



 Get Print Book

Infectious Disease: A Very Short Introduction (Very Short Introductions)

By Benjamin Bolker, Marta Wayne



Download



Read Online

Infectious Disease: A Very Short Introduction (Very Short Introductions)

By Benjamin Bolker, Marta Wayne

As doctors and biologists have learned, to their dismay, infectious disease is a moving target: new diseases emerge every year, old diseases evolve into new forms, and ecological and socioeconomic upheavals change the transmission pathways by which disease spread. By taking an approach focused on the general evolutionary and ecological dynamics of disease, this *Very Short Introduction* provides a general conceptual framework for thinking about disease.

Ecology and evolution provide the keys to answering the "where", "why", "how", and "what" questions about any particular infectious disease: where did it come from? How is it transmitted from one person to another, and why are some individuals more susceptible than others? What biochemical, ecological, and evolutionary strategies can be used to combat the disease? Is it more effective to block transmission at the population level, or to block infection at the individual level? Through a series of case studies, Benjamin Bolker and Marta L. Wayne introduce the major ideas of infectious disease in a clear and thoughtful way, emphasizing the general principles of infection, the management of outbreaks, and the evolutionary and ecological approaches that are now central to much research about infectious disease.

ABOUT THE SERIES:

The *Very Short Introductions* series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.



[Download Infectious Disease: A Very Short Introduction \(Ver ...pdf](#)



[Read Online Infectious Disease: A Very Short Introduction \(V ...pdf](#)

Infectious Disease: A Very Short Introduction (Very Short Introductions)

By Benjamin Bolker, Marta Wayne

Infectious Disease: A Very Short Introduction (Very Short Introductions) By Benjamin Bolker, Marta Wayne

As doctors and biologists have learned, to their dismay, infectious disease is a moving target: new diseases emerge every year, old diseases evolve into new forms, and ecological and socioeconomic upheavals change the transmission pathways by which disease spread. By taking an approach focused on the general evolutionary and ecological dynamics of disease, this *Very Short Introduction* provides a general conceptual framework for thinking about disease.

Ecology and evolution provide the keys to answering the "where", "why", "how", and "what" questions about any particular infectious disease: where did it come from? How is it transmitted from one person to another, and why are some individuals more susceptible than others? What biochemical, ecological, and evolutionary strategies can be used to combat the disease? Is it more effective to block transmission at the population level, or to block infection at the individual level? Through a series of case studies, Benjamin Bolker and Marta L. Wayne introduce the major ideas of infectious disease in a clear and thoughtful way, emphasizing the general principles of infection, the management of outbreaks, and the evolutionary and ecological approaches that are now central to much research about infectious disease.

ABOUT THE SERIES:

The *Very Short Introductions* series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Infectious Disease: A Very Short Introduction (Very Short Introductions) By Benjamin Bolker, Marta Wayne
Bibliography

- Sales Rank: #125912 in Books
- Brand: imusti
- Published on: 2015-08-01
- Original language: English
- Number of items: 1
- Dimensions: 4.40" h x .40" w x 6.70" l, .14 pounds
- Binding: Paperback
- 144 pages

 [Download Infectious Disease: A Very Short Introduction \(Ver ...pdf](#)

 [Read Online Infectious Disease: A Very Short Introduction \(V ...pdf](#)

Download and Read Free Online Infectious Disease: A Very Short Introduction (Very Short Introductions) By Benjamin Bolker, Marta Wayne

Editorial Review

About the Author

Benjamin Bolker is a theoretical ecologist at McMaster University in Hamilton, Ontario. Starting from degrees in physics and zoology and a general curiosity about biological populations that change through time, he has used mathematical and statistical tools to understand a wide range of ecological, evolutionary, and epidemiological systems. In particular, he has studied the dynamics of disease in organisms as diverse as humans, red grouse, gopher tortoises, and fruit flies. Following a Ph.D. at Cambridge University studying measles epidemics and a postdoctoral fellowship at Princeton studying ecosystem carbon dynamics and competition among plant species, he was an assistant and associate professor at the University of Florida (where he developed his current hyper-diverse range of interests) before moving to McMaster University.

Marta Wayne is an evolutionary geneticist at the University of Florida in Gainesville, FL, USA. She first became interested in infectious diseases during her graduate work at Princeton University, when she found an intriguing pattern of molecular evolution in a viral resistance gene in fruit flies. She returned to the subject following a postdoctoral research fellowship in molecular quantitative genetics at North Carolina State University and later tenure at the University of Florida. Wayne is part of a small but energetic group working to develop *Drosophila melanogaster* and its viruses as a model system to understand host-parasite coevolution. She is also interested in the dynamics of virus evolution in humans.

Users Review

From reader reviews:

Andre Roberts:

Do you have favorite book? When you have, what is your favorite's book? Book is very important thing for us to be aware of everything in the world. Each guide has different aim or perhaps goal; it means that guide has different type. Some people experience enjoy to spend their time to read a book. They can be reading whatever they have because their hobby is reading a book. Consider the person who don't like reading through a book? Sometime, man feel need book if they found difficult problem or even exercise. Well, probably you will want this Infectious Disease: A Very Short Introduction (Very Short Introductions).

Denise Welton:

Nowadays reading books are more than want or need but also be a life style. This reading practice give you lot of advantages. The benefits you got of course the knowledge the rest of the information inside the book that will improve your knowledge and information. The info you get based on what kind of e-book you read, if you want attract knowledge just go with schooling books but if you want sense happy read one having theme for entertaining for example comic or novel. Typically the Infectious Disease: A Very Short Introduction (Very Short Introductions) is kind of publication which is giving the reader unforeseen experience.

Daniel Starnes:

People live in this new morning of lifestyle always try and must have the time or they will get lots of stress from both lifestyle and work. So , when we ask do people have extra time, we will say absolutely indeed. People is human not really a huge robot. Then we inquire again, what kind of activity do you have when the spare time coming to you of course your answer can unlimited right. Then do you ever try this one, reading ebooks. It can be your alternative inside spending your spare time, the book you have read is definitely Infectious Disease: A Very Short Introduction (Very Short Introductions).

Johnny Sutton:

Do you really one of the book lovers? If yes, do you ever feeling doubt if you are in the book store? Make an effort to pick one book that you never know the inside because don't ascertain book by its handle may doesn't work is difficult job because you are scared that the inside maybe not because fantastic as in the outside appear likes. Maybe you answer can be Infectious Disease: A Very Short Introduction (Very Short Introductions) why because the fantastic cover that make you consider regarding the content will not disappoint a person. The inside or content is actually fantastic as the outside or perhaps cover. Your reading 6th sense will directly assist you to pick up this book.

Download and Read Online Infectious Disease: A Very Short Introduction (Very Short Introductions) By Benjamin Bolker, Marta Wayne #YZRH3N94LCK

Read Infectious Disease: A Very Short Introduction (Very Short Introductions) By Benjamin Bolker, Marta Wayne for online ebook

Infectious Disease: A Very Short Introduction (Very Short Introductions) By Benjamin Bolker, Marta Wayne 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 Infectious Disease: A Very Short Introduction (Very Short Introductions) By Benjamin Bolker, Marta Wayne books to read online.

Online Infectious Disease: A Very Short Introduction (Very Short Introductions) By Benjamin Bolker, Marta Wayne ebook PDF download

Infectious Disease: A Very Short Introduction (Very Short Introductions) By Benjamin Bolker, Marta Wayne Doc

Infectious Disease: A Very Short Introduction (Very Short Introductions) By Benjamin Bolker, Marta Wayne Mobipocket

Infectious Disease: A Very Short Introduction (Very Short Introductions) By Benjamin Bolker, Marta Wayne EPub