

GROUP SELECTION IN

Predator-Prey Communities

MICHAEL E. GILPIN

MONOGRAPHS IN POPULATION BIOLOGY • 9

Group Selection In Predator Prey Communities Mpb 9 Monographs In Population Biology

Richard Bailey



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Group Selection in Predator-Prey Communities Michael E. Gilpin, 1975-01-01 **Geographical Genetics (MPB-38)**

Bryan K. Epperson, 2003-08-31 Population genetics has made great strides in applying statistical analysis and mathematical modeling to understand how genes mutate and spread through populations over time But real populations also live in space Streams mountains and other geographic features often divide populations limit migration or otherwise influence gene flow This book rigorously examines the processes that determine geographic patterns of genetic variation providing a comprehensive guide to their study and interpretation Geographical Genetics has a unique focus on the mathematical relationships of spatial statistical measures of patterns to stochastic processes It also develops the probability and distribution theory of various spatial statistics for analysis of population genetic data detailing exact methods for using various spatial features to make precise inferences about migration natural selection and other dynamic forces The book also reviews the experimental literature on the types of spatial patterns of genetic variation found within and among populations And it makes an unprecedented strong connection between observed measures of spatial patterns and those predicted theoretically Along the way it introduces readers to the mathematics of spatial statistics applications to specific population genetic systems and the relationship between the mathematics of space time processes and the formal theory of geographical genetics Written by a leading authority this is the first comprehensive treatment of geographical genetics It is a much needed guide to the theory techniques and applications of a field that will play an increasingly important role in population biology and ecology **Ecological Niches and Geographic Distributions (MPB-49)** A. Townsend Peterson, 2011-11-20

Terminology conceptual overview biogeography modeling *Self-Organization in Complex Ecosystems. (MPB-42)* Ricard V. Solé, Jordi Bascompte, 2006-03-26 Describing a theoretical view of ecosystems based on how they self organise to produce complex patterns this book focuses on very simple models that despite their simplicity encapsulate fundamental properties of how ecosystems work *The Publishers' Trade List Annual* , 1981 **Group Selection in Predator-prey Communities**

Predator-prey Communities Michael E. Gilpin, 1975 The Natural Selection of Populations and Communities David Sloan Wilson, 1980 **Predator-Prey Ecology** DENNIS L. BOUTIN MURRAY (DR STAN.), Stan Boutin, 2014-09-26

Predator-prey Communities , 1975 **Predator Ecology** John P. DeLong, 2021-09-15 Predator prey interactions are ubiquitous govern the flow of energy up trophic levels and strongly influence the structure of ecological systems They are typically quantified using the functional response the relationship between a predator s foraging rate and the availability of food As such the functional response is central to how all ecological communities function since all communities contain foragers and a principal driver of the abundance diversity and dynamics of ecological communities The functional response also reflects all the behaviors traits and strategies that predators use to hunt prey and that prey use to evade predation It is thus both a clear reflection of past evolution including predator prey arms races and a major force driving the future

evolution of both predator and prey Despite their importance there have been remarkably few attempts to synthesize or even briefly review functional responses This novel and accessible book fills this gap clearly demonstrating their crucial role as the link between individuals evolution and community properties representing a highly integrated and measurable aspect of ecological function It provides a clear entry point for students a refresher for more advanced researchers and a motivator for future research Predator Ecology is an advanced textbook suitable for graduate students and researchers in ecology and evolutionary biology seeking a broad up to date and authoritative coverage of the field It will also be of relevance and use to mathematical ecologists wildlife biologists and anyone interested in predator prey interactions *Predation* R. J.

Taylor,1984-09-06 *Natural Selection in the Wild* John A. Endler,1986 Natural selection is an immense and important subject yet there have been few attempts to summarize its effects on natural populations and fewer still which discuss the problems of working with natural selection in the wild These are the purposes of John Endler s book In it he discusses the methods and problems involved in the demonstration and measurement of natural selection presents the critical evidence for its existence and places it in an evolutionary perspective Professor Endler finds that there are a remarkable number of direct demonstrations of selection in a wide variety of animals and plants The distribution of observed magnitudes of selection in natural populations is surprisingly broad and it overlaps extensively the range of values found in artificial selection He argues that the common assumption that selection is usually weak in natural populations is no longer tenable but that natural selection is only one component of the process of evolution natural selection can explain the change of frequencies of variants but not their origins Predator Ecology John Paul DeLong,2021 Predator prey interactions are ubiquitous govern the flow of energy up trophic levels and strongly influence the structure of ecological systems They are typically quantified using the functional response the relationship between a predator s foraging rate and the availability of food As such the functional response is central to how all ecological communities function since all communities contain foragers and a principal driver of the abundance diversity and dynamics of ecological communities The functional response also reflects all the behaviors traits and strategies that predators use to hunt prey and that prey use to evade predation It is thus both a clear reflection of past evolution including predator prey arms races and a major force driving the future evolution of both predator and prey **Natural Enemies** M. J. ed CRAWLEY,1992

Whispering the Secrets of Language: An Psychological Journey through **Group Selection In Predator Prey Communities Mpb 9 Monographs In Population Biology**

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