

Evolutionary Parasitology The Integrated Study Of

Coevolution of Life on Hosts Dale H. Clayton, Sarah E. Bush, Kevin P. Johnson. 2016 For many of us, the mere mention of lice forces an immediate hand to the head, and recollection of childhood experience with nits, special shampoos, etc. But for a certain breed of biologist, lice make for fascinating scientific fodder, especially so if you are a scientist studying coevolution. Lice and their various hosts--humans, birds, etc. --provide a stunning example of the ecology of species coevolution. This system of complex symbiotic relations reveals some of the ecological principles of coevolutionary relations, one of the most exciting areas of research in evolutionary biology of recent. This work provides an introduction to coevolutionary concepts and approaches, ranging from microevolutionary (ecological) time to macroevolutionary time. The authors then use the system of parasitic lice and their hosts to illustrate some of these different concepts and approaches. They draw examples from a variety of other coevolving systems for comparative purposes, and emphasize the integration of cophylogenetic, comparative, and experimental data in testing coevolutionary hypotheses. Because lice are permanent parasites that spend their entire lifecycle on the body of the host, their close ecological association makes them ideally suited for this kind of synthetic overview of coevolution.

A Functional Biology of Parasitism Gerald W. Esch, Jacqueline C. Fernández. 1993 1 Introduction.- 1.1 The extent of parasitism.- 1.2 Definitions.- 1.3 The concept of harm.- 1.4 Some adaptations to parasitism.- 1.5 Life cycle and ecology.- >2 Population concepts.- 2.1 Background.- 2.2 General definitions.- 2.3 Factors affecting parasite populations.- 2.4 The dispersion concept.- 2.5 Dynamics of population growth.- 3 Factors influencing parasite populations.- 3.1 Density-independent factors: introduction.- 3.2 Density-independent factors: case histories.- 3.3 Density-dependent factors: introduction.- 3.4 Density-dependent factors: case histories.- 3.5 Suprapopulation dynamics: introduction.- 3.6 Suprapopulation dynamics: case histories.- 4 Influence of parasites on host populations.- 4.1 Introduction to the concept of regulation.- 4.2 Crofton's approach.- 4.3 Overdispersion and regulation: introduction.- 4.4 Overdispersion and regulation: case histories.- 4.5 Epidemiological implications.- 4.6 Models.- 5 Life history strategies.- 5.1 Introduction.- 5.2 Reproductive strategies.- 5.3 Colonization strategies.- 5.4 Host behaviour and transmission.- 5.5 Theoretical considerations.- 6 Infracommunity dynamics.- 6.1 Introduction.- 6.2 The evolution of parasite communities.- 6.3 Infracommunity structure.- 6.4 The screen/filter concept.- 7 Component and compound communities.- 7.1 Introduction.- 7.2 Core-satellite and generalist-specialist species concepts.- 7.3 Determinants of component communities.- 7.4 Habitat variability (succession) and parasitism.- 7.5 The biocoenosis and parasite flow.- 7.6 The allogenic-autogenic species concept.- 8 Biogeographical aspects.- 8.1 Introduction.- 8.2 Factors affecting the geographical distribution of parasites.- 8.3 Patterns of distribution.- 8.4 Ecological aspects.- 8.5 Applied aspects of biogeography.- 9 Evolutionary aspects.- 9.1 Introduction.- 9.2 Microevolution.- 9.3 Evolution of host-parasite interactions.- 9.4 Parasite influence in the evolutionary biology of the host.- 10 Summary.- 10.1 Introduction.- 10.2 Population concepts.- 10.3 Factors influencing parasite populations.- 10.4 Influence of parasites on host populations.- 10.5 Life-history strategies.- 10.6 Infracommunity dynamics.- 10.7 Component and compound communities.- 10.8 Biogeographical aspects.- 10.9 Evolutionary aspects.- 10.10 What next for the evolution and ecology of parasitism?.- References.- Taxonomic host index.- Taxonomic parasite index.

Natural History of Host-Parasite Interactions .2009-03-14 This volume covers a wide range of systems, exemplified by a broad spectrum of micro- and macro-parasites, impacting humans, domestic and wild animals and plants. It illustrates the importance of evolutionary considerations and concepts, both as thinking tools for qualitative understanding or as guiding tools for decision making in major disease control programs. * Brings together a range of articles from scientists from different fields of research and/or disease control, but with a common interest in studying the biology of a variety of parasitic diseases * Evolutionary theory has an important role to play in both the interpretation of host and parasitic dynamics and the design and application of disease control programs

Genetics of Host and Parasite D. Wakelin, D. Walliker. 1996 This collection of articles, edited by D. Wakelin and D. Walliker include: Genetic variability in parasites and host-parasite interactions; Host genetics and infectious disease; T cell and cytokine basis of host variability in response to intestinal nematode infections; The role of MHC- and non-MHC-associated genes in determining the human immune response to malaria antigens; Influence of host and parasite genotypes on immunological control of Theileria parasites; Genetic susceptibility to leishmanial infections: studies in mice and man; Genetic susceptibility to malaria and other infectious diseases: from MHC to the whole genome. This volume is the specially commissioned supplement to the journal Parasitology, volume 112.

Avian Malaria and Related Parasites in the Tropics Diego Santiago-Alarcon, Alfonso Marzal. 2020-10-19 The Tropics are home to the greatest biodiversity in the world, but tropical species are at risk due to anthropogenic activities, mainly land use change, habitat loss, invasive species, and pathogens. Over the past 20 years, the avian malaria and related parasites (Order: Haemosporida) systems have received increased attention in the tropical regions from a diverse array of research perspectives. However, to date no attempts have been made to synthesize the available information and to propose new lines of research. This book provides such a synthesis by not only focusing on the antagonistic interactions, but also by providing conceptual chapters on topics going from avian haemosporidians life cycles and study techniques, to chapters addressing current concepts on ecology and evolution. For example, a chapter synthesizing basic biogeography and ecological niche model concepts is presented, followed by one on the island biogeography of avian haemosporidians. Accordingly, researchers and professionals interested in these antagonistic interaction systems will find both an overview of the field with special emphasis on the tropics, and access to the necessary conceptual framework for various topics in ecology, evolution and systematics. Given its conceptual perspective, the book will appeal not only to readers interested in avian haemosporidians, but also to those more generally interested in the ecology, evolution and systematics of host-parasite interactions.

Parasites in Ecological Communities Melanie J. Hatcher, Alison M. Dunn. 2011-06-16 Interactions between competitors, predators and their prey have traditionally been viewed as the foundation of community structure. Parasites - long ignored in community ecology - are now recognized as playing an important part in influencing species interactions and consequently affecting ecosystem function. Parasitism can interact with other ecological drivers, resulting in both detrimental and beneficial effects on biodiversity and ecosystem health. Species interactions involving parasites are also key to understanding many biological invasions and emerging infectious diseases. This book bridges the gap between community ecology and epidemiology to create a wide-ranging examination of how parasites and pathogens affect all aspects of ecological communities, enabling the new generation of ecologists to include parasites as a key consideration in their studies. This comprehensive guide to a newly emerging field is of relevance to academics, practitioners and graduates in biodiversity, conservation and population management, and animal and human health.

Parasite Biodiversity Robert Poulin, Serge Morand. 2014-05-27 This comprehensive, groundbreaking book on the biodiversity of parasites offers a clear and accessible explanation of how parasite biodiversity provides insight into the history and biogeography of other organisms, the structure of ecosystems, and the processes that lead to the diversification of life.

Evolutionary Biology of Host-parasite Relationships Robert Poulin, S. Morand, A. Skorping. 2000 This book brings together recent theoretical and empirical developments in all aspects of the study of host-parasite coevolution, including epidemiology, the evolution of parasite virulence, specificity and life history traits, and the evolution of host defences and life history strategies. The book covers all host and parasite taxa, and also explores some of the practical consequences of host-parasite evolution for veterinary and medical sciences.

Parasitism Claude Combes. 2001 In Parasitism, Claude Combes explores the fascinating adaptations parasites have developed through their intimate interactions with their hosts. He begins with the biology of

parasites—their life cycles, habitats, and different types of associations with their hosts. Next he discusses genetic interactions between hosts and parasites, and he ends with a section on the community ecology of parasites and their role in the evolution of their hosts. Throughout the book Combes enlivens his discussion with a wealth of concrete examples of host-parasite interactions.

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.

Parasite-host Associations Catherine Ann Toft, André Aeschlimann, Liana Bolis. 1991 Parasitic relationships are among the most common yet complex associations found in nature. This book makes an important contribution toward integrating parasitology into the mainstream of ecological and evolutionary studies. It delves into a number of key questions: To what extent are parasite-host interactions an escalating evolutionary conflict and, conversely, to what extent has evolution modified this process to facilitate co-existence? The first section of the book deals with whole organisms and populations, since the effects of parasitism are dependent on the densities and distributions of hosts and parasites. The next section considers special cases, such as herbivores and plants. The third part is devoted to physiological and immunological aspects, and the book concludes with an overview from the perspectives of ecology, evolution, and physiology. The work will interest ecologists, evolutionary biologists, parasitologists, entomologists, and epidemiologists.

Parasitism and Host Behaviour C F Barnard. 1990-08-09 Recent ideas and experimental studies suggest that the relationship between parasitism and host behaviour has been a powerful shaping force in the evolution not only of behaviour patterns themselves but, through them, of morphology and population and community dynamics. This book brings together recent work across the disciplines of parasitology and

Parasitology Eric Loker, Bruce Hofkin. 2015-03-02 Parasitology: A Conceptual Approach focuses on the conceptual basis of parasitology, with the goal of providing students with an enriched view of parasites and their biology. Concentrating on concepts will enable readers to gain a broader perspective that will increase their ability to think critically about all kinds of parasitic associations. The interfaces between the study of parasitism and prominent biological disciplines such as biodiversity, immunology, ecology, evolution, conservation biology, and disease control are highlighted. Studying individual parasites is an essential part of parasitology so Parasitology: A Conceptual Approach contains an appendix which provides a concise overview of the biology of important human and veterinary parasites. End-of-chapter questions are provided, as is an instructor manual.

Immunology and Evolution of Infectious Disease Steven A. Frank. 2020-10-06 From HIV to influenza, the battle between infectious agents and the immune system is at the heart of disease. Knowledge of how and why parasites vary to escape recognition by the immune system is central to vaccine design, the control of epidemics, and our fundamental understanding of parasite ecology and evolution. As the first comprehensive synthesis of parasite variation at the molecular, population, and evolutionary levels, this book is essential reading for students and researchers throughout biology and biomedicine. The author uses an evolutionary perspective to meld the terms and findings of molecular biology, immunology, pathogen biology, and population dynamics. This multidisciplinary approach offers newcomers a readable introduction while giving specialists an invaluable guide to allied subjects. Every aspect of the immune response is presented in the functional context of parasite recognition and defense—an emphasis that gives structure to a tremendous amount of data and brings into sharp focus the great complexity of immunology. The problems that end each chapter set the challenge for future research, and the text includes extensive discussion of HIV, influenza, foot-and-mouth disease, and many other pathogens. This is the only book that treats in an integrated way all factors affecting variation in infectious disease. It is a superb teaching tool and a rich source of ideas for new and experienced researchers. For molecular biologists, immunologists, and evolutionary biologists, this book provides new insight into infectious agents, immunity, and the evolution of infectious disease.

The Evolution and Fossil Record of Parasitism Kenneth De Baets, John Warren Huntley. 2022-01-01 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 two focuses on the importance of direct host associations and host responses such as pathologies in the geological record to constrain the role of antagonistic interactions in driving the diversification and extinction of parasite-host relationships and disease. To better understand the impact on host populations, emphasis is given to arthropods, colonial metazoans, echinoderms, mollusks and vertebrates as hosts. In addition, novel techniques used to constrain interactions in deep time are discussed ranging from chemical and microscopic investigations of host remains, such as blood and coprolites, to the statistical inference of lateral transfer of transposons and host-parasite coevolutionary dynamics using molecular divergence time estimation.

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.

Evolutionary Biology of Parasites. (MPB-15), Volume 15 Peter W. Price. 2020-03-31 In spite of the fact that parasites represent more than half of all living species of plants and animals, their role in the evolution of life on earth has been substantially underestimated. Here, for the first time within an evolutionary and ecological framework, Peter Price integrates the biological attributes that characterize parasites ranging from such diverse groups as viruses, bacteria, protozoa, and fungi, to helminths, mites, insects, and parasitic flowering plants. Synthesizing systematics, ecology, behavioral biology, genetics, and biogeography, the author outlines the success of parasitism as a mode of life, the common features of the wide range of organisms that adopt such a way of life, the reasons for parasites' extraordinary potential for continued adaptive radiation, and their role in molding community structure by means of their impact on the evolution of host species. In demonstrating the importance of parasitic interactions for determining population patterns and geographical distributions, Dr. Price generates further discussion and suggests new areas for research.

Parasite Diversity and Diversification Serge Morand, Boris R. Krasnov, D. Timothy J. Littlewood. 2015-02-26 The development of molecular tools has dramatically increased our knowledge of parasite diversity and the vectors that transmit them. From viruses and protists to arthropods and helminths, each branch of the Tree of Life offers an insight into significant, yet cryptic, biodiversity. Alongside this, the studies of host-parasite

interactions and parasitism have influenced many scientific disciplines, such as biogeography and evolutionary ecology, by using comparative methods based on phylogenetic information to unravel shared evolutionary histories. Parasite Diversity and Diversification brings together two active fields of research, phylogenetics and evolutionary ecology, to reveal and explain the patterns of parasite diversity and the diversification of their hosts. This book will encourage students and researchers in the fields of ecology and evolution of parasitism, as well as animal and human health, to integrate phylogenetics into the investigation of parasitism in evolutionary ecology, health ecology, medicine and conservation.

The Evolution of Parasitism - A Phylogenetic Perspective .2004-01-02 Parasitology continues to benefit from taking an evolutionary approach to its study. Tree construction, character-mapping, tree-based evolutionary interpretation, and other developments in molecular and morphological phylogenetics have had a profound influence and have shed new light on the very nature of host-parasite relations and their coevolution. Life cycle complexity, parasite ecology and the origins and evolution of parasitism itself are all underpinned by an understanding of phylogeny. The Evolution of Parasitism - A Phylogenetic Perspective aims to bring together a range of articles that exemplifies the phylogenetic approach as applied to various disciplines within parasitology and as applied by parasitologists. Unified by the use of phylogenies, this book tackles a wide variety of parasite-specific biological problems across a diverse range of taxa. Includes important contributions from leading minds in the field such as Serge Morand, Francisco Ayala and Mark Blaxter, among others Second in the ISI Parasitology List in 2002 with an Impact Factor of 4.818 Series encompasses over 35 years of parasitology coverage

Parasitology Eric S. Loker, Bruce V. Hofkin. 2022-08-31 Produced amidst the still rippling effects of a pandemic and as the world experiences the increasing burden of global warming and a rapidly changing biosphere, the second edition of Parasitology: A Conceptual Approach offers a timely overview of the eukaryotic parasites affecting human health and the health of domestic and wild animals and plants. The book offers a broadly encompassing, integrative view of the phenomenon of parasitism and of the remarkable diversity of the world's parasites. This second edition has been thoroughly updated on all aspects of parasitism, including expanded sections on parasite biodiversity, parasite genomes, the interface between parasitology and disease ecology, and applications of new techniques like CRISPR and gene drives for parasite control. Key selling features: Emphasis on a distinctive integrative and conceptual approach rather than the taxon-by-taxon approach used in most parasitology books A concise, handy Rogues Gallery section that summarizes the basic biology for the most important eukaryotic parasites of humans and domestic animals, one a reader is repeatedly directed to throughout the chapters Outstanding full-color illustrations and photographs to reinforce key points The use of text boxes to set apart important topics or ideas that deserve special emphasis Provision of end-of-chapter summaries, questions to test understanding and key references for those wishing to seek further information Reference to particular URLs to highlight recent developments that often pose new and distinctive problems awaiting solution Parasitology: A Conceptual Approach is designed for an upper-level undergraduate audience, but its readability and careful explanation of underlying scientific concepts and terminology makes it appropriate for anyone seeking a broader understanding of the impact of infectious organisms on our well-being and the changes underway in the modern world.

Evolutionary Ecology of Parasites Robert Poulin. 2007 Publisher description

The Art of Being a Parasite Claude Combes. 2020-06-05 Parasites are a masterful work of evolutionary art. The tiny mite *Histioglyphus laboratorum*, a parasite of *Drosophila*, launches itself, in an incredible display of evolutionary engineering, like a surface-to-air missile at a fruit fly far above its head. Gravid mussels such as *Lampsilis ventricosa* undulate excitedly as they release their parasitic larval offspring, conning greedy predators in search of a tasty meal into hosting the parasite. The Art of Being a Parasite is an extensive collection of these and other wonderful and weird stories that illuminate the ecology and evolution of interactions between species. Claude Combes illustrates what it means to be a parasite by considering every stage of its interactions, from invading to reproducing and leaving the host. An accessible and engaging follow-up to Combes's Parasitism, this book will be of interest to both scholars and nonspecialists in the fields of biodiversity, natural history, ecology, public health, and evolution.

Laboratory Studies in Integrated Principles of Zoology Allan Larson, Cleveland P Hickman, Jr., Emeritus, Helen I'Anson, Larry S Roberts. 2013-10-04

Functional and Evolutionary Ecology of Fleas Boris R. Krasnov. 2012-10-25 Fleas are one of the most interesting and fascinating taxa of ectoparasites. All species in this relatively small order are obligatory haematophagous (blood-feeding) parasites of higher vertebrates. This book examines how functional, ecological and evolutionary patterns and processes of host-parasite relationships are realized in this particular system. As such it provides an in-depth case study of a host-parasite system, demonstrating how fleas can be used as a model taxon for testing ecological and evolutionary hypotheses. The book moves from basic descriptive aspects, to functional issues and finally to evolutionary explanations. It extracts several general principles that apply equally well to other host-parasite systems, so it appeals not only to flea biologists but also to 'mainstream' parasitologists and ecologists.

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.

Phylogeny, Ecology, and Behavior Daniel R. Brooks, Deborah A. McLennan. 1991 The merits of this work are many. A rigorous integration of phylogenetic hypotheses into studies of adaptation, adaptive radiation, and coevolution is absolutely necessary and can change dramatically our collective 'gestalt' about much in evolutionary biology. The authors advance and illustrate this thesis beautifully. The writing is often lucid, the examples are plentiful and diverse, and the juxtaposition of examples from different biological systems argues forcefully for the validity of the thesis. Many new insights are offered here, and the work is usually accessible to both the practiced phylogeneticist and the naive ecologist.—Joseph Travis, Florida State University [Phylogeny, Ecology, and Behavior] presents its arguments forcefully and cogently, with ample . . . support. Brooks and McLennan conclude as they began, with the comment that evolution is a result, not a process, and that it is the result of an interaction of a variety of processes, environmental and historical. Evolutionary explanations must consider all these components, else they are incomplete. As Darwin's explanations of descent with modification integrated genealogical and ecological information, so must workers now incorporate historical and nonhistorical, and biological and nonbiological, processes in their evolutionary perspective.—Marvalee H. Wake, Bioscience This book is well-written and thought-provoking, and should be read by those of us who do not routinely turn to phylogenetic analysis when investigating adaptation, evolutionary ecology and co-evolution.—Mark R. MacNair, Journal of Natural History

The Evolution of Parasitism - A Phylogenetic Perspective .2003-12-09 Parasitology continues to benefit from taking an evolutionary approach to its study. Tree construction, character-mapping, tree-based evolutionary interpretation, and other developments in molecular and morphological phylogenetics have had a profound influence and have shed new light on the very nature of host-parasite relations and their coevolution. Life cycle complexity, parasite ecology and the origins and evolution of parasitism itself are all underpinned by an understanding of phylogeny. The Evolution of Parasitism - A Phylogenetic Perspective aims to bring together a range of articles that exemplifies the phylogenetic approach as applied to various disciplines within parasitology and as applied by parasitologists. Unified by the use of phylogenies, this book tackles a wide variety of parasite-specific biological problems across a diverse range of taxa. Includes important contributions from leading minds in the field such as Serge Morand, Francisco Ayala and Mark Blaxter, among others Second in the ISI Parasitology List in 2002 with an Impact Factor of 4.818 Series encompasses over 35 years of parasitology coverage

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.

PARASCRIP PB Daniel R. Brooks,Deborah A. McLennan.1993-02-17 Douglas H. Erwin and V.A. Funk, series editors. This monograph series presents innovative studies in the field of comparative evolutionary biology, especially by authors introducing new ideas or expanding accepted views. Analyzing parasite evolutionary biology using modern comparative methods for the first time, Brooks and McLennan suggest that parasites are exemplary model systems for exploring the evolution of complex life cycles.

Evolutionary Strategies of Parasitic Insects and Mites Peter Price.2012-12-06 This volume contains the invited lectures presented in a symposium entitled Evolutionary strategies of parasitic insects and mites at the national meeting of the Entomological Society of America in Minneapolis, Minnesota, 2-5 December, 1974. The intent was to bring together biologists who have worked on arthropods that are either plant or animal parasites in order to foster consideration of general aspects of the parasitic way of life. There seems to be a deficiency of ecological and evolutionary concepts relating to parasitism, in contrast to the burgeoning literature on predation, and it appeared that an amalgamation of studies on plant and animal parasites might help development of some generalities. Since parasites are far more numerous than predators in the world fauna, or in any particular community, emphasis on their study is justified. I freely admit that parasitoids have been usefully regarded as predators by ecologists, and many concepts on predation have been derived from their study. Also, in whichever category one places the parasitoids, that is the one which contains the most species. However, from an evolutionary point of view they show many characteristics that must be regarded as those of a parasite. Notably, they are small, highly specific to their host, highly coevolved with it, as a result many species can coexist, and their adaptive radiation has produced the majority of the species diversity seen on Earth today.

Ecology and Evolution of Parasitism Frédéric Thomas,Jean-François Guégan,François Renaud.2008-12-11 Biologists are increasingly aware of the universal significance of parasites to the study of ecology and evolution where they have become a powerful model system. This book provides a summary of the issues involved as well as an overview of the possibilities offered by this research topic including the practical applications in disease prevention.

Evolutionary Parasitology Paul Schmid-Hempel.2021 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 inter-disciplinary 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.

Primate Parasite Ecology Michael A. Huffman,Colin A. Chapman.2009-02-19 Introduces methodology for studying host-parasite interactions, integrating laboratory methodology, field research, and theory.

PARASCRIP Daniel R. Brooks,Deborah A. McLennan.1993-02-17 Two themes recur in this guide to a language with rich potential for evolutionary studies. One is the focus on the parasite rather than the more commonly studied host; the second is the use of modern phylogenetic and historical ecological analysis, showing the fruitfulness of such an approach. The aim is to evaluate myths and misconceptions about parasites and their evolution and to demonstrate that parasite-host systems are excellent models for evolutionary studies and for use as biodiversity probes. Paper edition (unseen), \$25. Annotation copyright by Book News, Inc., Portland, OR

Fossil Parasites Tim Littlewood,Kenneth De Baets.2015-11-21 Fossil Parasites, the latest edition in the Advances in Parasitology series established in 1963, contains comprehensive and up-to-date reviews on all areas of interest in contemporary parasitology, including medical studies of parasites of major influence, such as plasmodium falciparum and trypanosomes. The series also contains reviews of more traditional areas, such as zoology, taxonomy, and life history, which help to shape current thinking and applications. Parasitism is a dominant life history strategy and we know it has existed for millions of years. Detecting parasitism in the fossil record is problematic because we rarely see direct evidence and usually must rely on indirect evidence to infer its existence. This unique volume takes a broad and systematic view of direct and indirect evidence for parasitism in the fossil record. Expert contributors providing timely reviews of different aspects of palaeoparasitology Comprehensive treatments of taxonomic groups never before summarized Comprehensive coverage of important historical and recent advances in the field New avenues for research are explored and suggested

Host-parasite Evolution Dale H. Clayton,Janice Moore.1997-01 Current interest in host-parasite interactions is spread across many disciplines - immunology, evolution, ecology, endocrinology, sexual selection, behaviour, and organismal parasitology. This is a question-oriented book with a solid organismal foundation that will help to bridge the gap between evolutionary ecologists and parasitologists. A range of experts have written chapters that review general concepts and provide a detailed survey of the parasites of a major group of hosts; much evolutionary work on host-parasite interactions has focussed on birds, therefore the emphasis of the book is on avian systems. The book concludes with extensive reviews of methods used to study bird parasites, and will be an invaluable tool for anyone interested in understanding host-parasite interactions, particularly from an evolutionary perspective.

Micromammals and Macroparasites S. Morand,B.R. Krasnov,R. Poulin.2007-01-27 This book provides a comprehensive survey of the diversity and biology of metazoan parasites affecting small mammals, of their impact on host individuals and populations, and of the management implications of these parasites for conservation biology and human welfare. Designed for a broad, multidisciplinary audience, the book is an essential resource for researchers, students, and practitioners alike.

The Biogeography of Host-Parasite Interactions Serge Morand,Boris R. Krasnov.2010-07 This edited volume demonstrates how the latest developments in biogeography (for example in phylogenetics, macroecology, and

geographic information systems) can be applied to studies in the evolutionary ecology of host-parasite interactions in order to integrate spatial patterns with ecological theory.

Evolutionary Ecology of Parasites Robert Poulin.1998 Parasites evolve under selective pressures which are different from those acting on free-living organisms. The aim of this textbook is to present these pressures and to show how they have shaped the ecology of parasites over evolutionary time. Broad theoretical concepts are explained simply and clearly and illustrated throughout with example organisms. The book will be an invaluable text for advanced undergraduate biologists who are studying evolutionary biology, ecology, population biology, parasitology and evolutionary ecology. It will also prove to be a valuable reference to postgraduate students and researchers in the same fields.

Parasitism Timothy M. Goater,Cameron P. Goater,Gerald W. Esch.2014 Synthesizes the latest developments in the ecology and evolution of animal parasites for a new generation of parasitologists.

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