

Spillover Animal Infections And The Next Human Pandemic David Quammen

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Brigham Young - John G.
Turner 2012-09-25

Brigham Young was a rough-
hewn New York craftsman

whose impoverished life was electrified by the Mormon faith. Turner provides a fully realized portrait of this spiritual prophet, viewed by followers as a protector and by opponents as a heretic. His pioneering faith made a deep imprint on tens of thousands of lives in the American Mountain West.

Natural Acts: A Sidelong View of Science and Nature - David

Quammen 2009-03-30

"David Quammen is simply the best natural essayist working today."--Tim Cahill, author of *Lost in My Own Backyard*

"Lively writing about science and nature depends less on the offering of good answers, I think, than on the offering of good questions," said David Quammen in the original introduction to *Natural Acts*. For more than two decades, he has stuck to that credo. In this updated version of curiosity leads him from New Mexico to Romania, from the Congo to the Amazon, asking

questions about mosquitoes (what are their redeeming merits?), dinosaurs (how did they change the life of a dyslexic Vietnam vet?), and cloning (can it save endangered species?). This revised and expanded edition best-loved "Natural Acts" columns, which first appeared in *Outside* magazine in the early 1980s, and includes recent pieces such as "Planet of Weeds," an influential new *Natural Acts* is an eye-opening journey that will please both Quammen fans and newcomers to his work. Song lyrics have been redacted from this ebook owing to permissions issues.

Once Upon a Time I Lived on Mars - Kate Greene 2020-07-14

When it comes to Mars, the focus is often on how to get there: the rockets, the engines, the fuel. But upon arrival, what will it actually be like? In 2013, Kate Greene moved to Mars. That is, along with five fellow crew members, she embarked on

NASA's first HI-SEAS mission, a simulated Martian environment located on the slopes of Mauna Loa in Hawai'i. For four months she lived, worked, and slept in an isolated geodesic dome, conducting a sleep study on her crew mates and gaining incredible insight into human behavior in tight quarters, as well as the nature of boredom, dreams, and isolation that arise amidst the promise of scientific progress and glory. In *Once Upon a Time I Lived on Mars*, Greene draws on her experience to contemplate humanity's broader impulse to explore. The result is a twined story of space and life, of the standard, able-bodied astronaut and Greene's brother's disability, of the lag time of interplanetary correspondences and the challenges of a long-distance marriage, of freeze-dried egg powder and fresh pineapple, of departure and return. By asking what kind of wisdom humanity might take to Mars

and elsewhere in the Universe, Greene has written a remarkable, wide-ranging examination of our time in space right now, as a pre-Mars species, poised on the edge, readying for launch.

The Connections Between Ecology and Infectious Disease -

Christon J. Hurst 2018-08-30

This book summarizes current advances in our understanding of how infectious disease represents an ecological interaction between a pathogenic microorganism and the host species in which that microbe causes illness. The contributing authors explain that pathogenic microorganisms often also have broader ecological connections, which can include a natural environmental presence; possible transmission by vehicles such as air, water, and food; and interactions with other host species, including vectors for which the microbe either may or may not be pathogenic. This field of science has been dubbed disease ecology, and the chapters

that examine it have been grouped into three sections. The first section introduces both the role of biological community interactions and the impact of biodiversity on infectious disease. In turn, the second section considers those diseases directly affecting humans, with a focus on waterborne and foodborne illnesses, while also examining the critical aspect of microbial biofilms. Lastly, the third section presents the ecology of infectious diseases from the perspective of their impact on mammalian livestock and wildlife as well as on humans. Given its breadth of coverage, the volume offers a valuable resource for microbial ecologists and biomedical scientists alike.

The Tangled Tree - David Quammen 2019-08-06

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).

Ebola: The Natural and Human History of a Deadly Virus - David Quammen 2014-10-20

“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.

Spillover: Animal Infections and the Next Human Pandemic -

David Quammen 2012-10

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.

Monster of God: The Man-Eating Predator in the Jungles of

History and the Mind - David Quammen 2004-09-17

"Rich detail and vivid anecdotes of adventure....A treasure trove of exotic fact and hard thinking."

—New York Times Book

Review For millennia, lions, tigers, and their man-eating kin have kept our dark, scary forests dark and scary, and their

predatory majesty has been the stuff of folklore. But by the year 2150 big predators may only exist on the other side of glass barriers and chain-link fences. Their gradual disappearance is changing the very nature of our existence. We no longer occupy an intermediate position on the food chain; instead we survey it invulnerably from above—so far above that we are in danger of forgetting that we even belong to an ecosystem. Casting his expert eye over the rapidly diminishing areas of wilderness where predators still reign, the award-winning author of *The Song of the Dodo* and *The Tangled Tree* examines the fate of lions in India's Gir forest, of saltwater crocodiles in northern Australia, of brown bears in the mountains of Romania, and of Siberian tigers in the Russian Far East. In the poignant and troublesome ferocity of these embattled creatures, we recognize something primeval

deep within us, something in danger of vanishing forever.

The Sixth Extinction - Elizabeth Kolbert 2014-02-11

ONE OF THE NEW YORK TIMES BOOK REVIEW'S 10 BEST BOOKS OF THE YEAR A

major book about the future of the world, blending intellectual and natural history and field reporting into a powerful account of the mass extinction unfolding before our eyes Over the last half a billion years, there have been five mass extinctions, when the diversity of life on earth suddenly and dramatically contracted. Scientists around the world are currently monitoring the sixth extinction, predicted to be the most devastating extinction event since the asteroid impact that wiped out the dinosaurs. This time around, the cataclysm is us. In *The Sixth Extinction*, two-time winner of the National Magazine Award and New Yorker writer Elizabeth Kolbert draws on the

work of scores of researchers in half a dozen disciplines, accompanying many of them into the field: geologists who study deep ocean cores, botanists who follow the tree line as it climbs up the Andes, marine biologists who dive off the Great Barrier Reef. She introduces us to a dozen species, some already gone, others facing extinction, including the Panamanian golden frog, staghorn coral, the great auk, and the Sumatran rhino. Through these stories, Kolbert provides a moving account of the disappearances occurring all around us and traces the evolution of extinction as concept, from its first articulation by Georges Cuvier in revolutionary Paris up through the present day. The sixth extinction is likely to be mankind's most lasting legacy; as Kolbert observes, it compels us to rethink the fundamental question of what it means to be human.

Taking a Multisectoral One

Health Approach : A Tripartite Guide to Addressing Zoonotic Diseases in Countries - Food and Agriculture Organization of the United Nations 2019-03-11

The 2018 FAO-OIE-WHO (Tripartite) zoonoses guide, “Taking A Multisectoral, One Health Approach: A Tripartite Guide to Addressing Zoonotic Diseases in Countries” (2018 TZG) is being jointly developed to provide member countries with practical guidance on OH approaches to build national mechanisms for multisectoral coordination, communication, and collaboration to address zoonotic disease threats at the animal-human-environment interface. The 2018 TZG updates and expands on the guidance in the one previous jointly-developed, zoonoses-specific guidance document: the 2008 Tripartite “Zoonotic Diseases: A Guide to Establishing Collaboration between Animal and Human Health Sectors at the Country

Level”, developed in WHO South-East Asia Region and Western Pacific Region. The 2018 TZG supports building by countries of the resilience and capacity to address emerging and endemic zoonotic diseases such as avian influenza, rabies, Ebola, and Rift Valley fever, as well as food-borne diseases and antimicrobial resistance, and to minimize their impacts on health, livelihoods, and economies. It additionally supports country efforts to implement WHO International Health Regulations (2005) and OIE international standards, to address gaps identified through external and internal health system evaluations, and to achieve targets of the Sustainable Development Goals. The 2018 TZG provides relevant country ministries and agencies with lessons learned and good practices identified from country-level experiences in taking OH approaches for preparedness, prevention, detection and

response to zoonotic disease threats, and provides guidance on multisectoral communication, coordination, and collaboration. It informs on regional and country-level OH activities and relevant unisectoral and multisectoral tools available for countries to use.

Global Health Impacts of Vector-Borne Diseases - National Academies of Sciences, Engineering, and Medicine
2016-09-21

Pathogens transmitted among humans, animals, or plants by insects and arthropod vectors have been responsible for significant morbidity and mortality throughout recorded history. Such vector-borne diseases – including malaria, dengue, yellow fever, and plague – together accounted for more human disease and death in the 17th through early 20th centuries than all other causes combined. Over the past three decades, previously controlled vector-borne diseases have

resurged or reemerged in new geographic locations, and several newly identified pathogens and vectors have triggered disease outbreaks in plants and animals, including humans. Domestic and international capabilities to detect, identify, and effectively respond to vector-borne diseases are limited. Few vaccines have been developed against vector-borne pathogens. At the same time, drug resistance has developed in vector-borne pathogens while their vectors are increasingly resistant to insecticide controls. Furthermore, the ranks of scientists trained to conduct research in key fields including medical entomology, vector ecology, and tropical medicine have dwindled, threatening prospects for addressing vector-borne diseases now and in the future. In June 2007, as these circumstances became alarmingly apparent, the Forum on Microbial Threats hosted a workshop to explore the

dynamic relationships among host, pathogen(s), vector(s), and ecosystems that characterize vector-borne diseases. Revisiting this topic in September 2014, the Forum organized a workshop to examine trends and patterns in the incidence and prevalence of vector-borne diseases in an increasingly interconnected and ecologically disturbed world, as well as recent developments to meet these dynamic threats. Participants examined the emergence and global movement of vector-borne diseases, research priorities for understanding their biology and ecology, and global preparedness for and progress toward their prevention, control, and mitigation. This report summarizes the presentations and discussions from the workshop.

Spillover: Animal Infections and the Next Human Pandemic - David Quammen 2012-10-01

"[Mr. Quammen] is not just among our best science writers but among our best writers,

period." —Dwight Garner, *New York Times*

The next big human pandemic—the next disease cataclysm, perhaps on the scale of AIDS or the 1918 influenza—is likely to be caused by a new virus coming to humans from wildlife. Experts call such an event “spillover” and they warn us to brace ourselves. David Quammen has tracked this subject from the jungles of Central Africa, the rooftops of Bangladesh, and the caves of southern China to the laboratories where researchers work in space suits to study lethal viruses. He illuminates the dynamics of Ebola, SARS, bird flu, Lyme disease, and other emerging threats and tells the story of AIDS and its origins as it has never before been told. *Spillover* reads like a mystery tale, full of mayhem and clues and questions. When the Next Big One arrives, what will it look like? From which innocent host animal will it emerge? Will we be ready?

The American Story - David M. Rubenstein 2019-10-29
Co-founder of The Carlyle Group and patriotic philanthropist David M. Rubenstein takes readers on a sweeping journey across the grand arc of the American story through revealing conversations with our greatest historians. In these lively dialogues, the biggest names in American history explore the subjects they've come to so intimately know and understand. — David McCullough on John Adams — Jon Meacham on Thomas Jefferson — Ron Chernow on Alexander Hamilton — Walter Isaacson on Benjamin Franklin — Doris Kearns Goodwin on Abraham Lincoln — A. Scott Berg on Charles Lindbergh — Taylor Branch on Martin Luther King — Robert Caro on Lyndon B. Johnson — Bob Woodward on Richard Nixon — And many others, including a special conversation with Chief Justice John Roberts Through his

popular program The David Rubenstein Show, David Rubenstein has established himself as one of our most thoughtful interviewers. Now, in *The American Story*, David captures the brilliance of our most esteemed historians, as well as the souls of their subjects. The book features introductions by Rubenstein as well a foreword by Librarian of Congress Carla Hayden, the first woman and the first African American to lead our national library. Richly illustrated with archival images from the Library of Congress, the book is destined to become a classic for serious readers of American history. Through these captivating exchanges, these bestselling and Pulitzer Prize-winning authors offer fresh insight on pivotal moments from the Founding Era to the late 20th century.

The Coroner's Lunch - Colin Cotterill 2017-11-14
Laos, 1978: Dr. Siri Paiboun, a 72-

year-old medical doctor, has unwillingly been appointed the national coroner of the new socialist Laos. His lab is underfunded, his boss is incompetent, and his support staff is quirky, to say the least. But Siri's sense of humor gets him through his often frustrating days. When the body of the wife of a prominent politician comes through his morgue, Siri has reason to suspect the woman has been murdered. To get to the truth, Siri and his team face government secrets, spying neighbors, victim hauntings, Hmong shamans, botched romances, and other deadly dangers. Somehow, Siri must figure out a way to balance the will of the party and the will of the dead.

The Reluctant Mr. Darwin: An Intimate Portrait of Charles Darwin and the Making of His Theory of Evolution (Great Discoveries) - David Quammen 2007-07-17

Traces the twenty-one-year period between Charles Darwin's original idea about natural selection and the publication of "On the Origin of Species," in an account that offers insight into his experiences as a cautious naturalist.

The Pandemic Century - Mark Honigsbaum 2020-06-04

A Financial Times Best Book of the Year The most timely and informative history book you will read this year, tracing a century of pandemics, with a new chapter on COVID-19. Ever since the 1918 Spanish influenza pandemic, scientists have dreamed of preventing catastrophic outbreaks of infectious disease. Yet, despite a century of medical progress, viral and bacterial disasters continue to take us by surprise, inciting panic and dominating news cycles. From the Spanish flu and the 1924 outbreak of pneumonic plague in Los Angeles, to the 1930 'parrot fever' pandemic and

the more recent SARS, Ebola, Zika and - now - COVID-19 epidemics, the last 100 years have been marked by a succession of unanticipated pandemic alarms. In *The Pandemic Century*, Mark Honigsbaum chronicles 100 years of history in 10 outbreaks. Bringing us right up-to-date with a new chapter on COVID-19, this fast-paced, critically-acclaimed book combines science history, medical sociology and thrilling front-line reportage to deliver the story of our times. As we meet dedicated disease detectives, obstructive public health officials, and gifted scientists often blinded by their own expertise, we come face-to-face with the brilliance and medical hubris shaping both the frontier of science - and the future of humanity's survival.

DNA Nation - Sergio Pistoï
2019-10-20

Millions of people have done it: with a few clicks and some spit, and at less than the cost of a fancy

dinner, you can buy a reading of your DNA online. With this in hand, you can find out where you came from, trace relatives around the world and find new friends on a genetic social network. You can learn about your predisposition to disease, get a genetically tailored diet, understand the sports to which you or your children might be more suited, and even find a date. It's the dawn of consumer genomics, where the progress of biology meets the power of the Internet and big data. But do these applications work? Can we really prevent diseases based on what we read in our DNA? What do scientists say? And do we really understand the implications? What happens if things go wrong and the data is misused or the trust abused? Sergio Pistoï, a journalist and a DNA scientist, investigated this brave new world first-hand by interrogating his own genes, and has provided a practical,

informative and thought-provoking survival guide to home genetic testing. From medicine to food, from social networking to genealogy and advertising, this book will show you how the DNA revolution is beginning to have such a profound impact on our daily lives and privacy and why it will influence the choices we make. If you are interested in how social media meets cutting-edge science, and what it means for your life, or if you are considering buying a DNA test, then this is the book for you.

How to Prevent the Next Pandemic - Bill Gates 2022-05-03

From the author of the #1 New York Times best seller *How to Avoid a Climate Disaster: The COVID-19 pandemic isn't over*, but even as governments around the world strive to put it behind us, they're also starting to talk about what happens next. How can we prevent a new pandemic from killing millions of people

and devastating the global economy? Can we even hope to accomplish this? Bill Gates believes the answer is yes, and in this book he lays out clearly and convincingly what the world should have learned from COVID-19 and what all of us can do to ward off another disaster like it. Relying on the shared knowledge of the world's foremost experts and on his own experience of combating fatal diseases through the Gates Foundation, he first helps us understand the science of infectious diseases. Then he shows us how the nations of the world, working in conjunction with one another and with the private sector, can not only ward off another COVID-like catastrophe but also eliminate all respiratory diseases, including the flu. Here is a clarion call—strong, comprehensive, and of the gravest importance—from one of our greatest and most effective thinkers and activists.

The Chickens Fight Back - David Waltner-Toews 2009-03-01

If you have any interest at all in epidemiology, modern medicine, or the survival of the human race, do read *The Chickens Fight Back* —Georgia Straight

Emerging diseases like mad cow, SARS, and avian flu are — for the moment, at least — far more prevalent in animals than in humans. Still, the knowledge that measles, TB, and smallpox were at one time “emerging” diseases that eventually made a permanent, and quite deadly, jump to humans gives epidemiologists pause. This book examines the various groups of animal diseases, explains what attracts them to the human population — from food to sex to living conditions — and offers suggestions for keeping them at bay. It also points out that diseases must be looked at from an ecological, cultural, and economic point of view as well as from a biological standpoint. Cooking

meat till its well done and slathering on insect repellent for a hike in the woods are effective preventative measures, but as the author notes, it’s more important to fundamentally rethink humankind’s place in the world.

Zoonoses - Rolf Bauerfeind
2020-07-24

Zoonoses are a persistent threat to the global human health Today, more than 200 diseases occurring in humans and animals are known to be mutually transmitted. Classical infectious diseases, such as rabies, plague, and yellow fever, have not been eradicated despite major efforts. New zoonotic diseases are on the increase due global conditions such as overpopulation, wars, and food scarcity, which facilitate human contact with rodents, stray animals, and their parasites. In addition, humans are unwittingly becoming accidental hosts and new links in an infectious chain by engaging in activities such as survival

training, which involves camping in open areas and consumption of raw or insufficiently cooked food. Zoonotic infections cause a variety of symptoms that often do not provide clear evidence of a known disease. *Zoonoses*, Fourth Edition, describes most occurring worldwide zoonosis and facilitates the identification, diagnosis and treatment of zoonotic infections. Written by a team of doctors, medical microbiologists and veterinarians, this completely revised edition covers all aspects of the epidemiology and prevention of zoonotic diseases through clear descriptions of various illnesses. Specifically, this fourth edition covers zoonosis caused by viruses, bacteria, fungi and parasites infections caused by animal bites infections and intoxications by animal foods. Iatrogenic transmission of zoonotic pathogens *Zoonoses* is an indispensable reference for clinicians and laboratorians.

A Planet of Viruses - Carl Zimmer 2015-10-06

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.

Open and Unabashed Reviews on Spillover - Michael Maxey
2013-03

In this book, we have hand-picked the most sophisticated, unanticipated, absorbing (if not at times crackpot!), original and musing book reviews of "Spillover: Animal Infections and the Next Human Pandemic." Don't say we didn't warn you: these reviews are known to shock with their unconventionality or intimacy. Some may be startled by their biting sincerity; others may be spellbound by their unbridled flights of fantasy. Don't buy this

book if: 1. You don't have nerves of steel. 2. You expect to get pregnant in the next five minutes. 3. You've heard it all.

Wild Thoughts from Wild Places

- David Quammen 2012-10-16
In *Wild Thoughts from Wild Places*, award-winning journalist David Quammen reminds us why he has become one of our most beloved science and nature writers. This collection of twenty-three of Quammen's most intriguing, most exciting, most memorable pieces takes us to meet kayakers on the Futaleufu River of southern Chile, where Quammen describes how it feels to travel in fast company and flail for survival in the river's maw. We are introduced to the commerce in pearls (and black-market parrots) in the Aru Islands of eastern Indonesia. Quammen even finds wildness in smog-choked Los Angeles -- embodied in an elusive population of urban coyotes, too stubborn and too

clever to surrender to the sprawl of civilization. With humor and intelligence, David Quammen's *Wild Thoughts from Wild Places* also reminds us that humans are just one of the many species on earth with motivations, goals, quirks, and eccentricities. Expect to be entertained and moved on this journey through the wilds of science and nature.

One Health - Ronald M. Atlas
2014-03-03

Emerging infectious diseases are often due to environmental disruption, which exposes microbes to a different niche that selects for new virulence traits and facilitates transmission between animals and humans. Thus, health of humans also depends upon health of animals and the environment – a concept called One Health. This book presents core concepts, compelling evidence, successful applications, and remaining challenges of One Health approaches to thwarting the

threat of emerging infectious disease. Written by scientists working in the field, this book will provide a series of "stories" about how disruption of the environment and transmission from animal hosts is responsible for emerging human and animal diseases. Explains the concept of One Health and the history of the One Health paradigm shift. Traces the emergence of devastating new diseases in both animals and humans. Presents case histories of notable, new zoonoses, including West Nile virus, hantavirus, Lyme disease, SARS, and salmonella. Links several epidemic zoonoses with the environmental factors that promote them. Offers insight into the mechanisms of microbial evolution toward pathogenicity. Discusses the many causes behind the emergence of antibiotic resistance. Presents new technologies and approaches for public health disease surveillance. Offers political and bureaucratic

strategies for promoting the global acceptance of One Health.

Deadliest Enemy - Mark

Olshaker 2017-03-14

A leading epidemiologist shares his "powerful and necessary" (Richard Preston, author of *The Hot Zone*) stories from the front lines of our war on infectious diseases and explains how to prepare for global epidemics -- featuring a new preface on COVID-19. Unlike natural disasters, whose destruction is concentrated in a limited area over a period of days, and illnesses, which have devastating effects but are limited to individuals and their families, infectious disease has the terrifying power to disrupt everyday life on a global scale, overwhelming public and private resources and bringing trade and transportation to a grinding halt. In today's world, it's easier than ever to move people, animals, and materials around the planet, but the same

advances that make modern infrastructure so efficient have made epidemics and even pandemics nearly inevitable. And as outbreaks of COVID-19, Ebola, MERS, and Zika have demonstrated, we are woefully underprepared to deal with the fallout. So what can -- and must -- we do in order to protect ourselves from mankind's deadliest enemy? Drawing on the latest medical science, case studies, policy research, and hard-earned epidemiological lessons, *Deadliest Enemy* explores the resources and programs we need to develop if we are to keep ourselves safe from infectious disease. The authors show how we could wake up to a reality in which many antibiotics no longer cure, bioterror is a certainty, and the threat of a disastrous influenza or coronavirus pandemic looms ever larger. Only by understanding the challenges we face can we prevent the unthinkable from

becoming the inevitable. *Deadliest Enemy* is high scientific drama, a chronicle of medical mystery and discovery, a reality check, and a practical plan of action.

The Song of the Dodo - David Quammen 1997-04-14

Takes a close-up look at island biogeography, the science of the geographic distribution of life on islands, and its significance in terms of evolution and extinction

The Cobra Event - Richard Preston 1998-08-29

“One of those books you literally can’t put down . . . makes *The Hot Zone* virus—far away in a rainforest—look like no big deal.”—Detroit Free Press Five days ago, a homeless man on a subway platform died in agony as startled commuters looked on. Yesterday, a teenager started having violent, uncontrollable spasms in art class. Within minutes, she too was dead. Dr. Alice Austen is a medical pathologist at the Centers for

Disease Control in Atlanta. What she knows is that the two deaths are connected. What she fears is that they are only the beginning. . . . “Manages to grab you with the authenticity of its scientific detective work and haunt you with its sheer plausibility.”—Entertainment Weekly

The Animal Dialogues - Craig Childs 2007-12-12

From one of the finest nature writers at work in America today—a lyrical, dramatic, illuminating tour of the hidden domain of wild animals. Whether recalling the experience of being chased through the Grand Canyon by a bighorn sheep, swimming with sharks off the coast of British Columbia, watching a peregrine falcon perform acrobatic stunts at 200 miles per hour, or engaging in a tense face-off with a mountain lion near a desert waterhole, Craig Childs captures the moment so vividly that he puts

the reader in his boots. Each of the forty brief, compelling narratives in *The Animal Dialogs* focuses on the author's own encounter with a particular species and is replete with astonishing facts about the species' behavior, habitat, breeding, and lifespan. But the glory of each essay lies in Childs's ability to portray the sometimes brutal beauty of the wilderness, to capture the individual essence of wild creatures, to transport the reader beyond the human realm and deep inside the animal kingdom

The Ethnobotany of Eden -

Robert A. Voeks 2018-06-27

In the mysterious and pristine forests of the tropics, a wealth of ethnobotanical panaceas and shamanic knowledge promises cures for everything from cancer and AIDS to the common cold. To access such miracles, we need only to discover and protect these medicinal treasures before they succumb to the corrosive forces of

the modern world. A compelling biocultural story, certainly, and a popular perspective on the lands and peoples of equatorial latitudes—but true? Only in part. In *The Ethnobotany of Eden*, geographer Robert A. Voeks unravels the long lianas of history and occasional strands of truth that gave rise to this irresistible jungle medicine narrative. By exploring the interconnected worlds of anthropology, botany, and geography, Voeks shows that well-intentioned scientists and environmentalists originally crafted the jungle narrative with the primary goal of saving the world's tropical rainforests from destruction. It was a strategy deployed to address a pressing environmental problem, one that appeared at a propitious point in history just as the Western world was taking a more globalized view of environmental issues. And yet, although supported by science and its practitioners, the

story was also underpinned by a persuasive mix of myth, sentimentality, and nostalgia for a long-lost tropical Eden.

Resurrecting the fascinating history of plant prospecting in the tropics, from the colonial era to the present day, *The Ethnobotany of Eden* rewrites with modern science the degradation narrative we've built up around tropical forests, revealing the entangled origins of our fables of forest cures.

[Wildlife and Emerging Zoonotic Diseases: The Biology, Circumstances and Consequences of Cross-Species Transmission](#) - James E. Childs 2007-07-23

This volume offers an overview of the processes of zoonotic viral emergence, the intricacies of host/virus interactions, and the role of biological transitions and modifying factors. The themes introduced here are amplified and explored in detail by the contributing authors, who explore the mechanisms and

unique circumstances by which evolution, biology, history, and current context have contrived to drive the emergence of different zoonotic agents by a series of related events.

Spillover - David Quammen
2012-10-04

Read this gripping, timely book about the transmission of deadly viruses from animal to human populations, and how we can fight the current Covid-19 pandemic. WITH A NEW AFTERWORD ON CORONAVIRUS As globalization spreads and as we destroy the ancient ecosystems, we encounter strange and dangerous infections that originate in animals but that can be transmitted to humans. Diseases that were contained are being set free and the results are potentially catastrophic. In a journey that takes him from southern China to the Congo, from Bangladesh to Australia, David Quammen tracks these

infections to their source, and asks what we can do to prevent some new pandemic spreading across the face of the earth. As we continue to feel the global impact of Covid-19, discover the book that predicted this viral disaster and the science that could stop the next one in its tracks. 'A tremendous book...this gives you all you need to know and all you should know' Sunday Times 'Chilling... [A] brilliant, devastating book' Daily Mail 'A frightening and fascinating masterpiece of science reporting that reads like a detective story'

Walter Isaacson

The Hot Zone - Richard Preston
2012-03-14

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.

The Chimp and the River -

David Quammen 2015-05-01

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 chimp 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.

Viruses - Michael G. Cordingley
2017-06-19

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.

Blood Line - David Quammen
1988

Three stories deal with a hunting trip, a young man's attempt to accept his father's suicide, and memories of the Civil War
Spillover - David Quammen
2020-02

Korean edition of [Spillover: Animal Infections and the Next Human Pandemic] by David Quammen. The next big human pandemic is likely to be caused by a new virus coming to humans from wildlife. Experts call such an event "spillover" and they warn us to brace ourselves. David Quammen has tracked this subject from Central Africa, Bangladesh, and southern China to the laboratories where researchers work in space suits to study lethal viruses. He illuminates the dynamics of Ebola, SARS, bird flu, Lyme disease, and other emerging

threats and tells the story of AIDS and its origins as it has never before been told. Korean edition translated by Gang Byeong Cheol.

The Song Of The Dodo - David Quammen 2012-03-31

Why have island ecosystems always suffered such high rates of extinction? In our age, with all the world's landscapes, from Tasmania to the Amazon to Yellowstone, now being carved into island-like fragments by human activity, the implications of this question are more urgent than ever. Over the past eight years, David Quammen has followed the threads of island biogeography on a globe-encircling journey of discovery.

Sustaining Global Surveillance and Response to Emerging

Zoonotic Diseases - National Research Council 2010-01-24
H1N1 ("swine flu"), SARS, mad cow disease, and HIV/AIDS are a few examples of zoonotic diseases-diseases transmitted

between humans and animals. Zoonotic diseases are a growing concern given multiple factors: their often novel and unpredictable nature, their ability to emerge anywhere and spread rapidly around the globe, and their major economic toll on several disparate industries. Infectious disease surveillance systems are used to detect this threat to human and animal health. By systematically collecting data on the occurrence of infectious diseases in humans and animals, investigators can track the spread of disease and provide an early warning to human and animal health officials, nationally and internationally, for follow-up and response. Unfortunately, and for many reasons, current disease surveillance has been ineffective or untimely in alerting officials to emerging zoonotic diseases. Sustaining Global Surveillance and Response to Emerging Zoonotic Diseases assesses some of

the disease surveillance systems around the world, and recommends ways to improve early detection and response. The book presents solutions for improved coordination between human and animal health sectors, and among governments and international organizations. Parties seeking to improve the detection and response to zoonotic diseases—including U.S. government and international health policy makers, researchers, epidemiologists, human health clinicians, and veterinarians—can use this book to help curtail the threat zoonotic diseases pose to economies, societies, and health.

Spillover - David Quammen
2013-09-10

A masterpiece of science reporting that tracks the animal origins of emerging human diseases, *Spillover* is “fascinating and terrifying ... a real-life thriller with an outcome that affects us all” (Elizabeth Kolbert,

author of *The Sixth Extinction*).

In 2020, the novel coronavirus gripped the world in a global pandemic and led to the death of hundreds of thousands. The source of the previously unknown virus? Bats. This phenomenon—in which a new pathogen comes to humans from wildlife—is known as spillover, and it may not be long before it happens again. Prior to the emergence of our latest health crisis, renowned science writer David Quammen was traveling the globe to better understand spillover’s devastating potential. For five years he followed scientists to a rooftop in Bangladesh, a forest in the Congo, a Chinese rat farm, and a suburban woodland in New York, and through high-biosecurity laboratories. He interviewed survivors and gathered stories of the dead. He found surprises in the latest research, alarm among public health officials, and deep concern

in the eyes of researchers. Spillover delivers the science, the history, the mystery, and the human anguish of disease outbreaks as gripping drama. And it asks questions more urgent now than ever before: From what innocent creature, in what remote landscape, will the Next Big One emerge? Are pandemics independent misfortunes, or linked? Are they merely happening to us, or are we somehow causing them? What can be done? Quammen traces the origins of Ebola, Marburg, SARS, avian influenza, Lyme disease, and other bizarre cases of spillover, including the grim, unexpected story of how AIDS began from a single Cameroonian chimpanzee. The result is more than a clarion work of reportage. It's also the elegantly told tale of a quest, through time and landscape, for a new understanding of how our world works—and how we can survive within it.

The Wordy Shipmates - Sarah Vowell 2009-10-06

In this New York Times bestseller, the author of Lafayette in the Somewhat United States "brings the [Puritan] era wickedly to life" (Washington Post). To this day, America views itself as a Puritan nation, but Sarah Vowell investigates what that means—and what it should mean. What she discovers is something far different from what their uptight shoebuckles-and-corn reputation might suggest—a highly literate, deeply principled, and surprisingly feisty people, whose story is filled with pamphlet feuds, witty courtroom dramas, and bloody vengeance. Vowell takes us from the modern-day reenactment of an Indian massacre to the Mohegan Sun casino, from old-timey Puritan poetry, where "righteousness" is rhymed with "wilderness," to a Mayflower-themed waterslide. Throughout, *The Wordy Shipmates* is rich in

historical fact, humorous insight, and social commentary by one of America's most celebrated voices.