

# The Vaccine Race Science Politics And The Human Costs Of Defeating Disease

Vaccine Court Intelligence, Genes, and Success Why Trust Science? Power, Sex, Suicide Race to the Bottom The Vaccine Race On Immunity Why I'm No Longer Talking to White People About Race Between Hope and Fear: A History of Vaccines and Human Immunity Fatal Invention Is Science Racist? Vaccine Epidemic White Identity Politics Stuck The Immortal Life of Henrietta Lacks Polio Medical Apartheid A Troublesome Inheritance Dangerously Divided Pandora's Lab Adverse Events Politics Is for Power Jonas Salk Big Shot Passion, Politics, and the Struggle for an AIDS Vaccine Plague The Great Influenza AIDS Between Science and Politics Superior Not a Scientist: How Politicians Mistake, Misrepresent, and Utterly Mangle Science The Vaccine Race Anti/Vax House on Fire The Next Great Migration The Cutter Incident And The Band Played on Immunization The Private Science of Louis Pasteur The Vaccine Race

## Vaquita

Race, more than class or any other factor, determines who wins and who loses in American democracy.

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## **Vaccine Court**

The so-called vaccine court is a small special court in the United States Court of Federal Claims that handles controversial claims that a vaccine has harmed someone. While vaccines in general are extremely safe and effective, some people still suffer severe vaccine reactions and bring their claims to vaccine court. In this court, lawyers, activists, judges, doctors, and scientists come together, sometimes arguing bitterly, trying to figure out whether a vaccine really caused a person's medical problem. In Vaccine Court, Anna Kirkland draws on the trials of the vaccine court to explore how legal institutions resolve complex scientific questions. What are vaccine injuries, and how do we come to recognize them? What does it mean to transform these questions into a legal problem and funnel them through a special national vaccine court, as we do in the U.S.? What does justice require for vaccine injury claims, and how can we deliver it? These are highly contested questions, and the terms in which they have been debated over the last forty years are highly revealing of deeper fissures in our society over motherhood, community, health, harm, and trust in authority. While many scholars argue that it's foolish to let judges and lawyers decide medical claims about vaccines, Kirkland argues that our political and legal response to vaccine injury claims shows how well legal institutions can handle specialized scientific matters. Vaccine Court is an accessible and thorough account of what the vaccine court is, why we have it, and what it does.

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### **Intelligence, Genes, and Success**

From the era of slavery to the present day, the first full history of black America's shocking mistreatment as unwilling and unwitting experimental subjects at the hands of the medical establishment. Medical Apartheid is the first and only comprehensive history of medical experimentation on African Americans. Starting with the earliest encounters between black Americans and Western medical researchers and the racist pseudoscience that resulted, it details the ways both slaves and freedmen were used in hospitals for experiments conducted without their knowledge—a tradition that continues today within some black populations. It reveals how blacks have historically been prey to grave-robbing as well as unauthorized autopsies and dissections. Moving into the twentieth century, it shows how the pseudoscience of eugenics and social Darwinism was used to justify experimental exploitation and shoddy medical treatment of blacks, and the view that they were biologically inferior, oversexed, and unfit for adult responsibilities. Shocking new details about the government's notorious Tuskegee experiment are revealed, as are similar, less-well-known medical atrocities conducted by the government, the armed forces, prisons, and private institutions. The product of years of prodigious research into medical journals and experimental reports long undisturbed, Medical Apartheid reveals the hidden underbelly of scientific research and makes possible, for the first time, an understanding of the roots of the African American health deficit. At last, it provides the fullest possible context for

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comprehending the behavioral fallout that has caused black Americans to view researchers—and indeed the whole medical establishment—with such deep distrust. No one concerned with issues of public health and racial justice can afford not to read *Medical Apartheid*, a masterful book that will stir up both controversy and long-needed debate.

### **Why Trust Science?**

**\*\*SHORTLISTED FOR THE WELLCOME BOOK PRIZE 2018 \*\* \*\* A GUARDIAN SCIENCE BOOK OF THE YEAR 2017 \*\*** ‘Riveting invites comparison to Rebecca Skloot's *The Immortal Life of Henrietta Lacks*’ *Nature* The epic and controversial story of a major breakthrough in cell biology that led to the conquest of rubella and other devastating diseases. Until the late 1960s, tens of thousands of children suffered crippling birth defects if their mothers had been exposed to rubella, popularly known as German measles, while pregnant. There was no vaccine and little understanding of how the disease devastated fetuses. In June 1962, a young biologist in Philadelphia produced the first safe, clean cells that made possible the mass-production of vaccines against many common childhood diseases. Two years later, in the midst of a German measles epidemic, his colleague developed the vaccine that would one day effectively wipe out rubella for good. This vaccine - and others made with those cells - have since protected hundreds of millions of people worldwide, the vast majority of them preschool children. Meredith Wadman's

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account of this great leap forward in medicine is a fascinating and revelatory read.

### **Power, Sex, Suicide**

A New York Times Best Seller A National Book Critics Circle Award Finalist A New York Times Book Review Top 10 Book of the Year A Facebook "Year of Books" Selection One of the Best Books of the Year \* National Book Critics Circle Award finalist \* The New York Times Book Review (Top 10) \* Entertainment Weekly (Top 10) \* New York Magazine (Top 10)\* Chicago Tribune (Top 10) \* Publishers Weekly (Top 10) \* Time Out New York (Top 10) \* Los Angeles Times \* Kirkus \* Booklist \* NPR's Science Friday \* Newsday \* Slate \* Refinery 29 \* And many more Why do we fear vaccines? A provocative examination by Eula Biss, the author of Notes from No Man's Land, winner of the National Book Critics Circle Award Upon becoming a new mother, Eula Biss addresses a chronic condition of fear-fear of the government, the medical establishment, and what is in your child's air, food, mattress, medicine, and vaccines. She finds that you cannot immunize your child, or yourself, from the world. In this bold, fascinating book, Biss investigates the metaphors and myths surrounding our conception of immunity and its implications for the individual and the social body. As she hears more and more fears about vaccines, Biss researches what they mean for her own child, her immediate community, America, and the world, both historically and in the present moment. She extends a conversation with other mothers to meditations on Voltaire's Candide, Bram Stoker's Dracula,

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Rachel Carson's *Silent Spring*, Susan Sontag's *AIDS and Its Metaphors*, and beyond. *On Immunity* is a moving account of how we are all interconnected—our bodies and our fates.

### **Race to the Bottom**

A definitive history of vaccination ranges from Edward Jenner's 1796 creation of the world's first smallpox inoculation to the present day, looking at both the benefits of vaccination as well as the current controversy over their potential neurological side effects and the pharmaceutical companies' emphasis on treatment rather than prevention.

### **The Vaccine Race**

What happens when ideas presented as science lead us in the wrong direction? History is filled with brilliant ideas that gave rise to disaster, and this book explores the most fascinating—and significant—missteps: from opium's heyday as the pain reliever of choice to recognition of opioids as a major cause of death in the U.S.; from the rise of trans fats as the golden ingredient for tastier, cheaper food to the heart disease epidemic that followed; and from the cries to ban DDT for the sake of the environment to an epidemic-level rise in world malaria. These are today's sins

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of science—as deplorable as mistaken past ideas about advocating racial purity or using lobotomies as a cure for mental illness. These unwitting errors add up to seven lessons both cautionary and profound, narrated by renowned author and speaker Paul A. Offit. Offit uses these lessons to investigate how we can separate good science from bad, using some of today's most controversial creations—e-cigarettes, GMOs, drug treatments for ADHD—as case studies. For every "Aha!" moment that should have been an "Oh no," this book is an engrossing account of how science has been misused disastrously—and how we can learn to use its power for good.

### **On Immunity**

An examination of the AIDS crisis exposes the federal government for its inaction, health authorities for their greed, and scientists for their desire for prestige in the face of the AIDS pandemic.

### **Why I'm No Longer Talking to White People About Race**

A prize-winning journalist upends our centuries-long assumptions about migration through science, history, and reporting--predicting its lifesaving power in the face of climate change. The news today is full of stories of dislocated people on the

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move. Wild species, too, are escaping warming seas and desiccated lands, creeping, swimming, and flying in a mass exodus from their past habitats. News media presents this scrambling of the planet's migration patterns as unprecedented, provoking fears of the spread of disease and conflict and waves of anxiety across the Western world. On both sides of the Atlantic, experts issue alarmed predictions of millions of invading aliens, unstoppable as an advancing tsunami, and countries respond by electing anti-immigration leaders who slam closed borders that were historically porous. But the science and history of migration in animals, plants, and humans tell a different story. Far from being a disruptive behavior to be quelled at any cost, migration is an ancient and lifesaving response to environmental change, a biological imperative as necessary as breathing. Climate changes triggered the first human migrations out of Africa. Falling sea levels allowed our passage across the Bering Sea. Unhampered by barbed wire, migration allowed our ancestors to people the planet, catapulting us into the highest reaches of the Himalayan mountains and the most remote islands of the Pacific, creating and disseminating the biological, cultural, and social diversity that ecosystems and societies depend upon. In other words, migration is not the crisis--it is the solution. Conclusively tracking the history of misinformation from the 18th century through today's anti-immigration policies, *The Next Great Migration* makes the case for a future in which migration is not a source of fear, but of hope.

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### **Between Hope and Fear: A History of Vaccines and Human Immunity**

'Every voice raised against racism chips away at its power. We can't afford to stay silent. This book is an attempt to speak' The book that sparked a national conversation. Exploring everything from eradicated black history to the inextricable link between class and race, Why I'm No Longer Talking to White People About Race is the essential handbook for anyone who wants to understand race relations in Britain today. THE NO.1 SUNDAY TIMES BESTSELLER WINNER OF THE BRITISH BOOK AWARDS NON-FICTION NARRATIVE BOOK OF THE YEAR 2018 FOYLES NON-FICTION BOOK OF THE YEAR BLACKWELL'S NON-FICTION BOOK OF THE YEAR WINNER OF THE JHALAK PRIZE LONGLISTED FOR THE BAILLIE GIFFORD PRIZE FOR NON-FICTION LONGLISTED FOR THE ORWELL PRIZE SHORTLISTED FOR A BOOKS ARE MY BAG READERS AWARD

### **Fatal Invention**

A scientific response to the best-selling The Bell Curve which set off a hailstorm of controversy upon its publication in 1994. Much of the public reaction to the book was polemic and failed to analyse the details of the science and validity of the statistical arguments underlying the books conclusion. Here, at last, social

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scientists and statisticians reply to The Bell Curve and its conclusions about IQ, genetics and social outcomes.

### **Is Science Racist?**

A history of the 1950s polio epidemic that caused panic in the United States examines the competition between Salk and Sabin to find the first vaccine and its implications for such issues as government testing of new drugs and manufacturers' liability.

### **Vaccine**

Mitochondria are tiny structures located inside our cells that carry out the essential task of producing energy for the cell. They are found in all complex living things, and in that sense, they are fundamental for driving complex life on the planet. But there is much more to them than that. Mitochondria have their own DNA, with their own small collection of genes, separate from those in the cell nucleus. It is thought that they were once bacteria living independent lives. Their enslavement within the larger cell was a turning point in the evolution of life, enabling the development of complex organisms and, closely related, the origin of two sexes. Unlike the DNA in the nucleus, mitochondrial DNA is passed down exclusively (or

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almost exclusively) via the female line. That's why it has been used by some researchers to trace human ancestry daughter-to-mother, to 'Mitochondrial Eve'. Mitochondria give us important information about our evolutionary history. And that's not all. Mitochondrial genes mutate much faster than those in the nucleus because of the free radicals produced in their energy-generating role. This high mutation rate lies behind our ageing and certain congenital diseases. The latest research suggests that mitochondria play a key role in degenerative diseases such as cancer, through their involvement in precipitating cell suicide. Mitochondria, then, are pivotal in power, sex, and suicide. In this fascinating and thought-provoking book, Nick Lane brings together the latest research findings in this exciting field to show how our growing understanding of mitochondria is shedding light on how complex life evolved, why sex arose (why don't we just bud?), and why we age and die. This understanding is of fundamental importance, both in understanding how we and all other complex life came to be, but also in order to be able to control our own illnesses, and delay our degeneration and death. Oxford Landmark Science books are 'must-read' classics of modern science writing which have crystallized big ideas, and shaped the way we think.

### **Vaccine Epidemic**

Antivaxxers are crazy. That is the perception we all gain from the media, the internet, celebrities, and beyond, writes Bernice Hausman in *Anti/Vax*, but we need

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to open our eyes and ears so that we can all have a better conversation about vaccine skepticism and its implications. Hausman argues that the heated debate about vaccinations and whether to get them or not is most often fueled by accusations and vilifications rather than careful attention to the real concerns of many Americans. She wants to set the record straight about vaccine skepticism and show how the issues and ideas that motivate it—like suspicion of pharmaceutical companies or the belief that some illness is necessary to good health—are commonplace in our society. Through *Anti/Vax*, Hausman wants to engage public health officials, the media, and each of us in a public dialogue about the relation of individual bodily autonomy to the state's responsibility to safeguard citizens' health. We need to know more about the position of each side in this important stand-off so that public decisions are made through understanding rather than stereotyped perceptions of scientifically illiterate antivaxxers or faceless bureaucrats. Hausman reveals that vaccine skepticism is, in part, a critique of medicalization and a warning about the dangers of modern medicine rather than a glib and gullible reaction to scaremongering and misunderstanding.

### **White Identity Politics**

Why the social character of scientific knowledge makes it trustworthy Are doctors right when they tell us vaccines are safe? Should we take climate experts at their word when they warn us about the perils of global warming? Why should we trust

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science when so many of our political leaders don't? Naomi Oreskes offers a bold and compelling defense of science, revealing why the social character of scientific knowledge is its greatest strength—and the greatest reason we can trust it. Tracing the history and philosophy of science from the late nineteenth century to today, this timely and provocative book features a new preface by Oreskes and critical responses by climate experts Ottmar Edenhofer and Martin Kowarsch, political scientist Jon Krosnick, philosopher of science Marc Lange, and science historian Susan Lindee, as well as a foreword by political theorist Stephen Macedo.

### **Stuck**

"He first full biography of Jonas Salk offers a complete picture of the enigmatic figure, from his early years working on an influenza vaccine--for which he never fully got credit--to his seminal creation of the Polio vaccine, up through his later work to find a cure for AIDS"--

### **The Immortal Life of Henrietta Lacks**

Amidst discontent over America's growing diversity, many white Americans now view the political world through the lens of a racial identity. Whiteness was once thought to be invisible because of whites' dominant position and ability to claim

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the mainstream, but today a large portion of whites actively identify with their racial group and support policies and candidates that they view as protecting whites' power and status. In *White Identity Politics*, Ashley Jardina offers a landmark analysis of emerging patterns of white identity and collective political behavior, drawing on sweeping data. Where past research on whites' racial attitudes emphasized out-group hostility, Jardina brings into focus the significance of in-group identity and favoritism. *White Identity Politics* shows that disaffected whites are not just found among the working class; they make up a broad proportion of the American public - with profound implications for political behavior and the future of racial conflict in America.

### **Polio**

In *The Private Science of Louis Pasteur*, Gerald Geison has written a controversial biography that finally penetrates the secrecy that has surrounded much of this legendary scientist's laboratory work. Geison uses Pasteur's laboratory notebooks, made available only recently, and his published papers to present a rich and full account of some of the most famous episodes in the history of science and their darker sides--for example, Pasteur's rush to develop the rabies vaccine and the human risks his haste entailed. The discrepancies between the public record and the "private science" of Louis Pasteur tell us as much about the man as they do about the highly competitive and political world he learned to master. Although

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experimental ingenuity served Pasteur well, he also owed much of his success to the polemical virtuosity and political savvy that won him unprecedented financial support from the French state during the late nineteenth century. But a close look at his greatest achievements raises ethical issues. In the case of Pasteur's widely publicized anthrax vaccine, Geison reveals its initial defects and how Pasteur, in order to avoid embarrassment, secretly incorporated a rival colleague's findings to make his version of the vaccine work. Pasteur's premature decision to apply his rabies treatment to his first animal-bite victims raises even deeper questions and must be understood not only in terms of the ethics of human experimentation and scientific method, but also in light of Pasteur's shift from a biological theory of immunity to a chemical theory--similar to ones he had often disparaged when advanced by his competitors. Through his vivid reconstruction of the professional rivalries as well as the national adulation that surrounded Pasteur, Geison places him in his wider cultural context. In giving Pasteur the close scrutiny his fame and achievements deserve, Geison's book offers compelling reading for anyone interested in the social and ethical dimensions of science. Originally published in 1995. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton

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University Press since its founding in 1905.

## **Medical Apartheid**

"In this book the author argues that we focus on the use of negative racial appeals by the Republican Party, while ignoring the incentives that exist for some Democratic candidates to use race as much as, if not more than Republican candidates. The conventional wisdom is that a Democratic candidate would never be incentivized to invoke race and activate negative racial predispositions. Yet, according to the author, Democratic politicians regularly invoke negative stereotypes about African Americans. On numerous occasions President Obama, for example, publicly chastised black audiences. And, while it might seem surprising that a Democratic politician would use rhetoric that disparages their most loyal constituency, Obama is just one of many Democratic politicians who have been criticized for invoking negative stereotypes about African Americans for political gain. The author explores when and why politicians of both parties will use negative racial appeals"--

## **A Troublesome Inheritance**

On July 22, 2009, a special meeting was held with twenty-four leading scientists at

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the National Institutes of Health to discuss early findings that a newly discovered retrovirus was linked to chronic fatigue syndrome (CFS), prostate cancer, lymphoma, and eventually neurodevelopmental disorders in children. When Dr. Judy Mikovits finished her presentation the room was silent for a moment, then one of the scientists said, “Oh my God!” The resulting investigation would be like no other in science. For Dr. Mikovits, a twenty-year veteran of the National Cancer Institute, this was the midpoint of a five-year journey that would start with the founding of the Whittemore-Peterson Institute for Neuro-Immune Disease at the University of Nevada, Reno, and end with her as a witness for the federal government against her former employer, Harvey Whittemore, for illegal campaign contributions to Senate Majority Leader Harry Reid. On this journey Dr. Mikovits would face the scientific prejudices against CFS, wander into the minefield that is autism, and through it all struggle to maintain her faith in God and the profession to which she had dedicated her life. This is a story for anybody interested in the peril and promise of science at the very highest levels in our country.

### **Dangerously Divided**

An incisive, groundbreaking book that examines how a biological concept of race is a myth that promotes inequality in a supposedly “post-racial” era. Though the Human Genome Project proved that human beings are not naturally divided by race, the emerging fields of personalized medicine, reproductive technologies,

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genetic genealogy, and DNA databanks are attempting to resuscitate race as a biological category written in our genes. This groundbreaking book by legal scholar and social critic Dorothy Roberts examines how the myth of race as a biological concept—revived by purportedly cutting-edge science, race-specific drugs, genetic testing, and DNA databases—continues to undermine a just society and promote inequality in a supposedly “post-racial” era. Named one of the ten best black nonfiction books 2011 by AFRO.com, *Fatal Invention* offers a timely and “provocative analysis” (Nature) of race, science, and politics that “is consistently lucid . . . alarming but not alarmist, controversial but evidential, impassioned but rational” (Publishers Weekly, starred review). “Everyone concerned about social justice in America should read this powerful book.” —Anthony D. Romero, executive director, American Civil Liberties Union “A terribly important book on how the ‘fatal invention’ has terrifying effects in the post-genomic, ‘post-racial’ era.” —Eduardo Bonilla-Silva, professor of sociology, Duke University, and author of *Racism Without Racists: Color-Blind Racism and the Persistence of Racial Inequality in the United States* “Fatal Invention is a triumph! Race has always been an ill-defined amalgam of medical and cultural bias, thinly overlaid with the trappings of contemporary scientific thought. And no one has peeled back the layers of assumption and deception as lucidly as Dorothy Roberts.” —Harriet A. Washington, author of *and Deadly Monopolies: The Shocking Corporate Takeover of Life Itself*

**Pandora's Lab**

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Vaccines have saved more lives than any other single medical advance. Yet today only four companies make vaccines, and there is a growing crisis in vaccine availability. Why has this happened? This remarkable book recounts for the first time a devastating episode in 1955 at Cutter Laboratories in Berkeley, California, that has led many pharmaceutical companies to abandon vaccine manufacture. Drawing on interviews with public health officials, pharmaceutical company executives, attorneys, Cutter employees, and victims of the vaccine, as well as on previously unavailable archives, Dr. Paul Offit offers a full account of the Cutter disaster. He describes the nation's relief when the polio vaccine was developed by Jonas Salk in 1955, the production of the vaccine at industrial facilities such as the one operated by Cutter, and the tragedy that occurred when 200,000 people were inadvertently injected with live virulent polio virus: 70,000 became ill, 200 were permanently paralyzed, and 10 died. Dr. Offit also explores how, as a consequence of the tragedy, one jury's verdict set in motion events that eventually suppressed the production of vaccines already licensed and deterred the development of new vaccines that hold the promise of preventing other fatal diseases.

### **Adverse Events**

An account of the deadly influenza epidemic of 1918, which took the lives of millions of people around the world, examines its causes, its impact on early

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twentieth-century society, and the lasting implications of the crisis.

### **Politics Is for Power**

"The rubella vaccine and others made with fetal cells have protected more than 150 million people in the United States, the vast majority of them preschoolers. The new cells and the method of making them also led to vaccines that have protected billions of people around the world from polio, rabies, chicken pox, measles, hepatitis A, shingles, and adenovirus. Meredith Wadman's [book] covers not only the science of this [advancement], but also the political roadblocks that nearly stopped the scientists"--Provided by publisher.

### **Jonas Salk**

One of the most important tools in the public health arsenal, vaccines are to thank for the global eradication of smallpox, and for allowing us to defeat the dire threat of infectious disease for more than one hundred years. Vaccine development is where scientists turn when faced with the frightening spread of new diseases like Zika, SARS, and Ebola. So if vaccines have proven to be such an effective tool, why are growing numbers of people questioning the wisdom of vaccinating children? Why have public-sector vaccine producers almost vanished? And can we trust the

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multinational corporations that increasingly dominate vaccine development and production? In this highly original and controversial new book, Stuart Blume argues that processes of globalization and unmet healthcare needs are eroding faith in the institutions producing and providing vaccines. He brings together short, readable histories of immunization practices over the past century, from the work of early pioneers such as Louis Pasteur and Robert Koch to the establishment of the World Health Organization and the introduction of genetic engineered vaccines. Focusing on today's "vaccine hesitancy," the book exposes the inadequacies of public health persuasion, and discusses what will be needed to restore parents' confidence. This is a timely history, one that not only sheds new light on the origins of our global vaccine crisis, but also points a way forward.

### **Big Shot Passion, Politics, and the Struggle for an AIDS Vaccine**

Peter Piot, founding executive director of the Joint United Nations Programme on HIV/AIDS (UNAIDS), recounts his experience as a clinician, scientist, and activist fighting the disease from its earliest manifestation to today. The AIDS pandemic was not only catastrophic to the health of millions worldwide but also fractured international relations, global access to new technologies, and public health policies in nations across the globe. As he struggled to get ahead of the disease, Piot found science does little good when it operates independently of politics and economics, and politics is worthless if it rejects scientific evidence and respect for

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human rights. Piot describes how the epidemic altered global attitudes toward sexuality, the character of the doctor-patient relationship, the influence of civil society in international relations, and traditional partisan divides. AIDS thrust health into national and international politics where, he argues, it rightly belongs. The global reaction to AIDS over the past decade is the positive result of this partnership, showing what can be achieved when science, politics, and policy converge on the ground. Yet it remains a fragile achievement, and Piot warns against complacency and the consequences of reduced investments. He refuses to accept a world in which high levels of HIV infection are the norm. Instead, he explains how to continue to reduce the incidence of the disease to minute levels through both prevention and treatment, until a vaccine is discovered.

### **Plague**

Tells the story of the search for an AIDS vaccine by following scientists, business executives, and military officers whose lives become intertwined in the complex quest.

### **The Great Influenza**

An eye-opening tour of the political tricks that subvert scientific progress. The

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Butter-Up and Undercut. The Certain Uncertainty. The Straight-Up Fabrication. Dave Levitan dismantles all of these deceptive arguments, and many more, in this probing and hilarious examination of the ways our elected officials attack scientific findings that conflict with their political agendas. The next time you hear a politician say, "Well, I'm not a scientist, but..." you'll be ready.

### **AIDS Between Science and Politics**

Explores the social inequality of clinical drug testing and its effects on scientific results Imagine that you volunteer for the clinical trial of an experimental drug. The only direct benefit of participating is that you will receive up to \$5,175. You must spend twenty nights literally locked in a research facility. You will be told what to eat, when to eat, and when to sleep. You will share a bedroom with several strangers. Who are you, and why would you choose to take part in this kind of study? This book explores the hidden world of pharmaceutical testing on healthy volunteers. Drawing on two years of fieldwork in clinics across the country and 268 interviews with participants and staff, it illustrates how decisions to take part in such studies are often influenced by poverty and lack of employment opportunities. It shows that healthy participants are typically recruited from African American and Latino/a communities, and that they are often serial participants, who obtain a significant portion of their income from these trials. This book reveals not only how social inequality fundamentally shapes these drug trials, but it also

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depicts the important validity concerns inherent in this mode of testing new pharmaceuticals. These highly controlled studies bear little resemblance to real-world conditions, and everyone involved is incentivized to game the system, ultimately making new drugs appear safer than they really are. Adverse Events provides an unprecedented view of the intersection of racial inequalities with pharmaceutical testing, signaling the dangers of this research enterprise to both social justice and public health.

### **Superior**

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

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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. From the Trade Paperback edition.

## **Not a Scientist: How Politicians Mistake, Misrepresent, and Utterly Mangle Science**

In 2006, vaquita, a diminutive porpoise making its home in the Upper Gulf of California, inherited the dubious title of world's most endangered marine mammal. Nicknamed "panda of the sea" for their small size and beguiling facial markings, vaquitas have been in decline for decades, dying by the hundreds in gillnets intended for commercially valuable fish, as well as for an endangered fish called totoaba. When international crime cartels discovered a lucrative trade in the swim bladders of totoaba, illegal gillnetting went rampant, and now the lives of the few remaining vaquitas hang in the balance. Author Brooke Bessesen takes us on a journey to Mexico's Upper Gulf region to uncover the story. She interviewed townspeople, fishermen, scientists, and activists, teasing apart a complex story filled with villains and heroes, a story whose outcome is unclear. When diplomatic and political efforts to save the little porpoise failed, Bessesen followed a team of veterinary experts in a binational effort to capture the last remaining vaquitas and breed them in captivity—the best hope for their survival. In this fast-paced, soul-searing tale, she learned that there are no easy answers when extinction is profitable. Whether the rescue attempt succeeds or fails, the world must ask itself hard questions. When vaquita and the totoaba are gone, the black market will turn to the next vulnerable species. What will we do then?

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## **The Vaccine Race**

“Riveting . . . [The Vaccine Race] invites comparison with Rebecca Skloot's 2007 *The Immortal Life of Henrietta Lacks*.”—*Nature* “This is a story about the war against disease—a war without end—and the development of enormously important vaccines, but in telling that story, in showing how science works, Meredith Wadman reveals much more. I loved this book.” —John M. Barry, *New York Times* bestselling author of *The Great Influenza* The epic and controversial story of a major breakthrough in cell biology that led to the conquest of rubella and other devastating diseases. Until the late 1960s, tens of thousands of American children suffered crippling birth defects if their mothers had been exposed to rubella, popularly known as German measles, while pregnant; there was no vaccine and little understanding of how the disease devastated fetuses. In June 1962, a young biologist in Philadelphia, using tissue extracted from an aborted fetus from Sweden, produced safe, clean cells that allowed the creation of vaccines against rubella and other common childhood diseases. Two years later, in the midst of a devastating German measles epidemic, his colleague developed the vaccine that would one day wipe out homegrown rubella. The rubella vaccine and others made with those fetal cells have protected more than 150 million people in the United States, the vast majority of them preschoolers. The new cells and the method of making them also led to vaccines that have protected billions of people around the world from polio, rabies, chicken pox, measles, hepatitis A, shingles and

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adenovirus. Meredith Wadman's masterful account recovers not only the science of this urgent race, but also the political roadblocks that nearly stopped the scientists. She describes the terrible dilemmas of pregnant women exposed to German measles and recounts testing on infants, prisoners, orphans, and the intellectually disabled, which was common in the era. These events take place at the dawn of the battle over using human fetal tissue in research, during the arrival of big commerce in campus labs, and as huge changes take place in the laws and practices governing who "owns" research cells and the profits made from biological inventions. It is also the story of yet one more unrecognized woman whose cells have been used to save countless lives. With another frightening virus imperiling pregnant women on the rise today, no medical story could have more human drama, impact, or urgency today than *The Vaccine Race*.

### **Anti/Vax**

Vaccine reluctance and refusal are no longer limited to the margins of society. Debates around vaccines' necessity -- along with questions around their side effects -- have gone mainstream, blending with geopolitical conflicts, political campaigns, celebrity causes, and "natural" lifestyles to win a growing number of hearts and minds. Today's anti-vaccine positions find audiences where they've never existed previously. *Stuck* examines how the issues surrounding vaccine hesitancy are, more than anything, about people feeling left out of the

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conversation. A new dialogue is long overdue, one that addresses the many types of vaccine hesitancy and the social factors that perpetuate them. To do this, Stuck provides a clear-eyed examination of the social vectors that transmit vaccine rumors, their manifestations around the globe, and how these individual threads are all connected.

### **House on Fire**

A smart and compelling examination of the science of immunity, the public policy implications of vaccine denial, and the real-world outcomes of failing to vaccinate. If you have a child in school, you may have heard stories of long-dormant diseases suddenly reappearing—cases of measles, mumps, rubella, and whooping cough cropping up everywhere from elementary schools to Ivy League universities because a select group of parents refuse to vaccinate their children. Between Hope and Fear tells the remarkable story of vaccine-preventable infectious diseases and their social and political implications. While detailing the history of vaccine invention, Kinch reveals the ominous reality that our victories against vaccine-preventable diseases are not permanent—and could easily be undone. In the tradition of John Barry's *The Great Influenza* and Siddhartha Mukherjee's *The Emperor of All Maladies*, *Between Hope and Fear* relates the remarkable intersection of science, technology and disease that has helped eradicate many of the deadliest plagues known to man.

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## **The Next Great Migration**

“Bill Foege takes us inside the world's greatest public health triumph: the eradication of smallpox. It's a story of true determination, passion and courage. The story of smallpox should encourage all of us to continue the critical work of worldwide disease eradication.”--Bill Gates, Co-Chair of the Bill & Melinda Gates Foundation “Bill Foege is one of the public health giants of our times. He was responsible for the design of the campaign that eradicated smallpox—the most important global health achievement in history and possibly the greatest feat in any field of international cooperation. His insights into the nature of this major event will undoubtedly help to meet the global health challenges of the 21st century.”—Julio Frenk, M.D, PhD, Dean, Harvard School of Public Health “The eradication of a disease has long been the holy grail of global health and Bill Foege found it: more than any other person, he was responsible for the eradication of smallpox from the face of the earth. This is a story told by a remarkably humble man, about the extraordinary coalition that he helped to build, and the most impressive global health accomplishment the world has ever seen.”—Mark Rosenberg, author of Real Collaboration: What It Takes for Global Health to Succeed “I am thrilled that Bill Foege, one of the great heroes of the smallpox eradication campaign, has written this important book. It tells a beautiful human story of an incredible public health triumph, and is full of lessons that could be applied to many of the global challenges we face today.”—Helene D. Gayle MD,

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President and CEO, CARE USA “Bill Foege’s *House on Fire* is the first-hand account of how a revised strategy to eradicate smallpox was tested, validated, and applied. Without the global adoption of this new surveillance strategy, the final deathblow to this longtime global menace might never have been dealt.”—Adetokunbo O. Lucas, MD, DSc, author of *It Was The Best of Times: From Local to Global Health* “Smallpox is the most devastating disease the world has known, as it destroyed lives and shaped history over the centuries. *House on Fire* provides a day-to-day account by my friend Dr. Bill Foege of the battle required to defeat this wily and diabolic virus.”--President Jimmy Carter

### **The Cutter Incident**

Now an HBO® Film starring Oprah Winfrey and Rose Byrne #1 NEW YORK TIMES BESTSELLER Her name was Henrietta Lacks, but scientists know her as HeLa. She was a poor black tobacco farmer whose cells—taken without her knowledge in 1951—became one of the most important tools in medicine, vital for developing the polio vaccine, cloning, gene mapping, and more. Henrietta's cells have been bought and sold by the billions, yet she remains virtually unknown, and her family can't afford health insurance. This phenomenal New York Times bestseller tells a riveting story of the collision between ethics, race, and medicine; of scientific discovery and faith healing; and of a daughter consumed with questions about the mother she never knew.

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### **And The Band Played on**

Public health officials state that vaccines are safe and effective, but the truth is far more complicated. Vaccination is a serious medical intervention that always carries the potential to injure and cause death as well as to prevent disease. Coercive vaccination policies deprive people of free and informed consent—the hallmark of ethical medicine. Americans are increasingly concerned about vaccine safety and the right to make individual, informed choices together with their healthcare practitioners. Vaccine Epidemic focuses on the searing debate surrounding individual and parental vaccination choice in the United States. Habakus, Holland, and Rosenberg edit and introduce a diverse array of interrelated topics concerning the explosive vaccine controversy, including the ethics of vaccination mandates, corrupting conflicts of interest in the national vaccine program, and personal narratives of parents, children, and soldiers who have suffered vaccine injury. Newly updated with additional chapters focusing on institutional scientific misconduct, mandates for healthcare workers, concerns about HPV vaccine development, and the story behind the Supreme Court's recent vaccine decision, Vaccine Epidemic remains the essential handbook for the vaccination choice movement and required reading for all people contemplating vaccination for themselves and their children.

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## **Immunization**

2019 Best-Of Lists: 10 Best Science Books of the Year (Smithsonian Magazine) · Best Science Books of the Year (NPR's Science Friday) · Best Science and Technology Books from 2019” (Library Journal) An astute and timely examination of the re-emergence of scientific research into racial differences. Superior tells the disturbing story of the persistent thread of belief in biological racial differences in the world of science. After the horrors of the Nazi regime in World War II, the mainstream scientific world turned its back on eugenics and the study of racial difference. But a worldwide network of intellectual racists and segregationists quietly founded journals and funded research, providing the kind of shoddy studies that were ultimately cited in Richard Herrnstein and Charles Murray’s 1994 title *The Bell Curve*, which purported to show differences in intelligence among races. If the vast majority of scientists and scholars disavowed these ideas and considered race a social construct, it was an idea that still managed to somehow survive in the way scientists thought about human variation and genetics. Dissecting the statements and work of contemporary scientists studying human biodiversity, most of whom claim to be just following the data, Angela Saini shows us how, again and again, even mainstream scientists cling to the idea that race is biologically real. As our understanding of complex traits like intelligence, and the effects of environmental and cultural influences on human beings, from the molecular level on up, grows, the hope of finding simple genetic differences between “races”—to

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explain differing rates of disease, to explain poverty or test scores, or to justify cultural assumptions—stubbornly persists. At a time when racialized nationalisms are a resurgent threat throughout the world, Superior is a rigorous, much-needed examination of the insidious and destructive nature of race science—and a powerful reminder that, biologically, we are all far more alike than different.

### **The Private Science of Louis Pasteur**

Every arena of science has its own flash-point issues—chemistry and poison gas, physics and the atom bomb—and genetics has had a troubled history with race. As Jonathan Marks reveals, this dangerous relationship rumbles on to this day, still leaving plenty of leeway for a belief in the basic natural inequality of races. The eugenic science of the early twentieth century and the commodified genomic science of today are unified by the mistaken belief that human races are naturalistic categories. Yet their boundaries are founded neither in biology nor in genetics and, not being a formal scientific concept, race is largely not accessible to the scientist. As Marks argues, race can only be grasped through the humanities: historically, experientially, politically. This wise, witty essay explores the persistence and legacy of scientific racism, which misappropriates the authority of science and undermines it by converting it into a social weapon.

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## **The Vaccine Race**

A brilliant condemnation of political hobbyism—treating politics like entertainment—and a call to arms for well-meaning, well-informed citizens who consume political news, but do not take political action. Who is to blame for our broken politics? The uncomfortable answer to this question starts with ordinary citizens with good intentions. We vote (sometimes) and occasionally sign a petition or attend a rally. But we mainly “engage” by consuming politics as if it’s a sport or a hobby. We soak in daily political gossip and eat up statistics about who’s up and who’s down. We tweet and post and share. We crave outrage. The hours we spend on politics are used mainly as pastime. Instead, we should be spending the same number of hours building political organizations, implementing a long-term vision for our city or town, and getting to know our neighbors, whose votes will be needed for solving hard problems. We could be accumulating power so that when there are opportunities to make a difference—to lobby, to advocate, to mobilize—we will be ready. But most of us who are spending time on politics today are focused inward, choosing roles and activities designed for our short-term pleasure. We are repelled by the slow-and-steady activities that characterize service to the common good. In *Politics Is for Power*, pioneering and brilliant data analyst Eitan Hersh shows us a way toward more effective political participation. Aided by political theory, history, cutting-edge social science, as well as remarkable stories of ordinary citizens who got off their couches and took political

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power seriously, this book shows us how to channel our energy away from political hobbyism and toward empowering our values.

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