parasites In Social Insects:

Parasites in Social Insects Paul Schmid-Hempel, 1998-11-22 In addition the author develops new insights especially in his examination of the intricate relationships between parasites and their social hosts through the rigorous use of evolutionary and ecological concepts

The Social Insects William Morton Wheeler, 1928

Parasites in Social Insects Paul Schmid-Hempel, 2019-12-31 This book analyzes for the first time how parasites shape the biology of social insects the ants wasps bees and termites Paul Schmid Hempel provides an overview of the existing knowledge of parasites in social insects Current ideas are evaluated using a broad database and the role of parasites for the evolution and maintenance of the social organization and biology of insects is carefully scrutinized In addition the author develops new insights especially in his examination of the intricate relationships between parasites and their social hosts through the rigorous use of evolutionary and ecological concepts Schmid Hempel identifies gaps in our knowledge about parasites in social insects and uses models to develop new questions for future research In addition issues that are usually considered separately such as division of labor genetics immunology and epidemiology are placed in a common framework to analyze two of the most successful adaptations of life parasitism and sociality This work will appeal not only to practitioners in the fields of behavioral ecology and sociobiology but also to others interested in host parasite relationships or in social organisms such as apiculturists struggling to overcome the problems arising from mite infestations of honeybee colonies

Parasites in Social Insects Paul Schmid-Hempel, 1998-11-22 In addition the author develops new insights especially in his examination of the intricate relationships between parasites and their social hosts through the rigorous use of evolutionary and ecological concepts

Host Manipulation by Parasites David P. Hughes, Jacques Brodeur, Frédéric Thomas, 2012-06-07 Parasites that manipulate the behaviour of their hosts represent striking examples of adaptation by natural selection This text provides an authoritative review of host manipulation by parasites that assesses developments in the field and lays out a framework for future research

Encyclopedia of Social Insects Christopher K. Starr, 2021-01-10 A comprehensive multi author treatise on the social insects of the world with some auxiliary attention to such adjacent topics as subsocial insects and social arachnids The work is to serve as a very convenient yet authoritative reference work on the biology and systematics of social insects of the world This is a project of the International Union for the Study of Social Insects IUSI the worldwide organizing body for the scientific study of social insects

Tylenchida Mohammad Rafiq Siddiqi, 2000-01-01 This second edition incorporates development and changes in the taxonomy of Tylenchida since 1986 The book is divided into 9 chapters I Introduction Historical Review and Techniques II Morphological characters and taxonomic methods III Order Tylenchida IV Suborder Tylenchina V Infraorder Anguinata VI Suborder Hoplolaimina VII Superfamily Dolichodoroidea VIII Suborder Criconeumatina IX Suborder Hexatyline There are 1163 references listed at the back as is an index to all the taxa subgenera and all higher taxonomic categories of Tylenchida that have been diagnosed and discussed in the book In this edition the

classification is upgraded and several changes made including the recognition of Hoplolaimina removal of Myenchina from Tylenchida and the proposals of Anguinata and Tylenchata as infraorders of Tylenchina Hoplolaimina recognised by the presence of phasmids and didelphy has two superfamilies Hoplolaimoidea and Dolichodoroidea Hoplolaimoidea has five families Hoplolaimidae Rotylenchulidae Pratylenchidae Meloidogynidae and Heteroderidae The revised system of classification and composition of Tylenchida are compared with those of Maggenti et al 1988 Taxonomic comments are frequently made on the changes proposed in the book Brachydorinae subfam nov is proposed for Brachydorus under Dolichodoridae and Tanzaniinae subfam nov is proposed under Tylenchidae Merodorinae is assigned to Telotylenchidae Heteroderidae contains Heteroderinae Meloidoderinae and Ataloderinae Basirienchus and Rhabdotylenchus have been synonymised with Basiria and Brevicephalodera with Afenestrata New genera proposed are Fraglenchus in Tylenchinae Telomalenchus as a new subgenus of Malenchus and Ridgellus in Duosulciinae Chilenchus under Ecphyadophoroidinae Ethiolaimus as a subgenus of Hoplolaimus in Hoplolaiminae and Orphreyus as a subgenus of Ogma in Criconematinae Calvatylus Pararotylenchus and Plesiorotylenchus have been considered as subgenera of Rotylenchus and Amphisbaenema and Macrocriconema as subgenera of Criconema and Ogma respectively Macroposthonia is considered as a valid genus and Criconemella as a subgenus of Criconemoides Skarbilovinema Wachekitylenchus and Incurvinema have been assigned to Iotonchinae Kurochkinitylenchinae and Spilotylenchinae respectively and Rubzovinema to Rubzovinematinae of Neotylenchidae All the species proposed under the order Tylenchida are listed under their respective genera Full generic diagnosis and differential keys are provided for all 225 valid genera of Tylenchida 21 of these are considered as subgenera 3 as genera dubia and another 3 as genera inquirenda There are 105 genera listed as invalid synonyms The number of species considered as valid in Tylenchida is 2828 in addition 413 species have been regarded as invalid synonyms while 163 species are considered as species inquirendae dubiae requiring further study Neodolichodorus rageshi sp nov is proposed for Neodolichodorus sp apud Rashid Geraert Sharma 1987 There are 101 new combinations proposed

Biology of Blood-Sucking Insects Mike Lehane, 2012-12-06 Blood sucking insects are the vectors of many of the most debilitating parasites of man and his domesticated animals In addition they are of considerable direct cost to the agricultural industry through losses in milk and meat yields and through damage to hides and wool etc So not surprisingly many books of medical and veterinary entomology have been written Most of these texts are organized taxonomically giving the details of the life cycles bionomics relationship to disease and economic importance of each of the insect groups in turn I have taken a different approach This book is topic led and aims to discuss the biological themes which are common in the lives of blood sucking insects To do this I have concentrated on those aspects of the biology of these fascinating insects which have been clearly modified in some way to suit the blood sucking habit For example I have discussed feeding and digestion in some detail because feeding on blood presents insects with special problems but I have not discussed respiration because it is not

affected in any particular way by haematophagy Naturally there is a subjective element in the choice of topics for discussion and the weight given to each I hope that I have not let my enthusiasm for particular subjects get the better of me on too many occasions and that the subject material achieves an overall balance

Plight of the Living Dead Matt Simon, 2018-10-02 A brain bending exploration of real life zombies and mind controllers and what they reveal to us about nature and ourselves Zombieism isn't just the stuff of movies and TV shows like The Walking Dead It's real and it's happening in the world around us from wasps and worms to dogs and moose and even humans In Plight of the Living Dead science journalist Matt Simon documents his journey through the bizarre evolutionary history of mind control Along the way he visits a lab where scientists infect ants with zombifying fungi joins the search for kamikaze crickets in the hills of New Mexico and travels to Israel to meet the wasp that stings cockroaches in the brain before leading them to their doom Nothing Hollywood dreams up can match the brilliant horrific zombies that natural selection has produced time and time again Plight of the Living Dead is a surreal dive into a world that would be totally unbelievable if very smart scientists didn't happen to be proving it's real and most troublingly or maybe intriguingly of all how even we humans are affected Fantastic You'll be thinking about this book long after you're done reading it Kelly Weinersmith New York Times bestselling coauthor of *Soonish*

The Other Insect Societies James T. Costa, 2006-09-30 In his exploration of insect societies that don't fit the eusocial schema James T. Costa gives these interesting phenomena their due He synthesizes the scattered literature about social phenomena across the arthropod phylum beetles and bugs caterpillars and cockroaches mantids and membracids sawflies and spiders

Predators and Parasitoids Opende Koul, G. S. Dhaliwal, 2003-03-13 Their natural enemies largely determine the population size and dynamic behavior of many plant eating insects Any reduction in enemy number can result in an insect outbreak Applied biological control is thus one strategy for restoring functional biodiversity in many agroecosystems *Predators and Parasitoids* addresses the role of natural enemies in

Evolutionary Parasitology Paul Schmid-Hempel, 2021-07-15 Parasites and infectious diseases are everywhere and represent some of the most potent forces shaping the natural world They affect almost every aspect imaginable in the life of their hosts even as far as the structure of entire ecosystems Hosts in turn have evolved complex defences with immune systems being among the most sophisticated processes known in nature In response parasites have again found ways to manipulate and exploit their hosts Ever since life began hosts and parasites have taken part in this relentless co-evolutionary struggle with far reaching consequences for us all Today concepts borrowed from evolution ecology parasitology and immunology have formed a new synthesis for the study of host parasite interactions Evolutionary parasitology builds on these established fields of scientific enquiry but also includes some of the most successful interdisciplinary areas of modern biology such as evolutionary epidemiology and ecological immunology The first edition of this innovative text quickly became the standard reference text for this new discipline Since then the field has progressed rapidly and an update is now required This new edition has been thoroughly

revised to provide a state of the art overview from the molecular bases to adaptive strategies and their ecological and evolutionary consequences It includes completely new material on topics such as microbiota evolutionary genomics phylodynamics within host evolution epidemiology disease spaces and emergent diseases Evolutionary Parasitology is suitable for advanced undergraduates graduate level students and interdisciplinary researchers from a variety of fields including immunology genetics sexual selection population ecology behavioural ecology epidemiology and evolutionary biology Those studying and working in adjacent fields such as conservation biology virology medicine and public health will also find it an invaluable resource for connecting to the bases of their science

Comparative Social Evolution Dustin R. Rubenstein, Patrick Abbot, 2017-03-24 Darwin famously described special difficulties in explaining social evolution in insects More than a century later the evolution of sociality defined broadly as cooperative group living remains one of the most intriguing problems in biology Providing a unique perspective on the study of social evolution this volume synthesizes the features of animal social life across the principle taxonomic groups in which sociality has evolved The chapters explore sociality in a range of species from ants to primates highlighting key natural and life history data and providing a comparative view across animal societies In establishing a single framework for a common trait based approach towards social synthesis this volume will enable graduate students and investigators new to the field to systematically compare taxonomic groups and reinvigorate comparative approaches to studying animal social evolution

Great Adaptations Kenneth Catania, 2021-10-12 Presents an entertaining and engaging look at some of nature s most remarkable creatures Shows not only how studying these animals can provide deep insights into how life evolved but also how scientific discovery can be filled with adventure and fun Adapted from cover

A History of Biology Michel Morange, 2023-08-15 This book presents a complete global history of the biological sciences from ancient times to today introducing a long term perspective to the history of biological thought while showing its fractures and upheavals through the ages The history of biology often neglects certain areas such as ecology ethology the study of non human animal behavior and plant biology areas which are covered in this work The broad global perspective offered here will allow the reader to better appreciate the nature of the interdisciplinary exchanges that have shaped the biological sciences perhaps more than any other discipline Much attention is also given to the contribution of technology the role of experimentation and more generally the social and technological environment within which scientific transformations develop

A Place Like No Other Anthony R. E. Sinclair, 2025-08-19 From famed zoologist Anthony Sinclair an account of his decades long quest to understand one of Earth s most spectacular ecosystems With its rich biodiversity astounding wildlife and breathtaking animal migrations Serengeti is like no other ecosystem on the planet A Place like No Other is Anthony Sinclair s firsthand account of how he and other scientists discovered the biological principles that regulate life in Serengeti and how they rule all of the natural world When Sinclair first began studying this spectacular ecosystem in 1965 a host of questions confronted him What environmental features

make its annual migration possible What determines the size of animal populations and the stunning diversity of species What factors enable Serengeti to endure over time In the five decades that followed Sinclair and others sought answers What they learned is that seven principles of regulation govern all natural processes in the Serengeti ecosystem Sinclair shows how these principles can help us to understand and overcome the challenges facing Serengeti today and how they can be used to repair damaged habitats throughout the world Blending vivid storytelling with invaluable scientific insights from Sinclair's pioneering fieldwork in Africa *A Place like No Other* reveals how Serengeti holds timely lessons for the restoration and conservation of our vital ecosystems

The Evolution and Fossil Record of Parasitism Kenneth De Baets, John Warren Huntley, 2021-05-07 This two volume edited book highlights and reviews the potential of the fossil record to calibrate the origin and evolution of parasitism and the techniques to understand the development of parasite host associations and their relationships with environmental and ecological changes The book deploys a broad and comprehensive approach aimed at understanding the origins and developments of various parasite groups in order to provide a wider evolutionary picture of parasitism as part of biodiversity This is in contrast to most contributions by parasitologists in the literature that focus on circular lines of evidence such as extrapolating from current host associations or distributions to estimate constraints on the timing of the origin and evolution of various parasite groups This approach is narrow and fails to provide the wider evolutionary picture of parasitism on and as part of biodiversity Volume one focuses on identifying parasitism in the fossil record and sheds light on the distribution and ecological importance of parasite host interactions over time In order to better understand the evolutionary history of parasites and their relationship with changes in the environment emphasis is given to viruses bacteria protists and multicellular eukaryotes as parasites Particular attention is given to fungi and metazoans such as bivalves cnidarians crustaceans gastropods helminths insects mites and ticks as parasites Researchers specifically evolutionary paleo biologists and parasitologists interested in the evolutionary history of parasite host interactions as well as students studying parasitism will find this book appealing

Sociality, Hierarchy, Health National Research Council, Division of Behavioral and Social Sciences and Education, Committee on Population, 2014-09-16 *Sociality Hierarchy Health Comparative Biodemography* is a collection of papers that examine cross species comparisons of social environments with a focus on social behaviors along with social hierarchies and connections to examine their effects on health longevity and life histories This report covers a broad spectrum of nonhuman animals exploring a variety of measures of position in social hierarchies and social networks drawing links among these factors to health outcomes and trajectories and comparing them to those in humans *Sociality Hierarchy Health* revisits both the theoretical underpinnings of biodemography and the empirical findings that have emerged over the past two decades

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.

The Social Wasps of North America Chris Alice Kratzer, 2022-01-08. With over 400 pages and 900 full color illustrations, *The Social Wasps of North America* is the world's first complete illustrated field guide to all known species of social wasps from the high arctic of Greenland and Alaska to the tropical forests of Panama and Grenada. For beginners, experts, and everyone in between, *The Social Wasps of North America* provides new insights about some of the world's least popular beneficial insects, plus tips and tricks to avoid painful stings. This book includes detailed information about the ecology, evolution, taxonomy, anatomy, nest architecture, and conservation of social wasp species. To purchase this book in softcover format, visit our website at OwlflyLLC.com/publications.

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