

Ecology of marine parasites (Australian ecology series)

Rohde, Klaus

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Ecology Of Marine Parasites

**Donald C. Behringer, Brian R.
Silliman, Kevin D. Lafferty**



Ecology Of Marine Parasites:

Ecology of Marine Parasites Klaus Rohde, 1982 **Marine Parasitology** Klaus Rohde, 2005-09-13 This comprehensive authoritative and up to date work provides the definitive overview of marine parasites worldwide It is an invaluable reference for students and researchers in parasitology and marine biology and will also be of interest to ecologists aquaculturists and invertebrate biologists Initial chapters review the diversity and basic biology of the different groups of marine parasites discussing their morphology life cycles infection mechanisms and effects on hosts The ecology and importance of marine parasites are discussed in the second part of the book where contributions investigate behavioural and ecological aspects of parasitism and discuss the evolution and zoogeography of marine parasites In addition the economic environmental and medical significance of these organisms is outlined particularly their importance in aquaculture and their effects on marine mammals and birds Written by an international team of contributors the emphasis is on a thorough grounding in marine parasitology combined with reviews of novel concepts and cutting edge research **Ecology of Marine Parasites** Klaus Rohde, 1993 The first edition of this book published in 1982 by the University of Queensland Press established itself as the main introductory textbook on marine parasitology It provided an overview of the types of marine parasites and their hosts hyperparasitism adaptations host parasite interactions ecological niches geographical distribution as well as economic and medical aspects of marine parasites The second edition has been reviewed to take account of recent advances and includes an additional chapter on the structure of marine parasite communities There are also new sections on pollution translocations of hosts and parasites and on the effects of parasites on the aquaculture of marine fish molluscs and crustacea The chapters covering ecological zoogeographical and economic aspects have also been significantly changed Aimed particularly at students and research workers in parasitology the book will also be of interest to ecologists biologists concerned with zoogeographical problems and to fish and fisheries biologists Evolutionary Ecology of Parasites Robert Poulin, 2011-06-27 Parasites have evolved independently in numerous animal lineages and they now make up a considerable proportion of the biodiversity of life Not only do they impact humans and other animals in fundamental ways but in recent years they have become a powerful model system for the study of ecology and evolution with practical applications in disease prevention Here in a thoroughly revised and updated edition of his influential earlier work Robert Poulin provides an evolutionary ecologist's view of the biology of parasites He sets forth a comprehensive synthesis of parasite evolutionary ecology integrating information across scales from the features of individual parasites to the dynamics of parasite populations and the structuring of parasite communities *Evolutionary Ecology of Parasites* presents an evolutionary framework for the study of parasite biology combining theory with empirical examples for a broader understanding of why parasites are as they are and do what they do An up to date synthesis of the field the book is an ideal teaching tool for advanced courses on the subject Pointing toward promising directions and setting a research agenda it will also be an

invaluable reference for researchers who seek to extend our knowledge of parasite ecology and evolution

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

Marine Disease Ecology Donald C. Behringer, Brian R. Silliman, Kevin D. Lafferty, 2020-01-30 Whether through loss of habitat or cascading community effects diseases can shape the very nature of the marine environment Despite their significant impacts studies of marine diseases have tended to lag behind their terrestrial equivalents particularly with regards to their ecological effects However in recent decades global research focused on marine disease ecology has expanded at an accelerating rate This is due in part to increases in disease emergence across many taxa but can also be attributed to a broader realization that the parasites responsible for disease are themselves important members of marine communities Understanding their ecological relationships with the environment and their hosts is critical to understanding conserving and managing natural and exploited populations communities and ecosystems Courses on marine disease ecology are now starting to emerge and this first textbook in the field will be ideally placed to serve them Marine Disease Ecology is suitable for graduate students and researchers in the fields of marine disease ecology aquaculture fisheries veterinary science evolution and conservation It will also be of relevance and use to a broader interdisciplinary audience of government agencies NGOs and marine resource managers

Parasites and Behaviour M. V. K. Sukhdeo, Leslie H. Chappell, 1994 This volume of Parasitology takes an in depth look at parasitic behaviour

Ecology of the Acanthocephala C. R. Kennedy, 2006-09-07 Acanthocephalans or spiny headed worms are endoparasites found in almost all marine freshwater and terrestrial systems They infect a huge range of definitive and intermediate hosts during their life cycles including both vertebrates and arthropods This volume first published in 2006 examines the distribution and abundance of the Acanthocephala and uses this ecological information to reveal the group s enormous survival success It discusses how the acanthocephalans have evolved differently to all other groups of parasites and represent a distinct and alternative pathway of parasite evolution and host parasite interactions Written for graduate students and researchers in parasitology ecology and zoology or anyone interested in reading about parasite ecology and evolution

Nonequilibrium Ecology Klaus Rohde, 2006-01-19 Ecology has long been shaped by ideas that stress the sharing of resources and the competition for those resources and by the assumption that populations and communities typically exist under equilibrium conditions in habitats saturated with both individuals and species However much evidence contradicts these assumptions and it is likely that nonequilibrium is much more widespread than might be expected This book is unique in focusing on nonequilibrium aspects of ecology providing evidence for nonequilibrium and equilibrium in populations and metapopulations in extant communities and in ecological systems over evolutionary time including nonequilibrium due to recent and present

mass extinctions The assumption that competition is of overriding importance is central to equilibrium ecology and much space is devoted to its discussion As communities of some taxa appear to be shaped more by competition than others an attempt is made to find an explanation for these differences Parasites in Marine Systems R. Poulin, Robert Poulin, Leslie H. Chappell, 2002 Synthesises the available key information on the biology of marine parasites and their hosts *Current Concepts in Parasitology* Ronald C. Ko, 1989-08-01 There are twelve chapters in this book The subjects discussed include the mechanisms of eosinophilia in parasitic infections piscine immunity to protozoan diseases survival strategies of trichuroid nematodes sero diagnosis purine and pyrimidine biosynthesis metabolism as targets for antiparasitic chemotherapy ecology of marine parasites transmission patterns and evolution of nematodes as well as coevolution **Treatise on Marine Ecology and Paleoecology** Joel W. Iledgpeth and Harry S. Ladd, 1957 *Aquatic Parasitology: Ecological and Environmental Concepts and Implications of Marine and Freshwater Parasites* Nico J. Smit, Bernd Sures, 2025-06-16 This open access volume is the first to provide a comprehensive overview of the ecological and environmental characteristics of marine and freshwater parasites In three clearly organized sections world leading authors present the current state of our knowledge as well as the future trends for their respective fields in aquatic parasitology First the basic life cycle strategies of the various major groups of aquatic parasites are presented including protists myxozoa aquatic fungi helminths and arthropods Subsequent chapters explore the ecological implications of aquatic parasites covering topics such as biodiversity evolution community structures behavior and conservation to name a few In addition important developments in research are presented such as the use of different molecular tools and eDNA in aquatic parasitology The final section is devoted to the new field of environmental parasitology where readers will find contributions on biological markers invasive species and bioindicators of environmental pollution among others Due attention is also given to zoonoses aquaculture and the effects of climate change on aquatic parasites All chapters include original high quality illustrations and never before seen photographs which complement the diverse aspects of aquatic parasitology described Thus this book is a must for every parasitologist and ecologist Global Diversity and Ecological Function of Parasites of Euphausiids Jaime Gómez-Gutiérrez, So Kawaguchi, José Raúl Morales-Ávila, 2017-06-01 This volume critically reviews all previously published work of parasites that interact with krill order Euphausiacea updating misconceptions and summarizing the diversity of epibionts ectoparasites mesoparasites and endoparasites that interact with these crustaceans As far as we know there is a lack of books about parasites of marine crustaceans not targeted to fisheries and aquaculture Thus this would be the most complete and integrative monograph of parasites of marine zooplankton and micro nektonic organisms worldwide Krill form immense aggregations and serve as food for multiple planktonic and nektonic predators playing a crucial role in pelagic food web Besides several species are also used for human consumption For these reasons there is a growing concern about the health issues that krill parasites may impose on other species including us This book provides a comprehensive review of parasites of a crustacean order that can

extrapolate to potential parasites in other crustacean taxa worldwide *The Balance of Nature and Human Impact* Klaus Rohde, 2013-02-14 Explores equilibrium and non equilibrium in undisturbed and disturbed ecological systems examining how human activities affect the balance imbalance of nature **Ecology and Evolution of Marine Parasites and Diseases** David W. Thieltges, K. Mathias Wegner, 2016 Parasite Diversity and Diversification Serge Morand, Boris R. Krasnov, D. Timothy J. Littlewood, 2015-02-26 By joining phylogenetics and evolutionary ecology this book explores the patterns of parasite diversity while revealing diversification processes A Functional Biology of Parasitism G.W. Esch, J.C. Fernandez, 2013-03-07 Series Editor Peter Calow Department of Zoology University of Sheffield England The main aim of this series will be to illustrate and to explain the way organisms make a living in nature At the heart of this their functional biology is the way organisms acquire and then make use of resources in metabolism movement growth reproduction and so on These processes will form the fundamental framework of all the books in the series Each book will concentrate on a particular taxon species family class or even phylum and will bring together information on the form physiology ecology and evolutionary biology of the group The aim will be not only to describe how organisms work but also to consider why they have come to work in that way By concentration on taxa which are well known it is hoped that the series will not only illustrate the success of selection but also show the constraints imposed upon it by the physiological morphological and developmental limitations of the groups Another important feature of the series will be its organismic orientation Each book will emphasize the importance of functional integration in the day to day lives and the evolution of organisms This is crucial since though it may be true that organisms can be considered as collections of gene determined traits they nevertheless interact with their environment as integrated wholes and it is in this context that individual traits have been subjected to natural selection and have evolved **Parasitism and Ecosystems** Frédéric Thomas, François Renaud, Jean-François Guegan, 2005-01-06 For several years there has been a growing interest in understanding the dynamics of parasites in ecosystems as well as the diversity of ways in which they influence ecosystem functioning through their effects on host populations and communities Ecologists epidemiologists evolutionary biologists and other scientists are increasingly coming to realise that parasites must be taken into account when studying ecosystems Parasitism and Ecosystems summarizes current knowledge on this topic providing a comprehensive overview for researchers and students It represents the first synthesis of both the roles and the consequences of pathogens in ecosystems utilising well documented case studies to illustrate the main issues as well as identifying prospects for future research **Parasites and Biological Invasions** Jamie Bojko, Alison M. Dunn, April M.H. Blakeslee, 2023-10-31 Biological invasions the introduction establishment and spread of invasive alien species are complex global phenomena that can cause significant environmental ecological and economic harm Along with the direct effects of an invasive host organism there is the additional threat of co introduced pathogenic and parasitic species Co introduced parasites can affect the success of the invasive organism but can also go on to infect hosts in

the new range resulting in novel ecological interactions and complex impacts These Invasive Parasites can have profound impacts on the success of a biological invasion and can pose a significant risk to wildlife in addition to organisms cultured for agriculture and aquaculture Authored by leading researchers in the discipline this new book is a useful tool for helping invasion researchers incorporate disease data into their invasion models as well a vital resource for researchers policy makers and environmental managers that are more generally interested in the myriad consequences of species invasions

Ignite the flame of optimism with is motivational masterpiece, Find Positivity in **Ecology Of Marine Parasites** . In a downloadable PDF format (*), this ebook is a beacon of encouragement. Download now and let the words propel you towards a brighter, more motivated tomorrow.

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