

Infectious Disease and Host–Pathogen Evolution



Edited by
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Infectious Disease And Host Pathogen Evolution

Krishna R. Dronamraju, Paolo Arese



Infectious Disease And Host Pathogen Evolution:

Infectious Disease and Host-Pathogen Evolution Krishna R. Dronamraju, 2004-04-05 This book originally published in 2004 is concerned with the links between human evolution and infectious disease. It has long been recognised that an important factor in human evolution has been the struggle against infectious disease and more recently it was revealed that complex genetic polymorphisms are the direct result of that struggle. *Infectious Disease and Host-pathogen Evolution* Krishna R. Dronamraju, 2004 It has long been recognised that an important factor in human evolution has been the struggle against infectious disease and more recently it has been revealed that complex genetic polymorphisms are the direct result of that struggle. As molecular biological techniques become more sophisticated a number of breakthroughs in the area of host pathogen evolution have led to an increased interest in this field. From the historical beginnings of J B S Haldane's original hypothesis to current research this book strives to evaluate infectious diseases from an evolutionary perspective. It provides a survey of the latest information regarding host pathogen evolution related to major infectious diseases and parasitic infections including malaria, influenza and leishmaniasis. Written by leading authorities in the field and edited by a former pupil of Haldane, *Infectious Disease and Host Pathogen Evolution* will be a valuable reference for those working in related areas of microbiology, parasitology, immunology and infectious disease medicine as well as genetics, evolutionary biology and epidemiology. Evolution in Health and Disease Stephen C. Stearns, Jacob C. Koella, 2008 This work explores and analyses the ways in which our ancient genes contend with and influence modern human life. It offers coverage of the points of contact between evolutionary biology and medical science. **Infectious Disease Ecology of Wild Birds** Jennifer C. Owen, Dana M. Hawley, Kathryn P. Huyvaert, 2021-06-30 Birds are the most diverse group of land vertebrates and have evolved to exploit almost every terrestrial niche on earth. They also serve as a natural reservoir for an array of different pathogens that pose serious health risks to human and domestic animal populations including West Nile virus, highly pathogenic avian influenza viruses, Newcastle Disease virus and numerous enteric pathogens. Avian diseases are also critically important to the conservation of endemic bird species in many places around the world. This accessible textbook focuses on the dynamics of infectious diseases for wild avian hosts across every level of ecological hierarchy from the way pathogens interact with the physiology and behavior of individual hosts to the evolutionary and ecological dynamics of the host-parasite interactions occurring within populations up to the complex biotic and abiotic interactions occurring within biological communities and ecosystems. Parasite-bird interactions are also increasingly occurring in rapidly changing global environments thus their ecology is also changing and this shapes the complex ways by which parasites influence the inter-connected health of birds, humans and shared ecosystems. Given the key role of birds in ecological communities more broadly and as the primary host to so many zoonotic pathogens, an understanding of the ecological and evolutionary principles underlying the maintenance, amplification, transmission and dispersal of these infectious agents is crucial to understanding how to mitigate the negative

global impacts of the ever increasing number of emerging infectious diseases Although the topics and principles discussed in this book relate to birds they have a far wider relevance and can also be applied to non avian wildlife host pathogen systems The COVID 19 pandemic has shown that understanding of disease ecology in wild animal populations is paramount to global health Infectious Disease Ecology of Wild Birds is suitable for both senior undergraduate and graduate students taking courses in avian disease ecology ecoimmunology ecology and conservation It will also appeal to the many professional parasitologists ecoimmunologists ornithologists behavioural ecologists conservation biologists and wildlife biologists requiring a concise overview of the topic

Evolution in Action: Past, Present and Future Wolfgang Banzhaf, Betty H.C. Cheng, Kalyanmoy Deb, Kay E. Holekamp, Richard E. Lenski, Charles Ofria, Robert T. Pennock, William F. Punch, Danielle J. Whittaker, 2020-07-08 This edited research monograph brings together contributions from computer scientists biologists and engineers who are engaged with the study of evolution and how it may be applied to solve real world problems It also serves as a Festschrift dedicated to Erik D Goodman the founding director of the BEACON Center for the Study of Evolution in Action a pioneering NSF Science and Technology Center headquartered at Michigan State University The contributing authors are leading experts associated with the center and they serve in top research and industrial establishments across the US and worldwide Part I summarizes the history of the BEACON Center with refreshingly personal chapters that describe Erik's working and leadership style and others that discuss the development and successes of the center in the context of research funding projects and careers The chapters in Part II deal with the evolution of genomes and evolvability The contributions in Part III discuss the evolution of behavior and intelligence Those in Part IV concentrate on the evolution of communities and collective dynamics The chapters in Part V discuss selected evolutionary computing applications in domains such as arts and science automated program repair cybersecurity mechatronics and genomic prediction Part VI deals with evolution in the classroom using creativity in research and responsible conduct in research training The book concludes with a special chapter from Erik Goodman a short biography that concentrates on his personal positive influences and experiences throughout his long career in academia and industry

The Changing Face of Disease C.G. Nicholas Mascie-Taylor, Jean Peters, Stephen T. McGarvey, 2004-02-11 Disease is an ever present threat faced by all human societies Today this concept has become an influential area of study known as the global burden of disease which encompasses contemporary health concerns such as the economic costs of disease the societal impact of illness in developing nations and infectious diseases resulting from lifestyle

Malaria Krishna R. Dronamraju, Paolo Arese, 2006-06-26 This book was originally conceived at a conference at the University of Turin in Italy The conference was organized to examine the so called Malaria Hypothesis that is to say the higher fitness of the malarial heterozygotes in a malarial environment and to pay tribute to the proponent of that hypothesis J B S Haldane Contributors to this book examine certain genetic and evolutionary aspects of malaria which is a major killer of human populations especially in Africa and Asia There were attempts to discredit Haldane's contribution from

two directions a it has been suggested that the Malaria Hypothesis was known long before Haldane and that there was nothing original about his idea Lederberg 1999 and that b the hypothesis of heterozygote superiority was first suggested by the Italian biologist Giuseppe Montalenti who communicated his idea to Haldane Allison 2004 Surely both c not be right In fact the evidence presented in this book clearly indicates that both are wrong Haldane s malaria hypothesis has stimulated a great deal of research on the genetic evolutionary and epidemiological aspects of malaria d ing the last 50 years It has opened up a whole new chapter in the study of infectious diseases It deserves serious consideration For helpful discussions we thank Lucio Luzzatto Alberto Piazza Guido Modiano and David Roberts

Disease Evolution Zhilan Feng, Ulf Dieckmann, Simon A. Levin, Infectious diseases are continuing to threaten humankind While some diseases have been controlled new diseases are constantly appearing Others are now reappearing in forms that are resistant to drug treatments A capacity for continual re adaptation furnishes pathogens with the power to escape our control efforts through evolution This makes it imperative to understand the complex selection pressures that are shaping and reshaping diseases Modern models of evolutionary epidemiology provide powerful tools for creating expressing and testing such understanding Bringing together international leaders in the field this volume offers a panoramic tour of topical developments in understanding the mechanisms of disease evolution The volume s first part elucidates the general concepts underlying models of disease evolution Methodological challenges addressed include those posed by spatial structure stochastic dynamics disease phases and classes single and multi drug resistance the heterogeneity of host populations and tissues and the intricate coupling of disease evolution with between host and within host dynamics The book s second part shows how these methods are utilized for investigating the dynamics and evolution of specific diseases including HIV AIDS tuberculosis SARS malaria and human rhinovirus infections This volume is particularly suited for introducing young scientists and established researchers with backgrounds in mathematics computer science or biology to the current techniques and challenges of mathematical evolutionary epidemiology

Cognition-Based Evolution William B. Miller, 2023-06-23 Cognition Based Evolution is the first comprehensive alternative to 20th century Neodarwinism proposing a radical 21st century evolutionary framework with a novel point of origination all cells are intelligent and must measure uncertain environmental information to sustain themselves In Cognition Based Evolution life is defined by cognition From this differential stance evolutionary biology transforms into the science of why how what and with whom cells measure and communicate under stressful environmental conditions Life s context is uncertain environmental information communication is its means and genes are its tools Evolution is its yield as continuous non random self referential cellular problem solving

Popularizing Science Krishna R. Dronamraju, 2017 J B S Haldane 1892 1964 is widely appreciated as one of the greatest and most influential British scientists of the 20th century making significant contributions to genetics physiology biochemistry biometry cosmology and other sciences More remarkable then is the fact that Haldane had no formal qualification in science He made frequent appearances

in the media making pronouncements on a variety of poignant topics including mining disasters meteorites politics and the economy and was a popular scientific essay writer Haldane also was famed for conducting painful experiments on himself including several instances in which he permanently injured himself A staunch Marxist and convert to Hinduism Haldane lived a diverse lively and interesting life that is still revered by today's science community A biography of Haldane has not been attempted since 1968 and that book provided an incomplete account of the man's scientific achievement The Life and Works of J B S Haldane serves to fix this glaring omission providing a complete biographical sketch written by Krishna Dronamraju one of the last living men to have worked personally with Haldane A new genre of biographies of 20th century scientists has come into being and thus far works have been written about men like Einstein Oppenheimer Bernal Galton and many more the inclusion of Haldane within this genre is an absolute necessity Dronamraju evaluates Haldane's social and political background as well as his scientific creativity and accomplishments Haldane embodies a generation of intellectuals who believed and promoted knowledge for its own sake and that spirit of scientific curiosity and passion is captured in this biography

A Companion to Biological Anthropology Clark Spencer Larsen, 2010-02-22 An extensive overview of the rapidly growing field of biological anthropology chapters are written by leading scholars who have themselves played a major role in shaping the direction and scope of the discipline Extensive overview of the rapidly growing field of biological anthropology Larsen has created a who's who of biological anthropology with contributions from the leading authorities in the field Contributing authors have played a major role in shaping the direction and scope of the topics they write about Offers discussions of current issues controversies and future directions within the area Presents coverage of the many recent innovations and discoveries that are transforming the subject

Human Evolutionary Biology Michael P. Muehlenbein, 2010-07-29 A wide ranging and inclusive text focusing on topics in human evolution and the understanding of modern human variation and adaptability

Evolution and Medicine Robert Perlman, 2013-05-30 Evolution and Medicine provides an accessible introduction to the new field of evolutionary medicine Evolutionary concepts help explain why we remain vulnerable to disease how pathogens and cancer cells evolve and how the diseases that affected our evolutionary ancestors have shaped our biology The book interweaves the presentation of evolutionary principles with examples that illustrate how an evolutionary perspective enhances our understanding of disease It discusses the theory of evolution by natural selection the genetic basis of evolutionary change evolutionary life history theory and host pathogen coevolution and uses these concepts to provide new insights into diseases such as cystic fibrosis cancer sexually transmitted diseases and malaria incorporating the latest research in rapidly developing fields such as epigenetics and the study of the human microbiome The book concludes with a discussion of the ways in which recent culturally constructed changes in the human environment are increasing the prevalence of man made diseases such as diabetes and cardiovascular diseases and are exacerbating socioeconomic disparities in health Just as evolutionary biology is concerned with populations and with changes

in populations over time evolutionary medicine is concerned with the health of populations Evolution and Medicine emphasizes the role of demographic processes in evolution and disease and stresses the importance of improving population health as a strategy for improving the health of individuals This accessible text is written primarily for physicians biomedical scientists and both premedical and medical students and will appeal to all readers with a background or interest in medicine

Host Adaptation, Virulence, and Evolution Javid Ahmad Parray,Niraj Singh,Wen-Jun Li,2025-02-24 Microbial Genomics Host Adaptation Virulence and Evolution covers different aspects of microbial genomics metagenomics and functional studies of microbes that have provided a significant understanding of microbial host interactions virulence function host adaptation mechanisms including microbial evolution Microbial Genomics Host Adaptation virulence and Evolution is a comprehensive source on the latest updates and applications of microbial genomics information to understand the plant microbe interaction host adaptation virulence nature of the infectious pathogen microbial evolution host pathogen interactions contribute to shaping the genetic diversity of both organisms Sections include an introduction to Microbial Genomics followed by sections on Plant Microbiome Genome Editing Prospecting and Approaches Microbial virulanse and disease incidence The final section of the book covers Microbial Genomics and evolutionary concepts Microbial Genomics Host Adaptation virulence and Evolution is a valuable resource for faculty members researchers and undergraduate and postgraduate students at universities medical research labs industries and government agencies that are interested in the microbial science specific to the microbial genome virulence function of pathogenic microbes host adaptation evolution of microbes and all other disciplines related to molecular microbiology Presents the latest developments and progress on microbial genome and metagenome research and findings Assesses the advancements in the study of microbial virulence gene function adaptation and infectious pathogen evolution Provides insights about the progress and prospect of microbial genome editing

Introduction to Biological Anthropology EduGorilla Prep Experts,2024-10-30 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Health and Lifestyle Change Rebecca Huss-Ashmore,Joan Schall,Mary Hediger,1992-06-29 The health impacts of changing behavior and lifestyle in a range of prehistoric historic and extant populations are examined in this volume Of particular interest to the authors is the identification of issues that link past and present and the ability of research on disease in the past to shed light on modern health problems MASCA Vol 9

On Human Nature Michel Tibayrenc,Francisco J. Ayala,2016-09-12 On Human Nature Biology Psychology Ethics Politics and Religion covers the present state of knowledge on human diversity and its adaptative significance through a broad and eclectic selection of representative chapters This transdisciplinary work brings together specialists from various fields who rarely interact including geneticists evolutionists physicians ethologists psychoanalysts

anthropologists sociologists theologians historians linguists and philosophers Genomic diversity is covered in several chapters dealing with biology including the differences in men and apes and the genetic diversity of mankind Top specialists known for their open mind and broad knowledge have been carefully selected to cover each topic The book is therefore at the crossroads between biology and human sciences going beyond classical science in the Popperian sense The book is accessible not only to specialists but also to students professors and the educated public Glossaries of specialized terms and general public references help nonspecialists understand complex notions with contributions avoiding technical jargon Provides greater understanding of diversity and population structure and history with crucial foundational knowledge needed to conduct research in a variety of fields such as genetics and disease Includes three robust sections on biological psychological and ethical aspects with cross fertilization and reciprocal references between the three sections Contains contributions by leading experts in their respective fields working under the guidance of internationally recognized and highly respected editors

Future Humans Scott Solomon, 2016-10-25 An evolutionary biologist provides surprising insights into the changing nature of Homo sapiens in this important and an entertaining read Choice In Future Humans evolutionary biologist Scott Solomon draws on recent discoveries to examine the future evolution of our species Combining knowledge of our past with current trends Solomon offers convincing evidence that evolutionary forces are still affecting us today But how will modernization including longer lifespans changing diets global travel and widespread use of medicine and contraceptives affect our evolutionary future Solomon presents an entertaining and accessible review of the latest research on human evolution in modern times drawing on fields from genomics to medicine and the study of our microbiome Drawing together topics ranging from the rise of online dating and Cesarean sections to the spread of diseases such as HIV and Ebola Solomon suggests that we are entering a new phase in human evolutionary history one that makes the future less predictable and more interesting than ever before

The Fungal Kingdom Joseph Heitman, Barbara J. Howlett, Pedro W. Crous, Eva H. Stukenbrock, Timothy Yong James, Neil A. R. Gow, 2017-10-02 Fungi research and knowledge grew rapidly following recent advances in genetics and genomics This book synthesizes new knowledge with existing information to stimulate new scientific questions and propel fungal scientists on to the next stages of research This book is a comprehensive guide on fungi environmental sensing genetics genomics interactions with microbes plants insects and humans technological applications and natural product development

Microbial Evolution and Co-Adaptation Institute of Medicine, Board on Global Health, Forum on Microbial Threats, 2009-05-10 Dr Joshua Lederberg scientist Nobel laureate visionary thinker and friend of the Forum on Microbial Threats died on February 2 2008 It was in his honor that the Institute of Medicine's Forum on Microbial Threats convened a public workshop on May 20 21 2008 to examine Dr Lederberg's scientific and policy contributions to the marketplace of ideas in the life sciences medicine and public policy The resulting workshop summary Microbial Evolution and Co Adaptation demonstrates the extent to which conceptual and technological developments have

within a few short years advanced our collective understanding of the microbiome microbial genetics microbial communities and microbe host environment interactions

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