

# PATENTING THE SUN



**POLIO AND THE SALK VACCINE**

**THE DRAMATIC STORY BEHIND  
ONE OF THE GREATEST ACHIEVEMENTS  
OF MODERN SCIENCE**

**JANE S. SMITH**

# Patenting The Sun Polio And The Salk Vaccine

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## **Patenting The Sun Polio And The Salk Vaccine:**

**Patenting the Sun** Jane S. Smith, 1991-06-01 Chronicles Dr Salk's successful efforts to develop and test a vaccine for polio from a small laboratory experiment to the first and largest national vaccination campaign **Patenting the Sun** Jane S. Smith, 1990 Captures the intensity that characterized the race to conquer the dreaded crippling disease of polio Smith volunteered to try the experimental Salk vaccine this is her personal essay on the interplay among medicine politics psychology culture collective memory She interprets the science clearly for the lay reader Smith captures the talented contentious determined ambitious people who made the miracle of protection against polio the mixed motives that drove them A fascinating sometimes disturbing story involving massive public support great egos personal ambition professional jealousies fortunately selfless dedication to scientific principles B W photos A Los Angeles Times Book Prize Winner

**Vaccines as Technology** Ana Santos Rutschman, 2022-04-14 The COVID 19 pandemic served as a powerful wake up call highlighting our collective need for the effective development and equitable distribution of new vaccines in addition to widespread administration of existing ones The current models of production and allocation of vaccines against emerging pathogens which rely on predominantly market driven mechanisms are largely at odds with public health needs This book is the first to explore the entire arc of vaccine development and distribution from the decisions about allocation of vaccine R D money to allocation and administration of vaccines resulting from the R D process It explains key concepts and problems in vaccine regulation intellectual property technology transfer and international relations making complex material accessible to a non specialist audience Analyzing the impact of COVID 19 the book also covers several other vaccine races as well as future directions in vaccine development and allocation Polio Across the Iron Curtain Dóra Vargha, 2018-11-01 By the end of the 1950s Hungary became an unlikely leader in what we now call global health Only three years after Soviet tanks crushed the revolution of 1956 Hungary became one of the first countries to introduce the Sabin vaccine into its national vaccination programme This immunization campaign was built on years of scientific collaboration between East and West in which scientists specimens vaccines and iron lungs crossed over the Iron Curtain Dóra Vargha uses a series of polio epidemics in communist Hungary to understand the response to a global public health emergency in the midst of the Cold War She argues that despite the antagonistic international atmosphere of the 1950s spaces of transnational corporation between blocs emerged to tackle a common health crisis At the same time she shows that epidemic concepts and policies were influenced by the very Cold War rhetoric that medical and political cooperation transcended This title is also available as Open Access **Polio Wars** Naomi Rogers, 2014 A study of Australian nurse Sister Elizabeth Kenny and her efforts to have her unorthodox methods of treating polio accepted as mainstream polio care in the United States during the 1940s A case study of changing clinical care and an examination of the hidden politics of philanthropies and medical societies A History of Vaccines and Anti-Vaxxers Anthony C Cartwright, 2025-02-05 Traces the history of anti vaxxers from 19th century

opposition to Edward Jenner's smallpox vaccine to modern day vaccine hesitancy and misinformation Retired drug regulator and medical historian Anthony C Cartwright tells the story of the anti vaxxers starting with objections by Anti Vacks to Edward Jenner's smallpox vaccine in the early 19th century and then a propaganda war waged by the Anti Compulsory Vaccination League and its successor from 1853 to 1972 There was political lobbying and demonstrations across Britain against compulsory smallpox vaccination for children Parents who refused to have their children treated were fined and even went to prison The campaign spread to America and there were links to many countries The popular appeal of anti vaxxer views is reviewed in a new analysis and linked to libertarian objections to compulsion and fears of vaccine safety for their children The early anti vax leaders were germ theory deniers and believers in alternative medicine Using his regulatory expertise to review issues of historic safety quality and efficacy of vaccines major questions about later vaccines such as an early polio vaccine actually increasing polio deaths infant deaths in L Beck from a TB contaminated BCG vaccine and reports linking neurological reactions to Diphtheria Tetanus and Pertussis DTP vaccine are considered These caused reluctance to vaccinate Andrew Wakefield's fraudulent 1998 scientific paper linking MMR vaccine to autism fuelled the fire for the anti vaxxers and caused an epidemic of measles cases in children Although modern Covid 19 vaccines were thoroughly tested for safety and efficacy anti vaccine sentiment came to a head again Demonstrators marched in cities round the world carrying signs protesting government policies and this book looks at the websites which proliferated on the Internet bearing false witness about dangers Lessons can be learned from history to mitigate vaccine hesitancy and mistrust and to ensure all ethnic groups and sections of society receive the healthcare they deserve

**The Branding of the American Mind** Jacob H. Rooksby, 2016-12-01 The first real expos of how universities have trademarked copyrighted branded and patented everything they do Universities generate an enormous amount of intellectual property including copyrights trademarks patents Internet domain names and even trade secrets Until recently universities often ceded ownership of this property to the faculty member or student who created or discovered it in the course of their research Increasingly though universities have become protective of this property claiming it for their own use and licensing it as a revenue source instead of allowing it to remain in the public sphere Many universities now behave like private corporations suing to protect trademarked sports logos patents and name brands Yet how can private rights accumulation and enforcement further the public interest in higher education What is to be gained and lost as institutions become more guarded and contentious in their orientation toward intellectual property In this pioneering book law professor Jacob H Rooksby uses a mixture of qualitative quantitative and legal research methods to grapple with those central questions exposing and critiquing the industry's unquestioned and growing embrace of intellectual property from the perspective of research in law higher education and the social sciences While knowledge creation and dissemination have a long history in higher education using intellectual property as a vehicle for rights staking and enforcement is a relatively new and as Rooksby argues dangerous phenomenon for the sector The

Branding of the American Mind points to higher education's love affair with intellectual property itself in all its dimensions including newer forms that are less tied to scholarly output. The result is an unwelcome assault on the public's interest in higher education. Presuming no background knowledge of intellectual property and ending with a call to action, *The Branding of the American Mind* explores applicable laws, legal regimes and precedent in plain English, making the book appealing to anyone concerned for the future of higher education.     Lesser Harms Sydney A. Halpern, 2004-11-15 Research physicians face intractable dilemmas when they consider introducing new medical procedures. Innovations carry the promise of preventing or curing life-threatening diseases but they can also lead to injury or even death. How have clinical scientists made high-stakes decisions about undertaking human tests of new medical treatments? In *Lesser Harms* Sydney Halpern explores this issue as she examines vaccine trials in America during the early and mid-twentieth century. Today's scientists follow federal guidelines for research on human subjects developed during the 1960s and 1970s. But long before these government regulations, medical investigators observed informal rules when conducting human research. They insisted that the dangers of natural disease should outweigh the risks of a medical intervention and they struggled to accurately assess the relative hazards. Halpern explores this logic of risk in immunization controversies extending as far back as the eighteenth century. Then focusing on the period between 1930 and 1960, she shows how research physicians and their sponsors debated the moral quandaries involved in moving vaccine use from the laboratory to the clinic. This probing work vividly describes the efforts of clinical investigators to balance the benefits and dangers of untested vaccines to respond to popular sentiment about medical hazards and to strategically present risk-laden research to sponsors and the public. Concise and extremely well-written. A fascinating synthesis of sociology, history and institutional theory. Samuel C. Blackman, *Journal of the American Medical Association*.     Bibliography of the History of Medicine, 1993     **Polio** Thomas Abraham, 2018-09-01 In 1988 the World Health Organization launched a twelve-year campaign to wipe out polio. Thirty years and several billion dollars over budget later, the campaign grinds on, vaccinating millions of children and hoping that each new year might see an end to the disease. But success remains elusive against a surprisingly resilient virus, an unexpectedly weak vaccine and the vagaries of global politics meeting with indifference from governments and populations alike. How did an innocuous campaign to rid the world of a crippling disease become a hostage of geopolitics? Why do parents refuse to vaccinate their children against polio? And why have poorly paid door-to-door healthworkers been assassinated? Thomas Abraham reports on the ground in search of answers.     The Scalpel and the Butterfly Deborah Rudacille, 2015-12-15 An engrossing and eloquent study of the history and ethics of animal experimentation. The heart of a pig may soon beat in a human chest. Sheep, cattle and mice have been cloned. Slowly but inexorably, scientists are learning how to transfer tissues, organs and DNA between species. Some think this research is moving too far, too fast without adequate discussion of possible consequences. Is it ethical to breed animals for spare parts? When does the cost in animal life and suffering outweigh the potential benefit to humans? In precise and elegant

prose *The Scalpel and the Butterfly* explores the ongoing struggle between the promise offered by new research and the anxiety about safety and ethical implications in the context of the conflict between experimental medicine and animal protection that dates back to the mid nineteenth century Deborah Rudacille offers a compelling and cogent look at the history of this divisive topic from the days of Louis Pasteur and the founding of organized anti vivisection in England to the Nazi embrace of eugenics from animal rights to the continuing war between PETA and biomedical researchers and the latest developments in replacing reducing and refining animal use for research and testing **The Gatekeeper** Kathryn Smith, 2016 The first biography of arguably the most influential member of Franklin Delano Roosevelt's administration Marguerite Missy LeHand FDR's de facto chief of staff who has been misrepresented mischaracterized and overlooked throughout history until now **Polio Voices** Julie K. Silver, 2007-08-30 Incorporating many rare photographs from the family albums of survivors who tell their stories Harvard professor Julie Silver M D and historian Daniel Wilson help readers understand the sheer terror that gripped parents of young children every spring and summer during the first half of the 20th century as polio epidemics ran rampant Interviewed as part of the Polio Oral History Project directed by Silver and funded by Harvard foundations and private donors the people featured in this book describe what is arguably the most feared scourge of modern times Testimonies are included from people who worked in polio wards as well as from those involved in worldwide eradication efforts The book also addresses the emergence of the polio and disability rights movement the challenges of post polio syndrome and the state of polio research and developments today And it explores the concern that polio could return in an even more vicious form as a result of bioterrorism *Epidemics and Pandemics* Jo N. Hays, 2005-12-12 Balancing current and historical issues this volume of essays covers the most significant worldwide epidemics from the Black Death to AIDS Great pandemics have resulted in significant death tolls and major social disruption Other virgin soil epidemics have struck down large percentages of populations that had no previous contact with newly introduced microbes Written by a specialist in the history of science and medicine the essays in this volume discuss pandemics and epidemics affecting Europe the Americas Africa and Asia covering diseases in ancient times to the present Each entry combines biological and social information to form a picture of the significance of epidemics that have shaped world history The essays cover the areas of major pandemics virgin soil epidemics disruptive shocks and epidemics of symbolic interest Included are facts about what an epidemic was where and when it occurred how contemporaries reacted and the unresolved historical issues remaining This fascinating material is written at a level suitable for scholars and the general public **The Ten Most Important Things Ever Said** Dan D. Schinzel, 2012-07-12 Everyone loves a great quote We marvel at those rare souls who can clearly convey an idea and elicit an emotional response from a reader or an audience in a mere sentence or two The economy of their words provides us a nicely packaged expression that is convenient versatile and easily stored perhaps on a slip of paper or perhaps merely tucked away in our memory banks Because ideas are not

expressed in a vacuum learning something about the person to whom a quote is attributed is essential if we are to fully appreciate its intended meaning In *The Ten Most Important Things Ever Said* Dan D Schinzel brings together quotes from a wide variety of sources that span different cultures and times Each of the ten expressions is followed by a fictional scene and conversation created to elaborate on the intentions of the author Each quote is also accompanied by two or three relevant stories from the past some familiar others obscure The end product is a book that is intended to be a starting point for a conversation about how the words of the past can serve as beacons for our future For while the ten different sayings cover an assortment of subjects and are attributed to a variety of sources they all share one common trait the words and their meaning are timeless

**Vaccination in America** Richard J. Altenbaugh, 2018-08-02 The success of the polio vaccine was a remarkable breakthrough for medical science effectively eradicating a dreaded childhood disease It was also the largest medical experiment to use American schoolchildren Richard J Altenbaugh examines an uneasy conundrum in the history of vaccination even as vaccines greatly mitigate the harm that infectious disease causes children the process of developing these vaccines put children at great risk as research subjects In the first half of the twentieth century in the face of widespread resistance to vaccines public health officials gradually medicalized American culture through mass media public health campaigns and the public education system Schools supplied tens of thousands of young human subjects to researchers school buildings became the main dispensaries of the polio antigen and the mass immunization campaign that followed changed American public health policy in profound ways Tapping links between bioethics education public health and medical research this book raises fundamental questions about child welfare and the tension between private and public responsibility that still fuel anxieties around vaccination today

**The Body at Risk** Carol Squiers, 2005 *The Body at Risk* Photography of Disorder Illness and Healing is the first book to explore the ways that photojournalists and social documentarians have conceptualized the human subject as a site of both good and ill health The volume looks at photographs depicting child laborers Depression era health programs general medical care in the southern United States at mid century people with HIV AIDS and polio along with their caretakers and the health workers who advocate for them environmental pollution physical and psychological injuries received during warfare domestic violence and emergency care in the modern urban hospital It brings together ten significant bodies of photographs made over the past one hundred years to show how human health topics have been represented for the general public and how the emphasis on health has shifted how photography has been used to present and promote certain points of view about health and the social circumstances that affect it both positively and negatively and how photography has helped shape public knowledge of and opinion about health care and some of the events and circumstances that engender it

**Vaccines for the 21st Century** Institute of Medicine, Division of Health Promotion and Disease Prevention, Committee to Study Priorities for Vaccine Development, 2001-03-21 Vaccines have made it possible to eradicate the scourge of smallpox promise the same for polio and

have profoundly reduced the threat posed by other diseases such as whooping cough measles and meningitis What is next There are many pathogens autoimmune diseases and cancers that may be promising targets for vaccine research and development This volume provides an analytic framework and quantitative model for evaluating disease conditions that can be applied by those setting priorities for vaccine development over the coming decades The committee describes an approach for comparing potential new vaccines based on their impact on morbidity and mortality and on the costs of both health care and vaccine development The book examines Lessons to be learned from the polio experience Scientific advances that set the stage for new vaccines Factors that affect how vaccines are used in the population Value judgments and ethical questions raised by comparison of health needs and benefits The committee provides a way to compare different forms of illness and set vaccine priorities without assigning a monetary value to lives Their recommendations will be important to anyone involved in science policy and public health planning policymakers regulators health care providers vaccine manufacturers and researchers

Stroke Recovery and Rehabilitation, 2nd Edition Richard D. Zorowitz, 2014-09-18 The definitive core text in its field Stroke Recovery and Rehabilitation is a comprehensive reference covering all aspects of stroke rehabilitation from neurophysiology of stroke through the latest treatments and interventions for functional recovery and restoration of mobility This second edition is completely updated to reflect recent advances in scientific understanding of neural recovery and growing evidence for new clinical therapies The second edition which includes free e book access with every print purchase continues to provide in depth information on the assessment and management of all acute and long term stroke related impairments and complications including cognitive dysfunctions musculoskeletal pain and psychological issues It examines risk factors epidemiology prevention and neurophysiology as well as complementary and alternative therapies functional assessments care systems ethical issues and community and psychosocial reintegration With contributions from over 100 acknowledged leaders from every branch of the stroke recovery field this edition features expanded coverage of key issues such as the role of robotics and virtual reality in rehabilitation New chapters have been incorporated to cover fields of recent exploration including transcranial magnetic stimulation biomarkers and genetics of recovery as well as essentials like the use of medication and the survivor's perspective The up to date presentation of scientific underpinnings and multi specialty clinical perspectives from physical medicine and rehabilitation neurology physical therapy occupational therapy speech and language pathology and nursing ensures that Stroke Recovery and Rehabilitation will continue to serve as an invaluable reference for every health care professional working to restore function and help stroke survivors achieve their maximum potential New to Stroke Recovery and Rehabilitation Second Edition All chapters are thoroughly revised and updated to reflect advances in scientific understanding of neural recovery and clinical progress Five completely new chapters and expanded coverage of key issues that drive the field forward New contributions from leading stroke specialists from all involved disciplines Includes access to the fully searchable downloadable ebook

Dying in the City of the Blues Keith Wailoo, 2014-06-30 This groundbreaking book chronicles the history of sickle cell anemia in the United States tracing its transformation from an invisible malady to a powerful yet contested cultural symbol of African American pain and suffering Set in Memphis home of one of the nation's first sickle cell clinics Dying in the City of the Blues reveals how the recognition treatment social understanding and symbolism of the disease evolved in the twentieth century shaped by the politics of race region health care and biomedicine Using medical journals patients accounts black newspapers blues lyrics and many other sources Keith Wailoo follows the disease and its sufferers from the early days of obscurity before sickle cell's discovery by Western medicine through its rise to clinical scientific and social prominence in the 1950s to its politicization in the 1970s and 1980s Looking forward he considers the consequences of managed care on the politics of disease in the twenty-first century A rich and multilayered narrative Dying in the City of the Blues offers valuable new insight into the African American experience the impact of race relations and ideologies on health care and the politics of science medicine and disease

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