

Evolution and Medicine

By Robert Perlman

Donwload Read Online

Evolution and Medicine By Robert Perlman

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. *Evolution and Medicine* interweaves the presentation of evolutionary principles with examples that illustrate how an evolutionary perspective enhances our understanding of disease. The book 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. It incorporates the latest research in rapidly developing fields such as epigenetics and the study of the human microbiome. The book ends 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. *Evolution and Medicine* will appeal to all readers with a background or interest in medicine.

Download Evolution and Medicine ...pdf

Read Online Evolution and Medicine ...pdf

Evolution and Medicine

By Robert Perlman

Evolution and Medicine By Robert Perlman

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. *Evolution and Medicine* interweaves the presentation of evolutionary principles with examples that illustrate how an evolutionary perspective enhances our understanding of disease. The book 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. It incorporates the latest research in rapidly developing fields such as epigenetics and the study of the human microbiome. The book ends 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. *Evolution and Medicine* will appeal to all readers with a background or interest in medicine.

Evolution and Medicine By Robert Perlman Bibliography

- Sales Rank: #1173378 in Books
- Published on: 2013-07-24
- Released on: 2013-07-24
- Original language: English
- Number of items: 1
- Dimensions: 6.60" h x .50" w x 9.40" l, .0 pounds
- Binding: Paperback
- 200 pages

Download Evolution and Medicine ...pdf

Read Online Evolution and Medicine ...pdf

Download and Read Free Online Evolution and Medicine By Robert Perlman

Editorial Review

Review

"[Perlman's] enthusiasm, explanatory powers and extensive background in medicine and evolutionary biology shine through. The writing is clear." -John Easton *Science Life*

"It is exceptionally accessible (a glossary defines some key terms) and I genuinely enjoyed reading it and believe that it will help students (of biology or medicine) understand why evolution matters for medicine, public health, and biomedical research. This book should excite some to think more about evolution and medicine." -Daniel T. Blumstein *Trends in Ecology and Evolution*

"This is one of the most thought provoking books I have read in a long time...a beautifully written primer - and one that also offers a bridge into why how and why the study of evolutionary biology and the genetics that underpins this may offer new insights into the health of populations." -- Selena Gray, *Journal of Public Health*

"I would hope that it might become a simply standard reading for just about anyone interested in health care." --*Michael Ruse, the Evolution and Medicine Review*

"The back flap of ... *Evolution & Medicine* promises a text that is 'written for physicians, biomedical scientists, and both premedical and medical students.' The field needs books written for this purpose, and Perlman's book is a move in the right direction. ... I would gladly recommend this volume to new medical students and practicing physicians alike, as it will surely help them to recognize the deeper evolutionary explanations behind many human diseases." --*Evolution, Medicine, and Public Health*

"Perlman's book brings an important dimension to this debate, which is that the implications for the understanding of medicine are important. His chapters on aging, cancer, host-pathogen coevolution, sexually transmitted diseases, malaria, gene-culture evolution,
and man-made diseases are full of insights." -- *The Physiologist*

"The cover blurb refers to 'an anticipated expansion in seminars and in undergraduate and continuing education courses on this topic.' I agree. Physiology needs to return to its 19th-century roots in which there was no divorce between physiology and evolutionary biology." --*Denis Noble, The Pyschologist*

"Perlman's book brings an important dimension to this debate, which is that the implications for the understanding of medicine are important. His chapters on aging, cancer, host-pathogen coevolution, sexually transmitted diseases, malaria, gene-culture evolution,
and man-made diseases are full of insights." --*The Physiologist*

"With this short book Perlman has possibly achieved more in showing how evolution and medicine can be brought closer to one another than many other contributions." --*Studies in History and Philosophy of Biological and Biomedical Sciences*

"The well-researched and documented work includes key up-to-date papers. It makes a nice introduction to this timely topic. ... Highly recommended." --*Choice*

"It is good to see evolutionary medicine come into its own as a discipline, and I can recommend *Evolution and Medicine* to those looking for an overview of the foundations of this fascinating field." --*American Journal of Human Biology*

"This volume should find a broad audience among evolutionary biologists, physicians, bio-medical researchers, students who plan to enter these fields, and biologically literate readers who just want to know why they get sick. I recommend it enthusiastically to them all." --*Quarterly Review of Biology*

"[*Evolution and Medicine*] is an excellent resource for those desiring to understand evolutionary medicine beyond the more generalized and popular writings and will be especially useful to physicians and medical students." --*Reports of the National Center for Science Education*

About the Author

Robert Perlman, *Professor Emeritus, Department of Pediatrics and the College, University of Chicago*

Robert Perlman received an MD and a PhD (Biochemistry) from the University of Chicago and has had a career in academic medicine. He did research and taught at the National Institutes of Health, Harvard Medical School, and the University of Illinois at Chicago before returning to the University of Chicago. He has carried out research in a variety of fields, including the regulation of gene expression in bacteria and the biology of the sympathetic nervous system. He has been actively involved in medical education for most of his academic career and has taught courses on evolutionary medicine at the University of Chicago for over ten years.

Users Review

From reader reviews:

Michael Hill:

Inside other case, little men and women like to read book Evolution and Medicine. You can choose the best book if you love reading a book. Given that we know about how is important a book Evolution and Medicine. You can add information and of course you can around the world by a book. Absolutely right, because from book you can recognize everything! From your country until foreign or abroad you will be known. About simple matter until wonderful thing you can know that. In this era, you can open a book as well as searching by internet system. It is called e-book. You can use it when you feel weary to go to the library. Let's study.

Micheal McDonough:

Spent a free time for you to be fun activity to perform! A lot of people spent their sparetime with their family, or their own friends. Usually they undertaking activity like watching television, planning to beach, or picnic in the park. They actually doing ditto every week. Do you feel it? Do you want to something different to fill your own free time/ holiday? Might be reading a book is usually option to fill your no cost time/ holiday. The first thing you will ask may be what kinds of e-book that you should read. If you want to try look for book, may be the guide untitled Evolution and Medicine can be good book to read. May be it might be best activity to you.

Grace Godwin:

This Evolution and Medicine is great publication for you because the content which can be full of information for you who else always deal with world and also have to make decision every minute. This particular book reveal it info accurately using great arrange word or we can point out no rambling sentences included. So if you are read the item hurriedly you can have whole facts in it. Doesn't mean it only gives you straight forward sentences but tricky core information with beautiful delivering sentences. Having Evolution and Medicine in your hand like obtaining the world in your arm, data in it is not ridiculous one particular. We can say that no publication that offer you world within ten or fifteen minute right but this book already do that. So , it is good reading book. Hi Mr. and Mrs. occupied do you still doubt which?

Patrick Stokes:

What is your hobby? Have you heard that question when you got scholars? We believe that that concern was given by teacher with their students. Many kinds of hobby, Everyone has different hobby. And also you know that little person similar to reading or as looking at become their hobby. You should know that reading is very important and also book as to be the point. Book is important thing to incorporate you knowledge, except your current teacher or lecturer. You see good news or update about something by book. Different categories of books that can you take to be your object. One of them is niagra Evolution and Medicine.

Download and Read Online Evolution and Medicine By Robert Perlman #HV8PNLRJW02

Read Evolution and Medicine By Robert Perlman for online ebook

Evolution and Medicine By Robert Perlman Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Evolution and Medicine By Robert Perlman books to read online.

Online Evolution and Medicine By Robert Perlman ebook PDF download

Evolution and Medicine By Robert Perlman Doc

Evolution and Medicine By Robert Perlman Mobipocket

Evolution and Medicine By Robert Perlman EPub