

Life Sciences Research Report 25

Population Biology of Infectious Diseases

R. M. Anderson and R. M. May
Editors

Dahlem Konferenzen



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Population Biology Of Infectious Diseases

J. J. Burdon



Population Biology Of Infectious Diseases:

Population Biology of Infectious Diseases R.M. Anderson, R.M. May, 2012-12-06 for the design of control programs in extreme cases as discussed below by Fine et al this volume and elsewhere it can happen that immunization programs although they protect vaccinated individuals actually increase the overall incidence of a particular disease The possibility that many nonhuman animal populations may be regulated by parasitic infections is another topic where it may be argued that conventional disciplinary boundaries have retarded investigation While much ecological research has been devoted to exploring the extent to which competition or predator prey interactions may regulate natural populations or set their patterns of geographical distribution few substantial studies have considered the possibility that infectious diseases may serve as regulatory agents 1 8 On the other hand the many careful epidemiological studies of the transmission and maintenance of parasitic infections in human and other animal populations usually assume the host population density to be set by other considerations and not dynamically engaged with the disease see for example 1 2 With all these considerations in mind the Dahlem Workshop from which this book derives aimed to weave strands together testing theoretical analysis against empirical facts and patterns and identifying outstanding problems in pursuit of a better understanding of the overall population biology of parasitic infections For the purpose of the workshop the term parasite was defined widely to include viruses bacteria protozoans fungi and helminths

Population Biology of Infectious Diseases Roy M. Anderson, Robert

McCredie May, 1982 *Population Biology of Infectious Diseases ; Report* R. M. May, 1982 **Population Biology of Infectious Diseases** R.M. Anderson, 1982-10 for the design of control programs in extreme cases as discussed below by Fine et al this volume and elsewhere it can happen that immunization programs although they protect vaccinated individuals actually increase the overall incidence of a particular disease The possibility that many nonhuman animal populations may be regulated by parasitic infections is another topic where it may be argued that conventional disciplinary boundaries have retarded investigation While much ecological research has been devoted to exploring the extent to which competition or predator prey interactions may regulate natural populations or set their patterns of geographical distribution few substantial studies have considered the possibility that infectious diseases may serve as regulatory agents 1 8 On the other hand the many careful epidemiological studies of the transmission and maintenance of parasitic infections in human and other animal populations usually assume the host population density to be set by other considerations and not dynamically engaged with the disease see for example 1 2 With all these considerations in mind the Dahlem Workshop from which this book derives aimed to weave strands together testing theoretical analysis against empirical facts and patterns and identifying outstanding problems in pursuit of a better understanding of the overall population biology of parasitic infections For the purpose of the workshop the term parasite was defined widely to include viruses bacteria protozoans fungi and helminths **Population**

Biology of Vector-Borne Diseases John M. Drake, Michael Bonsall, Michael Strand, 2020-12-30 Population Biology of Vector

Borne Diseases is the first comprehensive survey of this rapidly developing field. The chapter topics provide an up to date presentation of classical concepts, reviews of emerging trends, synthesis of existing knowledge and a prospective agenda for future research. The contributions offer authoritative and international perspectives from leading thinkers in the field. The dynamics of vector borne diseases are far more intrinsically ecological compared with their directly transmitted equivalents. The environmental dependence of ectotherm vectors means that vector borne pathogens are acutely sensitive to changing environmental conditions. Although perennially important vector borne diseases such as malaria and dengue have deeply informed our understanding of vector borne diseases, recent emerging viruses such as West Nile virus, Chikungunya virus and Zika virus have generated new scientific questions and practical problems. The study of vector borne disease has been a particularly rich source of ecological questions while ecological theory has provided the conceptual tools for thinking about their evolution, transmission and spatial extent. *Population Biology of Vector Borne Diseases* is an advanced textbook suitable for graduate level students taking courses in vector biology, population ecology, evolutionary ecology, disease ecology, medical entomology, viral ecology, evolution and parasitology as well as providing a key reference for researchers across these fields.

Population Biology and Evolution K. Wöhrmann, V. Löschcke, 2012-12-06. This volume contains the papers presented at a symposium on population biology sponsored by the Deutsche Forschungsgemeinschaft. It was held at the guest house of the University of Tübingen at Oberjoch on May 15-19, 1983. Prior to this conference, a small group of European biologists had met in Berlin (June 1981) and Pavia (September 1982) to discuss research problems on the borderline between population genetics and evolutionary ecology. From the contributions and discussions at these meetings, it became evident that the unification of approaches to evolutionary problems in population genetics and evolutionary ecology has not yet been successful and requires further efforts. It was the consensus that a larger symposium with international participation would be helpful to confront and discuss the different approaches to population biology in order to assess where we are now and where we should be going. As a result, an organizational committee was formed: F. Christiansen, S. Jayakar, V. Loeschcke, W. Scharloo and K. Wöhrmann to identify topics that seemed at least to them to be fruitful in tackling problems in population biology. Consequently, a number of colleagues were asked to participate in the meeting. We have divided this book into chapters corresponding to the eight topics chosen. The volume begins with the relation between genotype and phenotype and is followed by a chapter on quantitative genetics and selection in natural populations. **Population Biology of**

Vector-Borne Diseases John M. Drake, Michael Bonsall, Michael R. Strand, Michael Strand, 2021. *Population Biology of Vector Borne Diseases* is the first comprehensive survey of this rapidly developing field. The chapter topics provide an up to date presentation of classical concepts, reviews of emerging trends, synthesis of existing knowledge and a prospective agenda for future research. The contributions offer authoritative and international perspectives from leading thinkers in the field. The dynamics of vector borne diseases are far more intrinsically ecological compared with their directly transmitted equivalents.

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Diseases and Plant Population Biology J. J. Burdon, 1987-05-07 **Mathematics in Population Biology** Horst R. Thieme, 2018-06-05

The formulation, analysis and re-evaluation of mathematical models in population biology has become a valuable source of insight to mathematicians and biologists alike. This book presents an overview and selected sample of these results and ideas organized by biological theme rather than mathematical concept, with an emphasis on helping the reader develop appropriate modeling skills through use of well-chosen and varied examples. Part I starts with unstructured single species population models, particularly in the framework of continuous time models, then adding the most rudimentary stage structure with variable stage duration. The theme of stage structure in an age-dependent context is developed in Part II, covering demographic concepts such as life expectation and variance of life length and their dynamic consequences. In Part III, the author considers the dynamic interplay of host and parasite populations, i.e. the epidemics and endemics of infectious diseases. The theme of stage structure continues here in the analysis of different stages of infection and of age structure that is instrumental in optimizing vaccination strategies. Each section concludes with exercises, some with solutions and suggestions for further study. The level of mathematics is relatively modest; a toolbox provides a summary of required results in differential equations, integration and integral equations. In addition, a selection of Maple worksheets is provided. The book provides an authoritative tour through a dazzling ensemble of topics and is both an ideal introduction to the subject and reference for researchers.

Population Biology H.I. Freedman, C. Strobeck, 2013-03-13

This volume contains the Proceedings of the International Conference in Population Biology held at The University of Alberta, Edmonton, Canada, from June 22 to June 30, 1982. The Conference was sponsored by The University of Alberta and The Canadian Applied Mathematics Society and overlapped with the summer meeting of CAMS. The main objectives of this Conference were to bring mathematicians and biologists together so that they may interact for their mutual benefit; to bring those researchers interested in modelling in ecology and those interested in modelling in genetics together; to bring in keynote speakers in the delineated areas; to have sessions of contributed papers; and to present the opportunity for researchers to conduct workshops. With the exception of the last one, the objectives were carried out. In order to lend some focus to the Conference, the

following themes were adopted models of species growth predator prey competition mutualism food webs dispersion age structure stability evolution of ecological parameters evolution of behaviour life history strategies group and social selection and evolution of genetic systems There were speakers invited and or contributed papers in each of these areas Talks were given on Tuesday June 22 to Friday June 25 and on Monday June 28 to Wednesday June 30 On each day there were several talks by the principal speakers as well as contributed sessions Altogether there were ninety one papers given of which twelve were by the principal speakers There were one hundred and twenty three registered participants from twelve different countries

Applied Population Biology S.K. Jain,L.W. Botsford,2007-07-23 An increasing variety of biological problems involving resource management conservation and environmental quality have been dealt with using the principles of population biology defined to include population dynamics genetics and certain aspects of community ecology There appears to be a mixed record of successes and failures and almost no critical synthesis or reviews that have attempted to discuss the reasons and ways in which population biology with its remarkable theoretical as well as experimental advances could find more useful application in agriculture forestry fishery medicine and resource and environmental management This book provides examples of state of the art applications by a distinguished group of researchers in several fields The diversity of topics richly illustrates the scientific and economic breadth of their discussions as well as epistemological and comparative analyses by the authors and editors Several principles and common themes are emphasized and both strengths and potential sources of uncertainty in applications are discussed This volume will hopefully stimulate new interdisciplinary avenues of problem solving research

Mathematical Models in Population Biology and Epidemiology Fred Brauer,Carlos Castillo-Chavez,2013-03-09 As the world population exceeds the six billion mark questions of population explosion of how many people the earth can support and under which conditions become pressing Some of the questions and challenges raised can be addressed through the use of mathematical models but not all The goal of this book is to search for a balance between simple and analyzable models and unsolvable models which are capable of addressing important questions such as these Part I focusses on single species simple models including those which have been used to predict the growth of human and animal population in the past Single population models are in some sense the building blocks of more realistic models the subject of Part II Their role is fundamental to the study of ecological and demographic processes including the role of population structure and spatial heterogeneity the subject of Part III This book which includes both examples and exercises will be useful to practitioners graduate students and scientists working in the field

The Population Dynamics of Infectious Diseases: Theory and Applications Roy M. Anderson,2013-11-22 Since the beginning of this century there has been a growing interest in the study of the epidemiology and population dynamics of infectious disease agents Mathematical and statistical methods have played an important role in the development of this field and a large and sophisticated literature exists which is concerned with the theory of epidemiological processes in populations and the dynamics of epidemic and

endemic disease phenomena Much of this literature is however rather formal and abstract in character and the field has tended to become rather detached from its empirical base Relatively little of the literature for example deals with the practical issues which are of major concern to public health workers Encouragingly in recent years there are signs of an increased awareness amongst theoreticians of the need to confront predictions with observed epidemiological trends and to pay close attention to the biological details of the interaction between host and disease agent This trend has in part been stimulated by the early work of Ross and Macdonald on the transmission dynamics of tropical parasitic infections but a further impetus has been the recent advances made by ecologists in blending theory and observation in the study of plant and animal populations

Mathematical Epidemiology of Infectious Diseases O. Diekmann, J. A. P. Heesterbeek, 2000-04-07
Mathematical Epidemiology of Infectious Diseases Model Building Analysis and Interpretation O Diekmann University of Utrecht The Netherlands J A P Heesterbeek Centre for Biometry Wageningen The Netherlands The mathematical modelling of epidemics in populations is a vast and important area of study It is about translating biological assumptions into mathematics about mathematical analysis aided by interpretation and about obtaining insight into epidemic phenomena when translating mathematical results back into population biology Model assumptions are formulated in terms of usually stochastic behaviour of individuals and then the resulting phenomena at the population level are unravelled Conceptual clarity is attained assumptions are stated clearly hidden working hypotheses are attained and mechanistic links between different observables are exposed Features Model construction analysis and interpretation receive detailed attention Uniquely covers both deterministic and stochastic viewpoints Examples of applications given throughout Extensive coverage of the latest research into the mathematical modelling of epidemics of infectious diseases Provides a solid foundation of modelling skills The reader will learn to translate model analyse and interpret with the help of the numerous exercises In literally working through this text the reader acquires modelling skills that are also valuable outside of epidemiology certainly within population dynamics but even beyond that In addition the reader receives training in mathematical argumentation The text is aimed at applied mathematicians with an interest in population biology and epidemiology at theoretical biologists and epidemiologists Previous exposure to epidemic concepts is not required as all background information is given The book is primarily aimed at self study and ideally suited for small discussion groups or for use as a course text

The Population Biology of Tuberculosis Christopher Dye, 2015-07-07 Despite decades of developments in immunization and drug therapy tuberculosis remains among the leading causes of human mortality and no country has successfully eradicated the disease Reenvisioning tuberculosis from the perspective of population biology this book examines why the disease is so persistent and what must be done to fight it Treating tuberculosis and its human hosts as dynamic interacting populations Christopher Dye seeks new answers to key questions by drawing on demography ecology epidemiology evolution and population genetics Dye uses simple mathematical models to investigate how cases and deaths

could be reduced and how interventions could lead to TB elimination Dye's analysis reveals a striking gap between the actual and potential impact of current interventions especially drug treatment and he suggests placing more emphasis on early case detection and the treatment of active or incipient tuberculosis He argues that the response to disappointingly slow rates of disease decline is not to abandon long established principles of chemotherapy but to implement them with greater vigor Summarizing epidemiological insights from population biology Dye stresses the need to take a more inclusive view of the factors that affect disease including characteristics of the pathogen individuals and populations health care systems and physical and social environments In broadening the horizons of TB research *The Population Biology of Tuberculosis* demonstrates what must be done to prevent control and defeat this global threat in the twenty first century

Introduction to Population Ecology Larry L. Rockwood, 2015-04-07 *Introduction to Population Ecology* 2nd Edition is a comprehensive textbook covering all aspects of population ecology It uses a wide variety of field and laboratory examples botanical to zoological from the tropics to the tundra to illustrate the fundamental laws of population ecology Controversies in population ecology are brought fully up to date in this edition with many brand new and revised examples and data Each chapter provides an overview of how population theory has developed followed by descriptions of laboratory and field studies that have been inspired by the theory Topics explored include single species population growth and self limitation life histories metapopulations and a wide range of interspecific interactions including competition mutualism parasite host predator prey and plant herbivore An additional final chapter new for the second edition considers multi trophic and other complex interactions among species Throughout the book the mathematics involved is explained with a step by step approach and graphs and other visual aids are used to present a clear illustration of how the models work Such features make this an accessible introduction to population ecology essential reading for undergraduate and graduate students taking courses in population ecology applied ecology conservation ecology and conservation biology including those with little mathematical experience

Population Viability in Plants Christy A. Brigham, Mark W. Schwartz, 2013-06-29 Providing a quantitative assessment of threatened plant populations that holds for varying management scenarios has become an essential part of conservation planning Here renowned plant ecologists provide information on major threats to plants when and where to conduct a plant viability assessment PVA what type of PVA to conduct what alternative options to PVA are available what information is required for which kind of viability assessment what attributes of the population in question should be considered and what the limits of the PVA would be As such this volume can be used as a training tool for the environmental manager or a teaching aid for reviewing the current state of knowledge on plant population viability

Population Ecology John H. Vandermeer, Deborah E. Goldberg, 2013-08-25 The essential introduction to population ecology now expanded and fully updated Ecology is capturing the popular imagination like never before with issues such as climate change species extinctions and habitat destruction becoming ever more prominent At the same time the science of ecology

has advanced dramatically growing in mathematical and theoretical sophistication Here two leading experts present the fundamental quantitative principles of ecology in an accessible yet rigorous way introducing students to the most basic of all ecological subjects the structure and dynamics of populations John Vandermeer and Deborah Goldberg show that populations are more than simply collections of individuals Complex variables such as distribution and territory for expanding groups come into play when mathematical models are applied Vandermeer and Goldberg build these models from the ground up from first principles using a broad range of empirical examples from animals and viruses to plants and humans They address a host of exciting topics along the way including age structured populations spatially distributed populations and metapopulations This second edition of Population Ecology is fully updated and expanded with additional exercises in virtually every chapter making it the most up to date and comprehensive textbook of its kind Provides an accessible mathematical foundation for the latest advances in ecology Features numerous exercises and examples throughout Introduces students to the key literature in the field The essential textbook for advanced undergraduates and graduate students An online illustration package is available to professors Symposium--the Role of Diseases in Marine Fisheries Management ,1986 **Infections, Chronic Disease, and the Epidemiological Transition** Alex Mercer,2014 In 1949 the U S National Cancer Institute NCI and the Canadian Department of National Health and Welfare DNHW commissioned a film eventually called Challenge Science Against Cancer as part of a major effort to recruit young scientists into cancer research Both organizations feared that poor recruitment would stifle the development of the field at a time when funding for research was growing dramatically The fear was that there would not be enough new young scientists to meet the demand and that the shortfall would undermine cancer research and the hopes invested in it Challenge aimed to persuade young scientists to think of cancer research as a career This book is the story of that forgotten film and what it tells us about mid twentieth century American and Canadian cancer research educational filmmaking and health education campaigns It explores why Canadian and American health agencies turned to film to address the problem of scientist recruitment how filmmakers turned such recruitment concerns into something they thought would work as a film and how information officers at the NCI and DNHW sought to shape the impact of Challenge by embedding it in a broader educational and propaganda program It is in short an account of the important but hitherto undocumented roles of filmmakers and information officers in the promotion of post Second World War cancer research

Uncover the mysteries within is enigmatic creation, Discover the Intrigue in **Population Biology Of Infectious Diseases** . This downloadable ebook, shrouded in suspense, is available in a PDF format (PDF Size: *). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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