

# The Interferon Crusade

Panem, Sandra

Note: This is not the actual book cover

# The Interferon Crusade

**Richard Bailey**



## **The Interferon Crusade:**

*The Interferon Crusade* Sandra Panem, 1984 In *The Interferon Crusade* Sandra Panem traces the development of interferon to highlight the policy issues raised by the biotechnology revolution questions that face the biomedical profession concerning relationships between government industry and academe and the need for committed fundamental biomedical research support and actively involved scientists in the setting of the federal research agenda **Interferon** Toine Pieters, 2005-03-15 This innovative study charts the beginnings history and fate of Interferon one of modern medicine's most famous and infamous drugs Interferon is part of the medical profession's armoury against viral infection cancer and MS The story of its development and use is one of survival in the face of remarkable cycles of promise and disappointment as a miracle drug By telling this story Toine Pieters book provides insight into the research manufacture and marketing of new bio molecules that mark modern medical science Pieters closely argued book adopts a multi disciplinary approach in seeking to trace the extraordinary voyage of interferon Through the lens of interferon's voyage the book explores the interaction of the broad range of actors driving medical science biological and clinical researchers the pharmaceutical industry high powered government agencies doctors and patients the media The book demonstrates how research on interferon led to new clinical definitions of cancer and a new rationale for therapeutic use of the drug Interferon provides a marvellous insight into the development of one of the most controversial drugs of our time It enhances our understanding of how medicine manufacture and marketing all played a part in pushing back the boundaries of research from the post penicillin era to the genetics revolution in medicine This study is of particular interest to undergraduates and postgraduates in the fields of History of Medicine Pharmacology Medical Genetics and History of Science [Interferon: The Dawn of Recombinant Protein Drugs](#) J. Lindenmann, W.-D. Schleuning, 2013-06-29 Forty years of Interferon I wish to dedicate this short introduction to the memory of Alick Isaacs 1921 1967 and to that of Sir Christopher Andrewes 1896 1988 Let us go back more than 40 years In 1956 Isaacs was in charge of the Woddd Influenza Centre Andrewes was head of the division of bacteriology and virology and deputy director of the National Institute for Medical Research in London When researchers are faced with a seemingly new phenomenon explanations are easy to come by These explanations fall into two broad categories the phenomenon in question is either due to something or to the lack of something I apologize for the primitive way in which I express this but I am going to give three examples scattered over 100 years of what I mean First example in 1880 the great French microbiologist Louis Pasteur was involved in work on chicken cholera He was struck by the following observation if a suitable chicken broth was inoculated with the bacterium the organism grew profusely and the liquid became turbid If he now freed the fluid by sedimentation or filtration from the bulk of the organisms and re inoculated it with the same bacterium no growth occurred **The \$800 Million Pill** Merrill Goozner, 2005-10-10 Goozner shows how drug innovation is driven by dedicated scientists intent on finding cures for diseases not by pharmaceutical firms whose bottom line often takes

precedence over the advance of medicine Stories of a university biochemist who spent twenty years searching for single blood protein that later became the best selling biotech drug in the world a government employee who discovered the causes for dozens of crippling genetic disorders and the Department of Energy funded research that made the Human Genome Project possible these accounts illustrate how medical breakthroughs actually take place Gene Jockeys Nicolas Rasmussen, 2014-05-15 The scientific scramble to discover the first generation of drugs created through genetic engineering The biotech arena emerged in the 1970s and 1980s when molecular biology one of the fastest moving areas of basic science in the twentieth century met the business world Gene Jockeys is a detailed study of the biotech projects that led to five of the first ten recombinant DNA drugs to be approved for medical use in the United States human insulin human growth hormone alpha interferon erythropoietin and tissue plasminogen activator Drawing on corporate documents obtained from patent litigation as well as interviews with the ambitious biologists who called themselves gene jockeys historian Nicolas Rasmussen chronicles the remarkable and often secretive work of the scientists who built a new domain between academia and the drug industry in the pursuit of intellectual rewards and big payouts In contrast to some who critique the rise of biotechnology Rasmussen contends that biotech was not a swindle even if the public did pay a very high price for the development of what began as public scientific resources Within the biotech enterprise the work of corporate scientists went well beyond what biologists had already accomplished within universities and it accelerated the medical use of the new drugs by several years In his technically detailed and readable narrative Rasmussen focuses on the visible and often heavy hands that construct and maintain the markets in public goods like science He looks closely at how science follows money and vice versa as researchers respond to the pressures and potential rewards of commercially viable innovations In biotechnology many of those engaged in crafting markets for genetically engineered drugs were biologists themselves who were in fact trying to do science This book captures that heady fleeting moment when a biologist could expect to do great science through the private sector and be rewarded with both wealth and scientific acclaim **Grounded Theory in Practice** Juliet M.

Corbin, 1997-03-11 Grounded Theory in Practice presents a series of readings that emphasises different aspects of grounded theory methodology and methods The selections are written by former students of the late Anselm Strauss Companion Encyclopedia of the History of Medicine W. F. Bynum, Roy Porter, 2013-06-20 This is a comprehensive work of reference which covers all aspects of medical history and reflects the complementary approaches to the discipline 72 essays are written by internationally respected scholars from many different areas of expertise **The Greatest Benefit to Mankind: A Medical History of Humanity (The Norton History of Science)** Roy Porter, 1999-10-17 Winner of the Los Angeles Times Book Prize A panoramic and perfectly magnificent intellectual history of medicine This is the book that delivers it all Sherwin Nuland author of How We Die Hailed as a remarkable achievement Boston Globe and as a triumph simultaneously entertaining and instructive witty and thought provoking a splendid and thoroughly engrossing book Los Angeles Times Roy

Porter's charting of the history of medicine affords us an opportunity as never before to assess its culture and science and its costs and benefits to mankind. Porter explores medicine's evolution against the backdrop of the wider religious, scientific, philosophical and political beliefs of the culture in which it develops, covering ground from the diseases of the hunter-gatherers to the more recent threats of AIDS and Ebola, from the clearly defined conviction of the Hippocratic oath to the muddy ethical dilemmas of modern-day medicine. Offering up a treasure trove of historical surprises along the way, this book has instantly become the standard single-volume work in its field. *The Lancet* [Companion Encyclopedia of the History of Medicine](#) William F. Bynum, Roy Porter, 1993. This text provides an account of the development of medical science in its various branches and includes discussions of the medical profession and its institutions and the impact of medicine upon populations, economic development, culture, religions and thought.

**Animal Cell Culture and Technology** Michael Butler, 2004-08-02. Animal cell culture is an important laboratory technique in the biological and medical sciences. It has become an essential tool for the study of most biochemical and physiological processes, and the use of large-scale animal cell culture has become increasingly important to the commercial production of specific compounds for the pharmaceutical industry. This book describes the basic requirements for establishing and maintaining cell cultures both in the laboratory and in large-scale operations. Minimal background knowledge of the subject is assumed, and therefore it will be a readable introduction to animal cell culture for undergraduates, graduates, and experienced researchers. Reflecting the latest developments and trends in the field, the new topics include the latest theory of the biological clock of cell lines, the development of improved serum-free media formulations, the increased understanding of the importance and control of protein glycosylation, and the humanization of antibodies for therapeutic use.

**Bibliography of the History of Medicine**,

*Cold War Triangle* Renilde Loeckx, 2021-03-22. The extraordinary story of scientists in East and West combatting HIV. A small group of scientists were doggedly working in the field of antiviral treatments when the AIDS epidemic struck. Faced with one of the grand challenges of modern biology of the twentieth century, scientists worked across the political divide of the Cold War to produce a new class of antivirals. Their molecules were developed by a Californian start-up together with teams of scientists at the Rega Institute of KU Leuven and the Institute of Organic Chemistry and Biochemistry IOCB of the Academy of Sciences in Prague. These molecules became the cornerstone of the blockbuster drugs now used to combat and prevent HIV. *Cold War Triangle* gives an insight into the human face of science as it recounts the extraordinary story of scientists in East and West who overcame ideological barriers and worked together for the benefit of humanity.

[The History of Pharmacy](#) Gregory Higby, Elaine C. Stroud, 2018-12-12. Originally published in 1995, *The History of Pharmacy* is a critical bibliography of selected information on the history of pharmacy. The book is designed to guide students and academics through the history of science and technology. Topics range from medicine, chemical technology, and the economics and business of pharmacy to pharmacy's influence in the arts. The bibliography includes an exhaustive selection of primary

and secondary sources and is arranged chronologically This book will be of interest to those researching in the area of the history of science and technology and will appeal to students and academic researchers alike

**One in Three** Adam Wishart, 2008-01-21 How close are we to defeating cancer A calming and illuminating blend of memoir and medical history Janet Maslin The New York Times When his father was diagnosed with cancer documentary filmmaker Adam Wishart couldn't find a book that clearly answered his most basic questions What was the disease and how did it take hold What is it about cancer's biology that makes it hard to eradicate And most importantly are we on the way to a cure One in Three is both a son's personal story and a journalistic take on cancer's history outlining the encouraging story of science's progress in changing the outlook on cancer from a disease we die from to one we live with Covering the discovery of the disease its treatment and its prevention this is a story of both hardship and hope and a helpful companion for anyone dealing with this all too common illness as a patient a loved one or a caregiver An engaging presentation of facts reported with the cool detachment of a professional journalist interspersed with the raw feelings of a son recording the progress of his father's fatal illness what's right and wrong within the medical community and the emotional toll on everyone involved with the father and son's journey Booklist Fascinating San Francisco Chronicle Makes abstract science accessible and dignifies a human story with the insights of medicine Andrew Solomon New York Times bestselling and National Book Award winning author of *Far from the Tree*

**Between Bench and Bedside** Ilana Löwy, 1996 Between Bench and Bedside is a compelling account of the clinical trials of interleukin 2 at a major French cancer hospital Löwy's book offers a remarkable insider's view of the culture of clinical experimentation in oncology

**Current Catalog** National Library of Medicine (U.S.), **Cultural Approaches to the History of Medicine** C. Usborne, W. Blécourt, 2003-12-18 A pioneering contribution to the cultural history of medicine exploring issues as diverse as dissection of the heart childbirth masturbation animal care hermaphrodites orthopaedics miracle drugs smallpox and sex advice in different European cultures from the 1600s to the present day Each case study illustrates various roles of mediation reconciling conflicting ideas in the medical encounter as an instrument of domination or conversely of resistance Roy Porter's brilliant foreword conveys the methodological significance as well as the pleasure of these essays

*Molecularizing Biology and Medicine* Soraya de Chadarevian, Harmke Kamminga, 2003-09-02 The contributors present a coherent set of case studies of practices technologies and strategies aimed at the isolation investigation manipulation production and uses of molecules including vitamins hormones blood products antibiotics and vaccines These case studies examine how processes of molecularization were set in motion in the inter war period how they were used as a resource in the biomedical mobilization of World War II and how new alliances and strategies created as part of the war effort played a central role in the reorganisation of biomedicine in the post war period

**Brookings at Seventy-Five** James Allen Smith, 2010-12-01 The historian James Allen Smith traces the evolution of Washington's oldest and prototypical think tank on the occasion of its seventy fifth anniversary in 1991 Dedicated to bringing expertise to bear on

public policy issues Brookings has been a pioneer in bridging the disparate worlds of social science research and American policymaking But while its efforts have been made steady there have been frustrations and controversy over the years Inspired by the scientific management and government efficiency movements in the Progressive Era Brookings has evolved from an organization that consulted with government agencies on accounting and personnel practices into an institution with a wide ranging research and publishing program as well as active public policy education and media outreach efforts Smith vividly tells of the key individuals beginning with Robert Brookings who have shaped the institution He recounts its relationships with financial supporters and presidential administrations and he candidly discusses the problems surrounding efforts at funding Smith places the Brookings research program in an intellectual context and within the changing policymaking environment of Washington He reveals how Brookings has withstood seventy five years of shifts in national politics external perceptions on the institution and internal leadership to emerge as one of the most prominent sources of policy expertise in the world The proliferation of private think tanks and the expansion of governmental research agencies in the past quarter century have changed the policy environment The Brookings Institution on its seventy fifth anniversary offers a singular vantage point from which to observe the ever changing relationship between expert knowledge and political decisionmaking in our democracy

**Making PCR** Paul Rabinow, 2011-11-27 Making PCR is the fascinating behind the scenes account of the invention of one of the most significant biotech discoveries in our time the polymerase chain reaction Transforming the practice and potential of molecular biology PCR extends scientists ability to identify and manipulate genetic materials and accurately reproduces millions of copies of a given segment in a short period of time It makes abundant what was once scarce the genetic material required for experimentation Making PCR explores the culture of biotechnology as it emerged at Certus Corporation during the 1980s and focuses on its distinctive configuration of scientific technical social economic political and legal elements each of which had its own separate trajectory over the preceding decade The book contains interviews with the remarkable cast of characters who made PCR including Kary Mullin the maverick who received the Nobel prize for discovering it as well as the team of young scientists and the company s business leaders This book shows how a contingently assembled practice emerged composed of distinctive subjects the site where they worked and the object they invented Paul Rabinow paints a picture of the process of discovery in Making PCR A Story of Biotechnology and teases out every possible detail Makes for an intriguing read that raises many questions about our understanding of the twisting process of discovery itself David Bradley New Scientist Rabinow s book belongs to a burgeoning genre ethnographic studies of what scientists actually do in the lab A bold move Daniel Zalewski Lingua Franca Making PCR is exotic territory biomedical research explored Rabinow describes a dance the immigration and repatriation of scientists to and from the academic and business worlds Nancy Maull New York Times Book Review

## Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **The Interferon Crusade**

In some sort of inundated with screens and the cacophony of fast interaction, the profound power and mental resonance of verbal beauty usually fade into obscurity, eclipsed by the regular onslaught of sound and distractions. However, set within the musical pages of **The Interferon Crusade**, a charming function of fictional splendor that impulses with organic emotions, lies an unforgettable trip waiting to be embarked upon. Published by way of a virtuoso wordsmith, that mesmerizing opus guides viewers on an emotional odyssey, lightly revealing the latent potential and profound influence stuck within the complex internet of language. Within the heart-wrenching expanse of the evocative examination, we will embark upon an introspective exploration of the book is key subjects, dissect their captivating writing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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