

The Interferon Crusade

Panem, Sandra

Note: This is not the actual book cover

The Interferon Crusade

Toine Pieters



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

The Beautiful Cure Daniel M. Davis, 2021-03-19 A terrific book by a consummate storyteller and scientific expert considers the past and future of the body's ability to fight disease and heal itself Adam Rutherford The Guardian The immune system holds the key to human health In The Beautiful Cure leading immunologist Daniel M Davis describes how the scientific quest to understand how the immune system works and how it is affected by stress sleep age and our state of mind is now unlocking a revolutionary new approach to medicine and well being The body's ability to fight disease and heal itself is one of the great mysteries and marvels of nature But in recent years painstaking research has resulted in major advances in our grasp of this breathtakingly beautiful inner world a vast and intricate network of specialist cells regulatory proteins and dedicated genes that are continually protecting our bodies Far more powerful than any medicine ever invented the immune system plays a crucial role in our daily lives We have found ways to harness these natural defenses to create breakthrough drugs and so called immunotherapies that help us fight cancer diabetes arthritis and many age related diseases and we are starting to understand whether activities such as mindfulness might play a role in enhancing our physical resilience Written by a researcher at the forefront of this adventure The Beautiful Cure tells a dramatic story of scientific detective work and discovery of puzzles solved and mysteries that linger of lives sacrificed and saved With expertise and eloquence Davis introduces us to this revelatory new understanding of the human body and what it takes to be healthy Visceral The Wall Street Journal Illuminating Publishers Weekly Heroic Science

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.

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 medicine: 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.

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*.

Transforming America Robert M. Collins, 2009-08-22 Robert Collins examines the critical and controversial developments of the 1980s and the unmistakable influence of Ronald Reagan on their making. Portraying the former president as a complex political figure who combined ideological conservatism with political pragmatism, Collins demonstrates how Reagan's policies helped limit the scope of government control, inflation, reduce the threat of nuclear war and defeat communism. In the 1980s other changes occurred as well, including the advent of the personal computer, a revolution in information technology, a more globalized national economy and a restructuring of the American corporation. In the realm of culture, MTV, self-help gurus and postmodernism realized the cultural shifts of the postwar era, creating a conflict that pitted cultural conservatism against a

secular multicultural view of the world Entertaining and erudite Transforming America explores the events movements and ideas that profoundly changed American culture and politics during an important decade *Regulation of the Pharmaceutical Industry* J. Abraham,H. Lawton Smith,2003-06-10 How are pharmaceutical technologies developed and controlled in our societies To what extent should the availability of these technologies be determined by scientific experts a democratic state the interests of final users or ethical principles This unique collection brings together the work of social scientists ethicists lawyers and policy analysts on regulation ethics and innovation in the pharmaceutical industry Regulatory systems and their implications for public health in North America Europe and developing countries are discussed including case studies of norplant interferon and anti fertility vaccines

The Interferon Crusade Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**The Interferon Crusade**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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