The Influence of Cooperative Bacteria on Animal Host Biology (Advances in Molecular and Cellular Microbiology)

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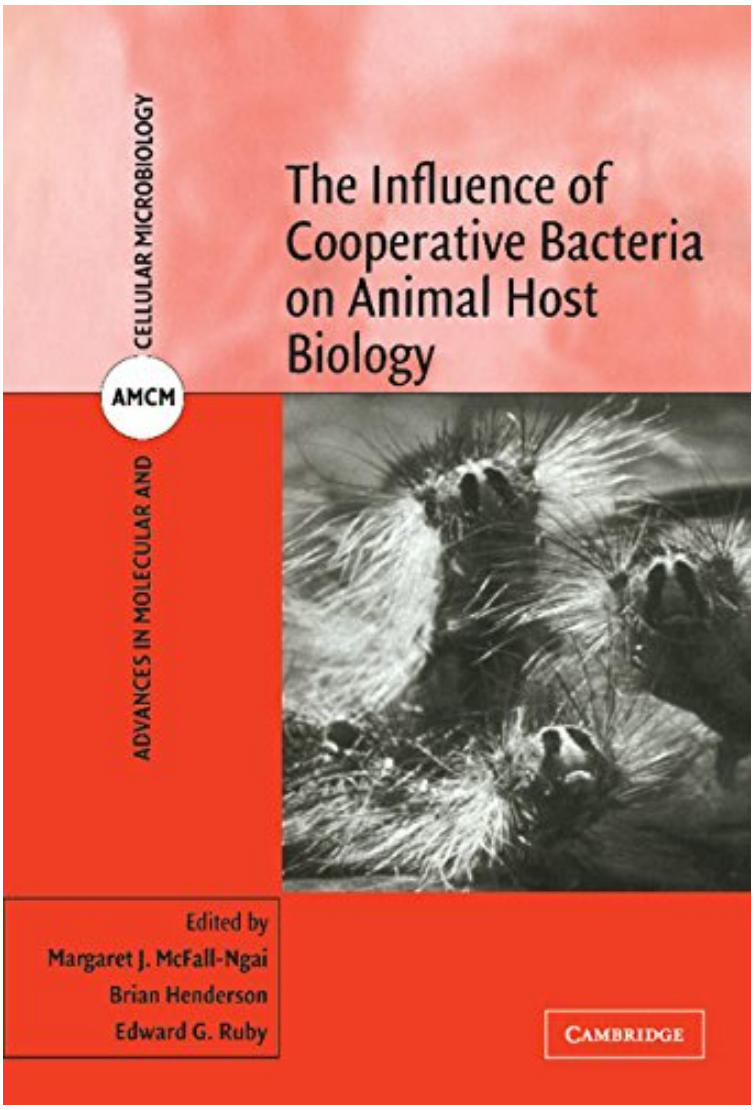

#4327661 in Books Cambridge University Press 2005-08-22Original language:EnglishPDF # 1 8.98 x .98 x 5.98l, 1.85 #File Name: 0521834651454 pages | File size: 76.Mb

From Brand: Cambridge University Press : The Influence of Cooperative Bacteria on Animal Host Biology (Advances in Molecular and Cellular Microbiology) before purchasing it in order to gage whether or not it would be worth my time, and all praised The Influence of Cooperative Bacteria on Animal Host Biology (Advances in Molecular and Cellular Microbiology):

1 of 1 people found the following review helpful. Our Little FriendsBy Jokie X WilsonIt turns out that most bacteria is

not pathogenic and many species are essential to the proper functioning of the human body. This book presents a whole new way of viewing bacteria, the human body, and their relationship to one another. 90% of the cells in our bodies are, by count, bacteria. We are more collectives of organisms then we are single beings.This book is highly technical, but very well written and surprisingly easy to follow with a basic understanding of biology. It not only is helpful for scientists, but also for persons interested in new theories about what it means to be human and our relationship with our environment. It provides some ideas to chew on about how to develop a better relationship with our bacteria as sterilizing the body of it does not offer any real benefit and is even harmful to our survival.

Ninety percent of the cells in the human body are bacteria, and humans may be host to many thousands of different species of bacteria. These striking statistics are part of a new paradigm in microbiology in which bacteria are no longer viewed as disease-causing killers but more as lifelong partners which are often essential for the survival of their host. This book brings together a group of diverse scientists - evolutionary biologists, immunologists, molecular biologists, microbiologists, pathologists and mathematicians - to discuss the evolution and mechanisms of bacteria-host interactions at all levels of complexity. Chapters deal with the evolution of these interactions over the last 60 years (since the introduction of antibiotics) to a period of 3.8 billion years (since the evolution of single-celled life) and discuss bacterial interactions with multicellular life forms from coral reefs to humans. Researchers and graduate students across the life sciences will find this book of interest.

'The title of this collection of reviews hints at a refreshing new angle regarding the interplay between a range of hosts and their associated bacterial communities.' Microbiology Today'This work is strongly recommended to all bacteriologists, immunologists, general microbiologists, biologists, zoologists, epidemiologists and ecologists.' Immunological InvestigationsAbout the AuthorMargaret J. McFall-Ngai is Professor of Medical Microbiology and Immunology at the University of Wisconsin School of Medicine.Brian Henderson is Professor of Cell Biology and head of the Cellular Microbiology Research Group in the Division of Microbial Diseases, Eastman Dental Institute, University College London. He is the co-editor of Molecular Chaperones and Cell Signalling (2005), Bacterial Evasion of Host Immune Responses (2003), and Bacterial Disease Mechanisms (2002).Edward G. Ruby is Professor of Medical Microbiology and Immunology at the University of Wisconsin School of Medicine.