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Ebola

The Natural and Human History of a Deadly Virus

Acclaimed science writer and explorer David Quammen first came near the Ebola virus while he was traveling in the jungles of Gabon, accompanied by local men whose village had been devastated by a recent outbreak. Here he tells the story of Ebola -- its past, present, and its unknowable future.

Ebola: The Natural and Human History of a Deadly Virus

W. W. Norton & Company “A frightening and fascinating masterpiece of science reporting that reads like a detective story.” —Walter Isaacson In 1976 a deadly virus emerged from the Congo forest. As swiftly as it came, it disappeared, leaving no trace. Over the four decades since, Ebola has emerged sporadically, each time to devastating effect. It can kill up to 90 percent of its victims. In between these outbreaks, it is untraceable, hiding deep in the jungle. The search is on to find Ebola’s elusive host animal. And until we find it, Ebola will continue to strike. Acclaimed science writer and explorer David Quammen first came near the virus while he was traveling in the jungles of Gabon, accompanied by local men whose village had been devastated by a recent outbreak. Here he tells the story of Ebola—its past, present, and its unknowable future. Extracted from *Spillover* by David Quammen, updated and with additional material.

Ebola

The Natural and Human History

Random House In 1976 a deadly virus emerged from the Congo forest. As swiftly as it came, it disappeared, leaving no trace. Over the four decades since, Ebola has emerged sporadically, each time to devastating effect. It can kill up to 90% of its victims. In between these outbreaks, it is untraceable, hiding deep in the jungle. The search is on to find Ebola’s elusive host animal. And until we find it, Ebola will continue to strike. Acclaimed science writer and explorer David Quammen first came near the virus whilst travelling in the jungles of Gabon, accompanied by local men whose village had been devastated by a recent outbreak. Here he tells the story of Ebola, its past, present and its unknowable future.

Spillover: Animal Infections and the Next Human

Pandemic

W. W. Norton & Company Examines the emergence and causes of new diseases all over the world, describing a process called “spillover” where illness originates in wild animals before being passed to humans and discusses the potential for the next huge pandemic. 70,000 first printing.

The Hot Zone

The Terrifying True Story of the Origins of the Ebola Virus

Anchor The bestselling landmark account of the first emergence of the Ebola virus. Now a mini-series drama starring Julianna Margulies, Topher Grace, Liam Cunningham, James D'Arcy, and Noah Emmerich on National Geographic. A highly infectious, deadly virus from the central African rain forest suddenly appears in the suburbs of Washington, D.C. There is no cure. In a few days 90 percent of its victims are dead. A secret military SWAT team of soldiers and scientists is mobilized to stop the outbreak of this exotic "hot" virus. The Hot Zone tells this dramatic story, giving a hair-raising account of the appearance of rare and lethal viruses and their "crashes" into the human race. Shocking, frightening, and impossible to ignore, The Hot Zone proves that truth really is scarier than fiction.

Ebola

A Documentary Novel of Its First Explosion

Ballantine Books A documentary novel telling of the first outbreak of the Ebola virus in Zaire in 1976, based on the personal experiences of the author, an American physician who worked to control the epidemic.

Fevers, Feuds, and Diamonds

Ebola and the Ravages of History

Farrar, Straus and Giroux **"Paul Farmer brings his considerable intellect, empathy, and expertise to bear in this powerful and deeply researched account of the Ebola outbreak that struck West Africa in 2014. It is hard to imagine a more timely or important book."** —Bill and Melinda Gates "[The] history is as powerfully conveyed as it is tragic . . . Illuminating . . . Invaluable." —Steven Johnson, *The New York Times Book Review* In 2014, Sierra Leone, Liberia, and Guinea suffered the worst epidemic of Ebola in history. The brutal virus spread rapidly through a clinical desert where basic health-care facilities were few and far between. Causing severe loss of life and economic disruption, the Ebola crisis was a major tragedy of modern medicine. But why did it happen, and what can we learn from it? Paul Farmer, the internationally renowned doctor and anthropologist, experienced the Ebola outbreak firsthand—Partners in Health, the organization he founded, was among the international responders. In *Fevers, Feuds, and Diamonds*, he offers the first substantive account of this frightening, fast-moving episode and its implications. In vibrant prose, Farmer tells the harrowing stories of Ebola victims while showing why the medical response was slow and insufficient. Rebutting misleading claims about the origins of Ebola and why it spread so rapidly, he traces West Africa's chronic health failures back to centuries of exploitation and injustice. Under formal colonial rule, disease containment was a priority but care was not - and the region's health care woes worsened, with devastating consequences that Farmer traces up to the present. This thorough and hopeful narrative is a definitive work of reportage, history, and advocacy, and a crucial intervention in public-health discussions around the world.

Crisis in the Red Zone

The Story of the Deadliest Ebola Outbreak in History, and of the Outbreaks to Come

Random House **NEW YORK TIMES BESTSELLER** • An urgent wake-up call about the future of emerging viruses and a gripping account of the doctors and scientists fighting to protect us, told through the story of the deadly 2013-2014 Ebola epidemic “Crisis in the Red Zone reads like a thriller. That the story it tells is all true makes it all more terrifying.”—Elizabeth Kolbert, Pulitzer Prize-winning author of *The Sixth Extinction* From the #1 bestselling author of *The Hot Zone*, now a National Geographic original miniseries . . . This time, Ebola started with a two-year-old child who likely had contact with a wild creature and whose entire family quickly fell ill and died. The ensuing global drama activated health professionals in North America, Europe, and Africa in a desperate race against time to contain the viral wildfire. By the end—as the virus mutated into its deadliest form, and spread farther and faster than ever before—30,000 people would be infected, and the dead would be spread across eight countries on three continents. In this taut and suspenseful medical drama, Richard Preston deeply chronicles the pandemic, in which we saw for the first time the specter of Ebola jumping continents, crossing the Atlantic, and infecting people in America. Rich in characters and conflict—physical, emotional, and ethical—Crisis in the Red Zone is an immersion in one of the great public health calamities of our time. Preston writes of doctors and nurses in the field putting their own lives on the line, of government bureaucrats and NGO administrators moving, often fitfully, to try to contain the outbreak, and of pharmaceutical companies racing to develop drugs to combat the virus. He also explores the charged ethical dilemma over who should and did receive the rare doses of an experimental treatment when they became available at the peak of the disaster. Crisis in the Red Zone makes clear that the outbreak of 2013-2014 is a harbinger of further, more severe outbreaks, and of emerging viruses heretofore unimagined—in any country, on any continent. In our ever more interconnected world, with roads and towns cut deep into the jungles of equatorial Africa, viruses both familiar and undiscovered are being unleashed into more densely populated areas than ever before. The more we discover about the virosphere, the more we realize its deadly potential. Crisis in the Red Zone is an exquisitely timely book, a stark warning of viral outbreaks to come.

Viruses, Pandemics, and Immunity

MIT Press **How viruses emerge to cause pandemics, how our immune system combats them, and how diagnostic tests, vaccines, and antiviral therapies work. Throughout history, humans have contended with pandemics. History is replete with references to plagues, pestilence, and contagion, but the devastation wrought by pandemics had been largely forgotten by the twenty-first century. Now, the enormous human and economic toll of the rapidly spreading COVID-19 disease offers a vivid reminder that infectious disease pandemics are one of the greatest existential threats to humanity. This book provides an accessible explanation of how viruses emerge to cause pandemics, how our immune system combats them, and how diagnostic tests, vaccines, and antiviral therapies work-- concepts that are a foundation for our public health policies.**

The Hot Zone

Corgi **Imagine a killer with the infectiousness of the common cold and power of the Black Death. Imagine something so deadly that it wipes out 90% of those it touches. Imagine an organism against which there is no defence. But you don't need to imagine. Such a killer exists: it is a virus and its name is Ebola. The Hot Zone tells what happens when the unthinkable becomes reality: when a deadly virus, from the rain forests of Africa, crosses continents and infects a monkey house ten miles from the White House. Ebola is that reality. It has the power to decimate the world's population. Try not to panic. It will be back. There is nothing you can do...**

The Demon in the Freezer

Fawcett Books **Now in paperback--the timely and terrifying investigation into the dark underworld of biological weapons from the #1 "New York Times" bestselling author of "The Hot Zone."**

The Chimp and the River

How AIDS Emerged from an African Forest

Random House **The real story of AIDS - how it originated with a virus in a chimpanzee, jumped to one human and infected more than 60 million people - is very different from what most of us think we know. Recent research has revealed dark surprises and yielded a radically new scenario of how AIDS began and spread. Excerpted and adapted from Spillover, with a new introduction by the author, Quammen's hair-raising investigation tracks the virus from chimpanzee populations in the jungles off the southeastern Cameroon to laboratories across the globe, as he unravels the mysteries of when, where and how such a consequential 'spillover' can happen. An audacious search for answers amid more than a century of data, The Chimp and the River tells the haunting tale of one of the most devastating pandemics of our time.**

Ebola Virus Disease

From Origin to Outbreak

Academic Press **Ebola Virus Disease: From Origins to Outbreak covers Ebola virus disease in its entirety from its origins through major outbreaks in the past to the present day outbreak. It contains information on the West Saharan response to Ebola as well as highlights from the field in West Africa from Dr. Qureshi and Dr. Chughtai, helping to solve the primary question of what's next and aiding in formulating a path forward. With a growing awareness of the devastating effects of this viral disease and an influx of topical research, this book provides the information the global community of researchers, clinicians and students need to better inform their research and study of Ebola virus disease. Includes perspectives from the 2014-2015 outbreak from the field Provides a detailed overview of the origins of Ebola virus through present day discoveries Written with an integrative approach, incorporating scientific research with insights from the field**

The Cobra Event

A Novel

Ballantine Books **The Cobra Event** is set in motion one spring morning in New York City, when a seventeen-year-old student wakes up feeling vaguely ill. Hours later she is having violent seizures, blood is pouring out of her nose, and she has begun a hideous process of self-cannibalization. Soon, other gruesome deaths of a similar nature have been discovered, and the Centers for Disease Control sends a forensic pathologist to investigate. What she finds precipitates a federal crisis. The details of this story are fictional, but they are based on a scrupulously thorough inquiry into the history of biological weapons and their use by civilian and military terrorists. Richard Preston's sources include members of the FBI and the United States military, public health officials, intelligence officers in foreign governments, and scientists who have been involved in the testing of strategic bioweapons. The accounts of what they have seen and what they expect to happen are chilling. **The Cobra Event** is a dramatic, heart-stopping account of a very real threat, told with the skill and authority that made Preston's *The Hot Zone* an internationally acclaimed bestseller.

Blood Line

Stories of Fathers and Sons

Johnson Books **Blood Line** explores the complicated liaisons between fathers and sons. Though using traditional masculine backdrops, the three stories in the collection go beyond a portrayal of physical and emotional endurance to evoke the blending of guilt, rebellion, patricide, and the transcending power of kinship that allow both father and son to place themselves in relationship to each other and in relation to the world.

The Song of the Dodo

Island Biogeography in an Age of Extinctions

Emerging Viruses

AIDS and Ebola : Nature, Accident, Or Intentional?

Healthy World Dist **Explores the origins of HIV and Ebola and argues that these emerging viruses did not jump from monkey to man, but rather were laboratory creations transmitted via vaccines in the U.S. and Africa**

The Reluctant Mr. Darwin: An Intimate Portrait of Charles Darwin and the Making of His Theory of Evolution (Great Discoveries)

W. W. Norton & Company **"Quammen brilliantly and powerfully re-creates the 19th century naturalist's intellectual and spiritual journey."--Los Angeles Times Book Review** **Twenty-one years passed between Charles Darwin's epiphany that "natural selection" formed the basis of evolution and the scientist's publication of On the Origin of Species. Why did Darwin delay, and what happened during the course of those two decades? The human drama and scientific basis of these years constitute a fascinating, tangled tale that elucidates the character of a cautious naturalist who initiated an intellectual revolution.**

Plagues upon the Earth

Disease and the Course of Human History

Princeton University Press **A sweeping germ's-eye view of history from human origins to global pandemics** *Plagues upon the Earth* is a monumental history of humans and their germs. Weaving together a grand narrative of global history with insights from cutting-edge genetics, Kyle Harper explains why humanity's uniquely dangerous disease pool is rooted deep in our evolutionary past, and why its growth is accelerated by technological progress. He shows that the story of disease is entangled with the history of slavery, colonialism, and capitalism, and reveals the enduring effects of historical plagues in patterns of wealth, health, power, and inequality. He also tells the story of humanity's escape from infectious disease—a triumph that makes life as we know it possible, yet destabilizes the environment and fosters new diseases. Panoramic in scope, *Plagues upon the Earth* traces the role of disease in the transition to farming, the spread of cities, the advance of transportation, and the stupendous increase in human population. Harper offers a new interpretation of humanity's path to control over infectious disease—one where rising evolutionary threats constantly push back against human progress, and where the devastating effects of modernization contribute to the great divergence between societies. The book reminds us that human health is globally interdependent—and inseparable from the well-being of the planet itself. Putting the COVID-19 pandemic in perspective, *Plagues upon the Earth* tells the story of how we got here as a species, and it may help us decide where we want to go.

A Planet of Viruses

Second Edition

University of Chicago Press **For years, scientists have been warning us that a pandemic was all but inevitable. Now it's here, and the rest of us have a lot to learn. Fortunately, science writer Carl Zimmer is here to guide us. In this compact volume, he tells the story of how the smallest living things known to science can bring an entire planet of people to a halt--and what we can learn from how we've defeated them in the past.** *Planet of Viruses* covers such threats as Ebola,

MERS, and chikungunya virus; tells about recent scientific discoveries, such as a hundred-million-year-old virus that infected the common ancestor of armadillos, elephants, and humans; and shares new findings that show why climate change may lead to even deadlier outbreaks. Zimmer's lucid explanations and fascinating stories demonstrate how deeply humans and viruses are intertwined. Viruses helped give rise to the first life-forms, are responsible for many of our most devastating diseases, and will continue to control our fate for centuries. Thoroughly readable, and, for all its honesty about the threats, as reassuring as it is frightening, A Planet of Viruses is a fascinating tour of a world we all need to better understand.

Global Management of Infectious Disease After Ebola

Oxford University Press **The 2014-2015 Ebola outbreak in West Africa shocked the world with its devastation and its rapid migration to multiple continents. As the systems meant to respond to this sort of epidemic failed, the disease exposed not just weaknesses in international infectious disease surveillance and management, but the failures of governments, humanitarian organizations, and international institutions to handle the legal, ethical, and economic questions that arose with an event of this scale. GLOBAL MANAGEMENT OF INFECTIOUS DISEASE AFTER EBOLA unites the insights of Ebola's first responders with those the world's foremost experts in law, economics, vaccine development, and global migration to identify missed opportunities from the Ebola crisis -- and to apply these lessons to emerging infectious disease threats. Framed with critical discussions of both the global health financing infrastructures that precipitated the response and the ethical and human rights dilemmas that resulted from it, this volume is much more than postmortem to an outbreak: it is a vital, sometimes damning examination of where we've been and where we're going in the face of emerging infectious diseases.**

The Tangled Tree

A Radical New History of Life

Simon & Schuster **In this New York Times bestseller and longlist nominee for the National Book Award, "our greatest living chronicler of the natural world" (The New York Times), David Quammen explains how recent discoveries in**

molecular biology affect our understanding of evolution and life's history. In the mid-1970s, scientists began using DNA sequences to reexamine the history of all life. Perhaps the most startling discovery to come out of this new field—the study of life's diversity and relatedness at the molecular level—is horizontal gene transfer (HGT), or the movement of genes across species lines. It turns out that HGT has been widespread and important; we now know that roughly eight percent of the human genome arrived sideways by viral infection—a type of HGT. In *The Tangled Tree*, “the grandest tale in biology....David Quammen presents the science—and the scientists involved—with patience, candor, and flair” (*Nature*). We learn about the major players, such as Carl Woese, the most important little-known biologist of the twentieth century; Lynn Margulis, the notorious maverick whose wild ideas about “mosaic” creatures proved to be true; and Tsutomu Wantanabe, who discovered that the scourge of antibiotic-resistant bacteria is a direct result of horizontal gene transfer, bringing the deep study of genome histories to bear on a global crisis in public health. “David Quammen proves to be an immensely well-informed guide to a complex story” (*The Wall Street Journal*). In *The Tangled Tree*, he explains how molecular studies of evolution have brought startling recognitions about the tangled tree of life—including where we humans fit upon it. Thanks to new technologies, we now have the ability to alter even our genetic composition—through sideways insertions, as nature has long been doing. “*The Tangled Tree* is a source of wonder....Quammen has written a deep and daring intellectual adventure” (*The Boston Globe*).

Pandemic

Tracking Contagions, from Cholera to Ebola and Beyond

Macmillan "From the author of *The Fever*, a wide-ranging inquiry into the origins of pandemics Interweaving history, original reportage, and personal narrative, *Pandemic* explores the origins of epidemics, drawing parallels between the story of cholera—one of history's most disruptive and deadly pathogens—and the new pathogens that stalk humankind today, from Ebola and avian influenza to drug-resistant superbugs. More than three hundred infectious diseases have emerged or reemerged in new territory during the past fifty years, and 90 percent of epidemiologists expect that one of them will cause a disruptive, deadly pandemic sometime in the next two generations. To reveal how that might happen, Sonia Shah tracks each stage of cholera's dramatic journey from harmless microbe to world-changing pandemic, from its 1817 emergence in the South Asian hinterlands to its rapid dispersal across the nineteenth-century

world and its latest beachhead in Haiti. She reports on the pathogens following in cholera's footsteps, from the MRSA bacterium that besieges her own family to the never-before-seen killers emerging from China's wet markets, the surgical wards of New Delhi, the slums of Port-au-Prince, and the suburban backyards of the East Coast. By delving into the convoluted science, strange politics, and checkered history of one of the world's deadliest diseases, *Pandemic* reveals what the next epidemic might look like--and what we can do to prevent it"--

The Politics of Fear

Médecins sans Frontières and the West African Ebola Epidemic

Oxford University Press **The 2014-2015 Ebola epidemic in West Africa was an unprecedented medical and political emergency that cast an unflattering light on multiple corners of government and international response. Fear, not rational planning, appeared to drive many decisions made at population and leadership levels, which in turn brought about a response that was as uneven as it was unprecedented: entire populations were decimated or destroyed, vaccine trials were fast-tracked, health staff died, untested medications were used (or not used) in controversial ways, humanitarian workers returned home to enforced isolation, and military was employed to sometimes disturbing ends. The epidemic revealed serious fault lines at all levels of theory and practice of global public health: national governments were shown to be helpless and unprepared for calamity at this scale; the World Health Organization was roundly condemned for its ineffectiveness; the US quietly created its own African CDC a year after the epidemic began. Amid such chaos, Médecins sans Frontières was forced to act with unprecedented autonomy -- and amid great criticism - - in responding to the disease, taking unprecedented steps in deploying services and advocating for international aid. The Politics of Fear provides a primary documentary resource for recounting and learning from the Ebola epidemic. Comprising eleven topic-based chapters and four eyewitness vignettes from both MSF- and non-MSF-affiliated contributors (all of whom have been given access to MSF Ebola archives from Guinea, Sierra Leone, and Liberia for research), it aims to provide a politically agnostic account of the defining health event of the 21st century so far, one that will hopefully inform current opinions and future responses.**

What the Future Looks Like

Scientists Predict the Next Great Discoveries and Reveal How Today's Breakthroughs Are Already Shaping Our World

The Experiment **Get the science facts, not science fiction, on the cutting-edge developments that are already changing the course of our future. Every day, scientists conduct pioneering experiments with the potential to transform how we live. Yet it isn't every day you hear from the scientists themselves! Now, award-winning author Jim Al-Khalili and his team of top-notch experts explain how today's earthshaking discoveries will shape our world tomorrow—and beyond. Pull back the curtain on: genomics robotics AI the "Internet of Things" synthetic biology transhumanism interstellar travel colonization of the solar system teleportation and much more And find insight into big-picture questions such as: Will we find a cure to all diseases? The answer to climate change? And will bionics one day turn us into superheroes? The scientists in these pages are interested only in the truth—reality-based and speculation-free. The future they conjure is by turns tantalizing and sobering: There's plenty to look forward to, but also plenty to dread. And undoubtedly the best way to for us to face tomorrow's greatest challenges is to learn what the future looks like—today. Praise for What the Future Looks Like "A collection of mind-boggling essays that are just the thing for firing up your brain cells." —Saga Magazine "The predictions and impacts are global . . . [and] the book contains far more fascinating information than can be covered in this review." —Choice "This book is filled with essays from experts offering their informed opinions on what the science and technology of today will look like in the future, from smart materials to artificial intelligence to genetic editing." —Popular Science "Fun is an understatement. This is a great collection to get the summer book season started." —Forbes.com "The focus on sincere, factual presentation of current and future possibilities by leading experts is particularly welcome in this era of fake news and anti-science rhetoric." —Library Journal**

Panic in Level 4

Cannibals, Killer Viruses, and Other Journeys to the Edge of Science

Random House **Bizarre illnesses and plagues that kill people in the most unspeakable ways. Obsessive and inspired efforts by scientists to solve mysteries and save lives. From *The Hot Zone* to *The Demon in the Freezer* and beyond, Richard Preston's bestselling works have mesmerized readers everywhere by showing them strange worlds of nature they never dreamed of. *Panic in Level 4* is a grand tour through the eerie and unforgettable universe of Richard Preston, filled with incredible characters and mysteries that refuse to leave one's mind. Here are dramatic true stories from this acclaimed and award-winning author, including:**

- The phenomenon of "self-cannibals," who suffer from a rare genetic condition caused by one wrong letter in their DNA that forces them to compulsively chew their own flesh-and why everyone may have a touch of this disease.
- The search for the unknown host of Ebola virus, an organism hidden somewhere in African rain forests, where the disease finds its way into the human species, causing outbreaks of unparalleled horror.
- The brilliant Russian brothers-"one mathematician divided between two bodies"-who built a supercomputer in their apartment from mail-order parts in an attempt to find hidden order in the number pi (π).

In fascinating, intimate, and exhilarating detail, Richard Preston portrays the frightening forces and constructive discoveries that are currently roiling and reordering our world, once again proving himself a master of the nonfiction narrative and, as noted in *The Washington Post*, "a science writer with an uncommon gift for turning complex biology into riveting page-turners."

Rabid

A Cultural History of the World's Most Diabolical Virus

Penguin **The most fatal virus known to science, rabies—a disease that spreads avidly from animals to humans—kills nearly one hundred percent of its victims once the infection takes root in the brain. In this critically acclaimed exploration, journalist Bill Wasik and veterinarian Monica Murphy chart four thousand years of the history, science, and cultural mythology of rabies. From Greek myths to zombie flicks, from the laboratory heroics of Louis Pasteur to the contemporary search for a lifesaving treatment, Rabid is a fresh and often wildly entertaining look at one of humankind's oldest and most fearsome foes. "A searing narrative." -The New York Times "In this keen and exceptionally well-written book, rife with surprises, narrative suspense and a steady flow of expansive insights, 'the world's most diabolical virus' conquers the unsuspecting reader's imaginative nervous system. . . . A smart, unsettling, and strangely stirring piece of work." -San Francisco Chronicle "Fascinating. . . . Wasik and Murphy chronicle more than two millennia of myths and discoveries about rabies and the animals that transmit it, including dogs, bats and raccoons." -The Wall Street Journal**

Epidemics and Society

From the Black Death to the Present

Yale University Press **A wide-ranging study that illuminates the connection between epidemic diseases and societal change, from the Black Death to Ebola This sweeping exploration of the impact of epidemic diseases looks at how mass infectious outbreaks have shaped society, from the Black Death to today. In a clear and accessible style, Frank M. Snowden reveals the ways that diseases have not only influenced medical science and public health, but also transformed the arts, religion, intellectual history, and warfare. A multidisciplinary and comparative investigation of the medical and social history of the major epidemics, this volume touches on themes such as the evolution of medical therapy, plague literature, poverty, the environment, and mass hysteria. In addition to providing historical perspective on diseases such as smallpox, cholera, and tuberculosis, Snowden examines the fallout from recent epidemics such as HIV/AIDS, SARS, and Ebola and the question of the world's preparedness for the next generation of diseases.**

The Ebola Epidemic in West Africa

Proceedings of a Workshop

National Academies Press **The most recent Ebola epidemic that began in late 2013 alerted the entire world to the gaps in infectious disease emergency preparedness and response. The regional outbreak that progressed to a significant public health emergency of international concern (PHEIC) in a matter of months killed 11,310 and infected more than 28,616. While this outbreak bears some unique distinctions to past outbreaks, many characteristics remain the same and contributed to tragic loss of human life and unnecessary expenditure of capital: insufficient knowledge of the disease, its reservoirs, and its transmission; delayed prevention efforts and treatment; poor control of the disease in hospital settings; and inadequate community and international responses. Recognizing the opportunity to learn from the countless lessons of this epidemic, the National Academies of Sciences, Engineering, and Medicine convened a workshop in March 2015 to discuss the challenges to successful outbreak responses at the scientific, clinical, and global health levels. Workshop participants explored the epidemic from multiple perspectives, identified important questions about Ebola that remained unanswered, and sought to apply this understanding to the broad challenges posed by Ebola and other emerging pathogens, to prevent the international community from being taken by surprise once again in the face of these threats. This publication summarizes the presentations and discussions from the workshop.**

Behind the Eclipse

The Unheard from the West African Ebola Crisis . . .

Partridge Publishing **Tamba, later known as George, unveils his jaw-dropping story of surviving Ebola, which is an experience of virtual rebirth. It is astounding to know how he maintains his stamina to continue his journey along the rugged pathway of life as an Ebola survivor for the sake of the two sons left with him after the tragic death of his wife, Aminatta, and the daughter of Kumba, his first love. This semifiction stretches the full length through the West African**

Ebola Crisis, revealing the unheard to its readers while challenging the belief that Ebola is new to West Africa. Ultimately, Tamba wins his battle of life, and he says, “I want my story to be heard by the entire world. Life is a battle, which one has to fight even when in the jaws of defeat, and one can’t be selfish to give it up as it is for those whom we love and care for.”

Framing Animals as Epidemic Villains

Histories of Non-Human Disease Vectors

Springer Nature **This book takes a historical and anthropological approach to understanding how non-human hosts and vectors of diseases are understood, at a time when emerging infectious diseases are one of the central concerns of global health. The volume critically examines the ways in which animals have come to be framed as ‘epidemic villains’ since the turn of the nineteenth century. Providing epistemological and social histories of non-human epidemic blame, as well as ethnographic perspectives on its recent manifestations, the essays explore this cornerstone of modern epidemiology and public health alongside its continuing importance in today’s world. Covering diverse regions, the book argues that framing animals as spreaders and reservoirs of infectious diseases - from plague to rabies to Ebola - is an integral aspect not only to scientific breakthroughs but also to the ideological and biopolitical apparatus of modern medicine. As the first book to consider the impact of the image of non-human disease hosts and vectors on medicine and public health, it offers a major contribution to our understanding of human-animal interaction under the shadow of global epidemic threat.**

The Mosquito

A Human History of Our Deadliest Predator

Penguin ****The instant New York Times bestseller.** *An international bestseller.* Finalist for the Lane Anderson Award Finalist for the RBC Taylor Award “Hugely impressive, a major work.”—NPR A pioneering and groundbreaking work of narrative nonfiction that offers a dramatic new perspective on the history of humankind, showing how through**

millennia, the mosquito has been the single most powerful force in determining humanity's fate Why was gin and tonic the cocktail of choice for British colonists in India and Africa? What does Starbucks have to thank for its global domination? What has protected the lives of popes for millennia? Why did Scotland surrender its sovereignty to England? What was George Washington's secret weapon during the American Revolution? The answer to all these questions, and many more, is the mosquito. Across our planet since the dawn of humankind, this nefarious pest, roughly the size and weight of a grape seed, has been at the frontlines of history as the grim reaper, the harvester of human populations, and the ultimate agent of historical change. As the mosquito transformed the landscapes of civilization, humans were unwittingly required to respond to its piercing impact and universal projection of power. The mosquito has determined the fates of empires and nations, razed and crippled economies, and decided the outcome of pivotal wars, killing nearly half of humanity along the way. She (only females bite) has dispatched an estimated 52 billion people from a total of 108 billion throughout our relatively brief existence. As the greatest purveyor of extermination we have ever known, she has played a greater role in shaping our human story than any other living thing with which we share our global village. Imagine for a moment a world without deadly mosquitoes, or any mosquitoes, for that matter? Our history and the world we know, or think we know, would be completely unrecognizable. Driven by surprising insights and fast-paced storytelling, *The Mosquito* is the extraordinary untold story of the mosquito's reign through human history and her indelible impact on our modern world order.

No Time to Lose: A Life in Pursuit of Deadly Viruses

W. W. Norton & Company A microbiologist describes his adventure-filled career, discussing his time spent in Central Africa in the 1970s identifying the Ebola virus and his work there again in the 1980s as part of the area's first international AIDS efforts. 20,000 first printing.

Global Health Security

Recognizing Vulnerabilities, Creating Opportunities

Springer Nature **With our highly connected and interdependent world, the growing threat of infectious diseases and public health crisis has shed light on the requirement for global efforts to manage and combat highly pathogenic infectious diseases and other public health crisis on an unprecedented level. Such disease threats transcend borders. Reducing global threats posed by infectious disease outbreaks - whether naturally caused or resulting from a deliberate or accidental release - requires efforts that cross the disaster management pillars: mitigation, preparedness, response and recovery. This book addresses the issues of global health security along 4 themes: Emerging Threats; Mitigation, Preparedness, Response and Recovery; Exploring the Technology Landscape for Solutions; Leadership and Partnership. The authors of this volume highlight many of the challenges that confront our global security environment today. These range from politically induced disasters, to food insecurity, to zoonosis and terrorism. More optimistically, the authors also present some advances in technology that can help us combat these threats. Understanding the challenges that confront us and the tools we have to overcome them will allow us to face our future with confidence.**

Virusphere

From Common Colds to Ebola Epidemics—Why We Need the Viruses That Plague Us

Rowman & Littlefield **A fascinating and long overdue examination of viruses - from what they are and what they do, to the vital role they have played in human history. What are viruses? Do they rely on genes, like all other forms of life? Do they follow the same patterns of evolution as plants and animals? Dr. Frank Ryan answers these questions and many more in a sweeping tour of illnesses caused by viruses. He examines the common cold, measles, chicken pox, herpes, mumps, and rubella, as well as less familiar maladies, such as rabies, "breakbone fever," hemorrhagic fevers like Ebola, and virus-induced cancers. Along the way, readers will learn about the behaviors of viruses and what drives**

them to infect a human host. Ryan explains the role of viruses in the evolution of life, revealing how viruses have changed us at the most intimate level, helping to make us quintessentially human.

In the Company of Men

Other Press, LLC Drawing on real accounts of the Ebola outbreak that devastated West Africa, this poignant, timely fable reflects on both the strength and the fragility of life and humanity's place in the world. Two boys venture from their village to hunt in a nearby forest, where they shoot down bats with glee, and cook their prey over an open fire. Within a month, they are dead, bodies ravaged by an insidious disease that neither the local healer's potions nor the medical team's treatments could cure. Compounding the family's grief, experts warn against touching the sick. But this caution comes too late: the virus spreads rapidly, and the boys' father is barely able to send his eldest daughter away for a chance at survival. In a series of moving snapshots, Véronique Tadjo illustrates the terrible extent of the Ebola epidemic, through the eyes of those affected in myriad ways: the doctor who tirelessly treats patients day after day in a sweltering tent, protected from the virus only by a plastic suit; the student who volunteers to work as a gravedigger while universities are closed, helping the teams overwhelmed by the sheer number of bodies; the grandmother who agrees to take in an orphaned boy cast out of his village for fear of infection. And watching over them all is the ancient and wise Baobab tree, mourning the dire state of the earth yet providing a sense of hope for the future. Acutely relevant to our times in light of the coronavirus pandemic, *In the Company of Men* explores critical questions about how we cope with a global crisis and how we can combat fear and prejudice.

A Troublesome Inheritance

Genes, Race and Human History

Penguin Drawing on startling new evidence from the mapping of the genome, an explosive new account of the genetic basis of race and its role in the human story Fewer ideas have been more toxic or harmful than the idea of the biological reality of race, and with it the idea that humans of different races are biologically different from one another. For this understandable reason, the idea has been banished from polite academic conversation. Arguing that

race is more than just a social construct can get a scholar run out of town, or at least off campus, on a rail. Human evolution, the consensus view insists, ended in prehistory. Inconveniently, as Nicholas Wade argues in *A Troublesome Inheritance*, the consensus view cannot be right. And in fact, we know that populations have changed in the past few thousand years—to be lactose tolerant, for example, and to survive at high altitudes. Race is not a bright-line distinction; by definition it means that the more human populations are kept apart, the more they evolve their own distinct traits under the selective pressure known as Darwinian evolution. For many thousands of years, most human populations stayed where they were and grew distinct, not just in outward appearance but in deeper senses as well. Wade, the longtime journalist covering genetic advances for *The New York Times*, draws widely on the work of scientists who have made crucial breakthroughs in establishing the reality of recent human evolution. The most provocative claims in this book involve the genetic basis of human social habits. What we might call middle-class social traits—thrift, docility, nonviolence—have been slowly but surely inculcated genetically within agrarian societies, Wade argues. These “values” obviously had a strong cultural component, but Wade points to evidence that agrarian societies evolved away from hunter-gatherer societies in some crucial respects. Also controversial are his findings regarding the genetic basis of traits we associate with intelligence, such as literacy and numeracy, in certain ethnic populations, including the Chinese and Ashkenazi Jews. Wade believes deeply in the fundamental equality of all human peoples. He also believes that science is best served by pursuing the truth without fear, and if his mission to arrive at a coherent summa of what the new genetic science does and does not tell us about race and human history leads straight into a minefield, then so be it. This will not be the last word on the subject, but it will begin a powerful and overdue conversation.

A Year of Ebola

A Personal Tale of the Weirdness Wrought by the World's

Largest Ebola Virus Disease Epidemic

This narrative history| memoir provides a close look at work in the West Africa Ebola epidemic in 2014 by a physician who was on the ground in Guinea, Sierra Leone, Nigeria. It gives a personal account of challenges and opportunities, some captured and some lost, placing events in the context of affected communities, responders, and the global health community.

The Invisible Enemy

A Natural History of Viruses

OUP Oxford Viruses are disarmingly small and simple. None the less, the smallpox virus killed over 300 million people in the 20th century prior to its eradication in 1980. The AIDS virus, HIV, is now the single most common cause of death in Africa. In recent years, the outbreaks of several lethal viruses such as Ebola and hanta virus have caused great public concern. In her fascinating and vividly written book, Dorothy Crawford describes all aspects of the natural history of these deadly parasites, explaining how they differ from other microorganisms. She looks at the havoc viruses have caused in the past, where they have come from, and the detective work involved in uncovering them. Finally, she considers whether a new virus could potentially wipe out the human race. This is an informative and highly readable book, which will be read by all those seeking a deeper understanding of these minute but remarkably efficient killers.

Viruses

Harvard University Press While viruses—the world's most abundant biological entities—are not technically alive, they invade, replicate, and evolve within living cells. Michael Cordingley goes beyond our familiarity with infections to show how viruses spur evolutionary change in their hosts and shape global ecosystems, from ocean photosynthesis to drug-resistant bacteria.