

Host Parasite Evolution General Principles And Avian Models

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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.

Reflecting the enormous advances made in the field over the past ten years, this text 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, balancing traditional approaches in parasitology with modern studies in parasite ecology and evolution. The authors present basic ecological principles as a unifying framework to help students understand the complex phenomenon of parasitism, richly illustrated with over 250 figures. The text is accompanied by case study boxes designed to help students appreciate the complexity and diversity of parasites and the scientists who study them. This unique approach, presented clearly and with a minimum of jargon and mathematical detail, encourages students from diverse backgrounds to think generally and conceptually about parasites and parasitism.

Parasites experience two environments: one reflecting external conditions, the other created by the living host. The subjects of this volume are relevant to evolution, ecology, physiology, biochemistry, immunology, molecular biology, and phylogenetic analysis. Papers review familiar and unfamiliar extreme physical conditions, from low temperatures and desiccation to the powerful water currents faced by some fish parasites. The environment created by the host and parasite adaptation to host immunity is covered in several papers, including immune evasion, host switching, and the effect of parasites on the evolution of immunity.

Genetic trees, clades, host-parasite principles, animals review

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

A parasitology text for biology and/or zoology students at the undergraduate level. Emphasizes principles with related information on the biology, physiology, morphology, and ecology of the major parasites of humans and domestic animals. This is not a diagnostic manual for medical students.

a semiannual journal of research devoted to helminthology and all branches of parasitology

an overview of findings in the bird song system that have had a major impact on neuroscience research and have fundamentally altered our concepts of brain function the 32 papers constitute the proceedings of a conference on the behavioural neurobiology of bird song held in new york in 2002

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