

Deadly Companions How Microbes Shaped Our History

Deadly Companions Fundamentals of Microbiome Science The Silent Microcosm Microbial Drivers of Sociality – from Multicellularity to Animal Societies Ebola Professional Guide to Diseases The Hidden Half of Nature Microbes The Encyclopædia Britannica The Bacteriological World Microbes, Ferments and Moulds The World of Microbes The Popular Science Monthly Report Report Reports The Lancet British Medical Journal Microbes, ferments and moulds A Practical Guide to Meat Inspection Dorothy H. Crawford Angela E. Douglas Simran Soni Dino McMahon Dorothy H. Crawford Lippincott Williams & Wilkins David R. Montgomery Jim Teasdale Paul Paquin Edouard-Louis Trouessart Howard Gest New Hampshire. Department of Agriculture New Hampshire. Dept. of Agriculture New Hampshire Édouard Louis Trouessart Thomas Walley

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ever since we started huddling together in communities the story of human history has been inextricably entwined with the story of microbes they have evolved and spread amongst us shaping our culture through infection disease and pandemic at the same time our changing human culture has itself influenced the evolutionary path of microbes dorothy h crawford here shows that one cannot be truly understood without the other beginning with a dramatic account of the sars pandemic at the start of the 21st century she takes us back in time to follow the interlinked history of microbes and man taking an up to date look at ancient plagues and epidemics and identifying key changes in the way humans have lived such as our move from hunter gatherer to farmer to city dweller which made us vulnerable to microbe attack showing how we live our lives today with increasing crowding and air travel puts us once again at risk crawford asks whether we might ever conquer microbes completely or whether we need to take a more microbe centric view of the world among the possible answers one thing becomes clear that for generations to come our deadly companions will continue to shape human history oxford landmark science books are must read classics of modern science writing which have crystallized big ideas and shaped the way we think

an essential introduction to microbiome science a new cutting edge discipline that is transforming the life sciences this book provides an accessible and authoritative guide to

the fundamental principles of microbiome science an exciting and fast emerging new discipline that is reshaping many aspects of the life sciences resident microbes in healthy animals including humans can dictate many traits of the animal host this animal microbiome is a second immune system conferring protection against pathogens it can structure host metabolism in animals as diverse as reef corals and hibernating mammals and it may influence animal behavior from social recognition to emotional states these microbial partners can also drive ecologically important traits from thermal tolerance to diet and have contributed to animal diversification over long evolutionary timescales drawing on concepts and data across a broad range of disciplines and systems angela douglas provides a conceptual framework for understanding these animal microbe interactions while shedding critical light on the scientific challenges that lie ahead douglas explains why microbiome science demands creative and interdisciplinary thinking the capacity to combine microbiology with animal physiology ecological theory with immunology and evolutionary perspectives with metabolic science an essential introduction to a cutting edge field that is revolutionizing the life sciences this book explains why microbiome science presents a more complete picture of the biology of humans and other animals and how it can deliver novel therapies for many medical conditions and new strategies for pest control

the silent microcosm is a captivating exploration of the hidden universe that exists all around us but remains invisible to the naked eye written in an engaging storytelling style this book transforms complex microbiology into an accessible and inspiring narrative suitable for students researchers and anyone curious about how life truly works behind the scenes from the ancient microbial architects that shaped earth to the cutting edge breakthroughs of crispr synthetic biology and microbial robotics the book takes you on a journey through the past present and future of the microscopic world each chapter unfolds like a guided tour easy to understand scientifically accurate and deeply immersive readers will walk through invisible ecosystems understand the heroic roles microbes play in climate solutions explore how ai is reshaping biological sciences and witness the extraordinary innovations that will influence medicine space exploration and global sustainability designed for modern learners but rooted in scientific tradition the silent microcosm blends storytelling with real world applications making microbiology not just informative but unexpectedly human whether you re a student a young scientist or simply someone who loves discovering how life works behind the curtain this book offers clarity inspiration and a fresh perspective on the tiny forces that shape our world

first discovered in 1976 and long regarded as an easily manageable virus affecting isolated rural communities ebola rocketed to world prominence in 2014 as a deadly epidemic swept through guinea sierra leone and liberia in west africa thousands of people died as the extraordinarily contagious disease spread rapidly from villages to urban centres initial quarantine responses proved often too little and too late and the medical infrastructure of the affected countries struggled to cope by august 2014 several months after the start of the outbreak the who declared the epidemic a public health emergency and international aid teams and volunteers began to pour in but halting the epidemic proved to be hugely challenging not only in terms of the practicalities of dealing with the sheer numbers of patients carrying the highly infectious virus but in dealing with social and cultural barriers the author dorothy crawford visited sierra leone

while the epidemic was ongoing and met with those on the frontline in the fight against the virus in ebola crawford combines personal accounts from these brave medical workers with the latest scientific reports to tell the story of the epidemic as it unfolded and how it has changed our understanding of the virus she looks at its origin and spread the international response and its devastating legacy to the health of those living in the three worst affected countries she describes the efforts to prevent international spread the treatment options for ebola including the drug and vaccine trials that eventually got underway in 2015 and the sensitive issue of running trials of experimental therapies during a lethal epidemic our understanding of the ebola virus continues to develop as long term health problems and complications following recovery from the disease are being identified epidemics of ebola or other dangerous microbes will continue to threaten the world regularly already concerns have been raised by the possible impact of the zika virus what lessons have been learnt from ebola how asks crawford might we prevent a repeat of the awful suffering seen in 2014 16

offers a good introduction to the study of diseases each major entry includes information on the causes signs and symptoms diagnosis and treatments of various diseases

sure to become a game changing guide to the future of good food and healthy landscapes dan barber chef and author of the third plate prepare to set aside what you think you know about yourself and microbes the hidden half of nature reveals why good health for people and for plants depends on earth s smallest creatures restoring life to their barren yard and recovering from a health crisis david r montgomery and anne biklé discover astounding parallels between the botanical world and our own bodies from garden to gut they show why cultivating beneficial microbiomes holds the key to transforming agriculture and medicine

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Introduction

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