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Parasitism: The Diversity and Ecology of Animal Parasites ...

Parasitism. The Diversity and Ecology of Animal Parasites, 2nd edn. By Timothy M. Goater , Cameron P. Goater and Gerald W. Esch , editors, p. 497. Cambridge University Press, UK, 2014. ISBN: 978-0 ...

(PDF) Parasitism: The Diversity and Ecology of Animal ...

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The second edition of Parasitism by Goater et al. (2014) comprises 17 chapters, eight of which are new, but with continuing emphasis on biodiversity, ecology, and evolution of animal parasites. The book has been completely revised to take account of the extensive advances and latest developments in these fields to meet the requirements of a new generation of students, whether in biology, zoology, ecology, evolution, parasitology, immunology or the environmental, medical, and veterinary sciences.

Parasitism: The Diversity and Ecology of Animal Parasites ...

Reflecting the enormous advances made in the field over the past ten years, Parasitism: The Diversity and Ecology of Animal Parasites synthesizes the latest developments in the ecology and evolution of animal parasites against a backdrop of parallel advances in parasite systematics, biodiversity and life cycles. This second edition has been thoroughly revised to meet the needs of a new generation of parasitology students.

Parasitism: The Diversity and Ecology of Animal Parasites ...

Biodiversity affects ecosystem functioning. Biodiversity may decrease or increase parasitism. Parasites impair individual hosts and affect their role in the ecosystem. Parasitism, in common with competition, facilitation, and predation, could regulate BD-EF relationships.

Parasitism and the Biodiversity-Functioning Relationship ...

Parasite Diversity Parasitism has evolved at least 223 times in 15 of 35 recognized animal phyla (Weinstein and Kuris, 2016). It is believed that parasitism evolved through a variety of opportunistic circumstances: from using larger animals

for food, shelter, increasing dispersal potential, and maintaining more consistent environmental conditions by living in close proximity (Poulin and Morand, 2004).

Parasitism - an overview | ScienceDirect Topics

This review attempted to give some hypothesis-based explanations of parasite diversity and how this parasite diversity impacts the evolutionary ecology of their hosts. Although the mechanisms of parasite diversification are far from being elucidated, we have emphasized the main importance of both host density and host defence using a simple framework based on epidemiological and ecological theories.

(macro-) Evolutionary ecology of parasite diversity: From ...

More information: DS Johnson et al. A climate migrant escapes its parasites, *Marine Ecology Progress Series* (2020).DOI: 10.3354/meps13278. David Samuel Johnson et al. The fiddler crab, *Minuca ...*

Study shows climate change can help crab escape its parasites

Parasitism: The Diversity and Ecology of Animal Parasites Albert O. Bush , Jacqueline C. Fern á ndez , Gerald W. Esch , J. Richard Seed Cambridge University Press , Mar 22, 2001 - Science - 576 pages

Parasitism: The Diversity and Ecology of Animal Parasites ...

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Parasitism: The Diversity and Ecology of Animal Parasites ...

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"[It] offers a superbly presented synthesis of its twin central themes - the diversity of parasites and their ecology. The interdisciplinary approach considers the host-parasite relationship at all levels, from molecular, via whole organism, to entire communities." Andrew Taylor-Robinson, *The Biologist*

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The Diversity and Ecology of Animal Parasites S E C O N D E D I T I O N Reflecting the enormous advances made in the fi eld over the past 10 years, this text synthesizes the latest developments in the ecology and evolution of animal parasites against a backdrop

Parasitism: The Diversity and Ecology of Animal Parasites ...

Parasitism: The Diversity and Ecology of Animal Parasites: Goater, Timothy M., Goater, Cameron P., Esch, Gerald W.: Amazon.sg: Books

Synthesizes the latest developments in the ecology and evolution of animal parasites for a new generation of parasitologists.

Explains parasite biology as a branch of ecology - essential reading for zoology and ecology students.

Nearly all living organisms are exploited by some sort of parasite. But what are parasites? How many different types are there? What exactly is parasitism? In this undergraduate textbook parasitism is described as an ecological relationship. Ecology implies the study of the interaction between organisms and their environments and the fact that parasites' hosts are alive makes this concept even more exciting, combining traditionally disparate disciplines such as immunology and physiology with ecology and epidemiology! All the major groups of animal parasites are described, who they are, how they live, their biogeography, evolution, the influence they exert on their hosts' populations, their immunological, pathological, and biochemical implications. Written in an accessible style, the subject matter is brought to life with numerous illustrations and textboxes containing anecdotal, interesting, and supplementary material. Essential for all undergraduate students studying parasitology, *Parasitism: The Diversity and Ecology of Animal Parasites* will also be useful reading for graduates and researchers in zoology and ecology.

By joining phylogenetics and evolutionary ecology, this book explores the patterns of parasite diversity while revealing diversification processes.

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.

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.

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 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.

Parasites that manipulate the behaviour of their hosts represent striking examples of adaptation by natural selection. 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.

Concepts from evolution, ecology, parasitology, and immunology have informed a new synthesis of host-parasite interactions. The book builds on these established approaches whilst including some of the most successful interdisciplinary areas of modern biology - evolutionary epidemiology and ecological immunology.

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