

## Evolution In Health And Disease

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**Evolution in Health and Disease** **Amazon.co.uk: Stearns** **---**

It takes a broad approach to the subject, discussing medically relevant research from evolutionary genetics, evolutionary ecology, evolutionary epidemiology, the evolution of aging, and any other biological disciplines where evolutionary approaches make important contributions. The medical conditions discussed include diabetes, obesity, cardiovascular disease, asthma, allergies and other autoimmune diseases, infectious diseases, emerging diseases, and aging.

**Evolution in Health and Disease—Oxford Scholarship**

A Darwinian perspective providing 'new insights into old questions', is important but will not provide a complete account of health and disease. The truth about perspectives is that there are ...

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**Evolution in Health and Disease eBook: Stephen C. Stearns** **---**

Evolution in Health and Disease, Second Edition. Stephen C. Stearns and Jacob C. Koella. Describes how evolutionary thinking gives insight into human health and disease; Explains why we grow old, and how to stay healthy as we age; Suggests exciting possibilities for future treatment and research; Includes contributions from the leading ...

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**Disease evolution-how new illnesses emerge when we change** **---**

Some of the human diseases that evolution may also provide an insight to include diabetes, breast cancer, obesity, hip fracture and depression. All of these are increasing in incidence in western societies. The gap between our ancient hunter-gather environments and present-day environments is thought by many to hold a clue to these problems.

**Evolution and disease—ScienceDirect**

Evolution in Health and Disease describes how evolutionary thinking gives valuable insights and fresh perspectives into human health and disease, establishing evolutionary biology as an essential complementary science for medicine. Integrating evolutionary thought into medical research and practice helps to explain the origins of many medical conditions, including diabetes, obesity, cardiovascular disease, asthma, allergies, other autoimmune diseases, and aging.

**Evolution in Health and Disease: 9780199207466: Medicine** **---**

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evolution in health and disease describes how evolutionary thinking gives valuable insights and fresh perspectives into human health and disease establishing evolutionary biology as an essential complementary science for medicine integrating evolutionary thought into medical research and practice helps to explain the origins of many medical conditions including diabetes obesity

**evolution in health and disease**

INTRODUCTION : #1 Evolution In Health - Free eBook Evolution In Health And Disease - Uploaded By Corin Tellado, evolution in health and disease describes how evolutionary thinking gives valuable insights and fresh perspectives into human health and disease establishing evolutionary biology as an essential complementary science for medicine evolution in health and disease

**Evolution In Health And Disease**

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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.

In this book the author, a Harvard evolutionary biologist presents an account of how the human body has evolved over millions of years, examining how an increasing disparity between the needs of Stone Age bodies and the realities of the modern world are fueling a paradox of greater longevity and chronic disease. It illuminates the major transformations that contributed key adaptations to the body: the rise of bipedalism; the shift to a non-fruit-based diet; the advent of hunting and gathering, leading to our superlative endurance athleticism; the development of a very large brain; and the incipience of cultural proficiencies. The author also elucidates how cultural evolution differs from biological evolution, and how our bodies were further transformed during the Agricultural and Industrial Revolutions. While these ongoing changes have brought about many benefits, they have also created conditions to which our bodies are not entirely adapted, the author argues, resulting in the growing incidence of obesity and new but avoidable diseases, such as type 2 diabetes. The author proposes that many of these chronic illnesses persist and in some cases are intensifying because of 'dys-evolution,' a pernicious dynamic whereby only the symptoms rather than the causes of these maladies are treated. And finally, he advocates the use of evolutionary information to help nudge, push, and sometimes even compel us to create a more salubrious environment. -- From publisher's web site.

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.

In recent years, the ecology and evolution of infectious diseases has been studied extensively and new approaches to the study of host-pathogen interactions continue to emerge. At the same time, pathogen control in low-income countries has tended to remain largely informed by classical epidemiology, where the objective is to treat as many people as possible, despite recent research suggesting new opportunities for improved disease control in the context of limited economic resources. The need to integrate the scientific developments in the ecology and evolution of infectious diseases with public health strategy in low-income countries is now more important than ever. This novel text uniquely incorporates the latest research in ecology and evolutionary biology into the discussion of public health issues in low-income countries. It brings together an international team of experts from both universities and health NGOs to provide an up-to-date, authoritative, and challenging review of the ecology and evolution of infectious diseases, focusing on low-income countries for effective public health applications and outcomes. It discusses a range of public health threats including malaria, TB, HIV, measles, Ebola, tuberculosis, influenza and meningitis among others.

Genetics and Evolution of Infectious Diseases, Second Edition, discusses the constantly evolving field of infectious diseases and their continued impact on the health of populations, especially in resource-limited areas of the world. Students in public health, biomedical professionals, clinicians, public health practitioners, and decisions-makers will find valuable information in this book that is relevant to the control and prevention of neglected and emerging worldwide diseases that are a major cause of global morbidity, disability, and mortality. Although substantial gains have been made in public health interventions for the treatment, prevention, and control of infectious diseases during the last century, in recent decades the world has witnessed a worldwide human immunodeficiency virus (HIV) pandemic, increasing antimicrobial resistance, and the emergence of many new bacterial, fungal, parasitic, and viral pathogens. The economic, social, and political burden of infectious diseases is most evident in developing countries which must confront the dual burden of death and disability due to infectious and chronic illnesses. Takes an integrated approach to infectious diseases Includes contributions from leading authorities Provides the latest developments in the field of infectious disease

Evolutionary science is critical to an understanding of integrated human biology and is increasingly recognised as a core discipline by medical and public health professionals. Advances in the field of genomics, epigenetics, developmental biology, and epidemiology have led to the growing realisation that incorporating evolutionary thinking is essential for medicine to achieve its full potential. This revised and updated second edition of the first comprehensive textbook of evolutionary medicine explains the principles of evolutionary biology from a medical perspective and focuses on how medicine and public health might utilise evolutionary thinking. It is written to be accessible to a broad range of readers, whether or not they have had formal exposure to evolutionary science. The general structure of the second edition remains unchanged, with the initial six chapters providing a summary of the evolutionary theory relevant to understanding human health and disease, using examples specifically relevant to medicine. The second part of the book describes the application of evolutionary principles to understanding particular aspects of human medicine: in addition to updated chapters on reproduction, metabolism, and behaviour, there is an expanded chapter on our coexistence with micro-organisms and an entirely new chapter on cancer. The two parts are bridged by a chapter that details pathways by which evolutionary processes affect disease risk and symptoms, and how hypotheses in evolutionary medicine can be tested. The final two chapters of the volume are considerably expanded; they illustrate the application of evolutionary biology to medicine and public health, and consider the ethical and societal issues of an evolutionary perspective. A number of new clinical examples and historical illustrations are included. This second edition of a novel and popular textbook provides an updated resource for doctors and other health professionals, medical students and biomedical scientists, as well as anthropologists interested in human health, to gain a better understanding of the evolutionary processes underlying human health and disease.

Building on the success of their groundbreaking anthology Evolutionary Medicine (OUP, 1999), Wenda R. Trevathan, E. O. Smith, and James J. McKenna provide an up-to-date and thought-provoking introduction to the field with this new collection of essays. Ideal for courses in evolutionary medicine, medical anthropology, and the evolution of human disease, Evolutionary Medicine and Health: New Perspectives presents twenty-three original articles that examine how human evolution relates to a broad range of contemporary health problems including infectious, chronic, nutritional, and mental diseases and disorders. Topics covered include disease susceptibility in cultural context, substance abuse and addiction, sleep disorders, preeclampsia, altitude-related hypoxia, the biological context of menstruation, and the role of stress in modern life. An international team of preeminent scholars in biological anthropology, medicine, biology, psychology, and geography contributed the selections. Together they represent a uniquely integrative and multidisciplinary approach that takes into account the dialogue between biology and culture as it relates to understanding, treating, and preventing disease. A common theme throughout is the description of cases in which biological human development conflicts with culturally based individual behaviors that determine health outcomes. Detailed, evidence-based arguments make the case that all aspects of the human condition covered in the volume have an evolutionary basis, while theoretical discussions using other empirical evidence critique the gaps that still remain in evolutionary approaches to health. Evolutionary Medicine and Health: New Perspectives features an introductory overview that covers the field's diverse array of topics, questions, lines of evidence, and perspectives. In addition, the editors provide introductions to each essay and an extensive bibliography that represents a state-of-the-art survey of the literature. A companionwebsite at www.oup.com/us/evolmed offers a full bibliography and links to source articles, reports, and databases. Written in an engaging style that is accessible to students, professionals, and general readers, this book offers a unique look at how an evolutionary perspective has become increasingly relevant to the health field and medical practice.

The next time you get sick, consider this before picking up the aspirin: your body may be doing exactly what it's supposed to. In this ground-breaking book, two pioneers of the science of Darwinian medicine argue that illness as well as the factors that predispose us toward it are subject to the same laws of natural selection that otherwise make our bodies such miracles of design. Among the concerns they raise: When may a fever be beneficial? Why do pregnant women get morning sickness? How do certain viruses 'manipulate' their hosts into infecting others? What evolutionary factors may be responsible for depression and panic disorder? Deftly summarizing research on disorders ranging from allergies to Alzheimer's, and from cancer to Huntington's chorea, Why We Get Sick, answers these questions and more. The result is a book that will revolutionize our attitudes toward illness and will intrigue and instruct lay person and medical practitioners alike.

Findings from the field of evolutionary biology are yielding dramatic insights for health scientists, especially those involved in the fight against infectious diseases. This book is the first in-depth presentation of these insights. In detailing why the pathogens that cause malaria, smallpox, tuberculosis, and AIDS have their special kinds of deadliness, the book shows how efforts to control virtually all diseases would benefit from a more thorough application of evolutionary principles. When viewed from a Darwinian perspective, a pathogen is not simply a disease-causing agent; it is a self-replicating organism driven by evolutionary pressures to pass on as many copies of itself as possible. In this context, so-called "cultural vectors"—those aspects of human behavior and the human environment that allow spread of disease from immobilized people—become more important than ever. Interventions to control diseases don't simply hinder their spread but can cause pathogens and the diseases they engender to evolve into more benign forms. In fact, the union of health science with evolutionary biology offers an entirely new dimension to policy making, as the possibility of determining the future course of many diseases becomes a reality. By presenting the first detailed explanation of an evolutionary perspective on infectious disease, the author has achieved a genuine milestone in the synthesis of health science, epidemiology, and evolutionary biology. Written in a clear, accessible style, it is intended for a wide readership among professionals in these fields and general readers interested in science and health.

Can an evolutionary perspective be integrated in day-to-day practice and is it of value in medical education and training? If so, when and how? Highlighting exciting areas of research into the evolutionary basis of health and disease, Medicine and Evolution: Current Applications and Future Prospects answers these questions and more. It draws on work from anthropologists, life scientists, and clinicians to provide a multidisciplinary perspective. Contributors emphasize practical applications and address how their work may inform clinical practice and medical education. They consider when evolutionary viewpoints might and might not be useful and conduct critical debates on controversial areas such as race-based pharmaceuticals. Presenting new data and weighing relevant evidence, the book introduces novel viewpoints on nutrition, diabetes, fertility, pediatrics, immune response, and psychiatry. The book brings anthropologically sophisticated, evidence-based discussions to common beliefs such as the role decreased parasite load plays in increasing vulnerability to certain diseases, variations in human environments and human adaptability, daily protein requirements, reasons for early pregnancy loss, and optimal mother-infant sleeping arrangements, as well as fresh ideas about syndromes as diverse as delusions and polycystic ovary syndrome. A critical assessment of evolutionary medicine and its potential to unlock the mysteries behind some of today's most baffling chronic diseases, this book provides physicians with a more accurate view of the body and a better ability to assess health and disease.

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