

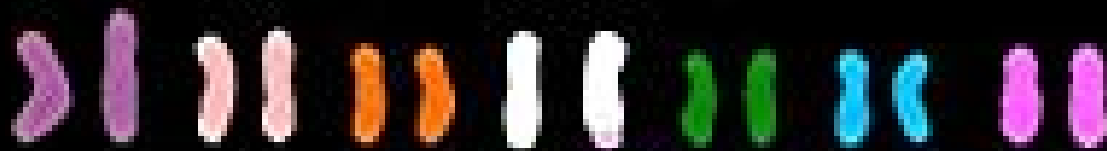
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THE PHILADELPHIA CHROMOSOME



A GENETIC MYSTERY, A LETHAL CANCER, AND THE
IMPROBABLE INVENTION OF A LIFE-SAVING TREATMENT



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Jessica Wapner

The Philadelphia Chromosome: A Genetic Mystery, a Lethal Cancer, and the Improbable Invention of a Lifesaving Treatment



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Philadelphia, 1959: A scientist scrutinizing an individual human cell under a microscope detects a missing little bit of DNA. Cancer research would never become the same. It would take doctors and experts around the world a lot more than three years to unravel the implications of this landmark discovery. In 1990, the Philadelphia chromosome was recognized as the sole cause of a deadly blood tumor, chronic myeloid leukemia, or CML. That scientist, David Hungerford, had no chance of knowing that he had stumbled upon the starting point of modern cancer study? the Philadelphia chromosome. It is a celebration of a uncommon triumph in the fight against tumor and a blueprint for future analysis, as doctors and researchers race to uncover and treat the genetic roots of a wide range of cancers. Their curiosity and determination would ultimately lead to a lifesaving treatment unlike anything before it. The Philadelphia Chromosome chronicles the remarkable change of fortune for the a lot more than 70,000 people worldwide who are diagnosed with CML each year. Science journalist Jessica Wapner reconstructs a lot more than forty years of crucial breakthroughs, clearly explains the research in it, and pays tribute?with extensive first reporting, including a lot more than thirty-five interviews?to the a large number of experts, doctors, and sufferers with a direct function in this inspirational tale.



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Exciting book about the advent of Gleevec This book was well crafted and understandable to a nonscientist, such as myself. The author jumps back and forth a little bit and there were lots of names and patients to keep track of, and I got to stop and make an effort to recall who we were discussing. That is not really to say, nevertheless, that I wasn't occasionally confused about how all of the different people whose discoveries came collectively to lead to the discovery of Gleevec suit together. And I'm not a biochemist and since my chemistry in senior high school days are long gone, I had to look up a bunch on wikipedia to refresh my recollection of cellular procedures.. Far from it. The author uses great analogies to help the reader understand the cellular procedures. Without that help, I would have been lost. The Philadelphia chromosome has had an unfortunate effect on my family. It saves lives, but if you ask me this smacked of a reserve that was subsidized to create Big Pharma look good, when currently they do way too many things wrong. My initial cousin with CML went into blast stage a short couple of months after Gleevec was presented on the news headlines and he was unable to get the medication that could have saved his life. So, this subject is quite real and personal someone to me and this book helped me to comprehend the process of the condition and the miracle of the discovery this publication speaks of. I simply wish the 3 years of stalling on the beginning of trials hadn't existed, because those were the three years that my cousin could 've got on the trial and resided. The book can be an extremely informative historical study of what sort of drug for cml (chronic myelogenous leukemia) became possible. He was the only real support and ease and comfort of his family. I have very good news and bad news. How to save a life...the good way around. This really was a great book for me to read. I'm a physicist and not a chemist but I was still able to follow the story fairly well. We cannot ignore the good that Big Pharma will with drug development. I had found out about the Philadelphia Chromosome in every of my textbooks, however they don't say as much about any of it as they could possess... In this case, it was an enzyme. I don't think people realize the quantity of time and function it requires from having an inkling about something heading strange in the human body, and acquiring it to a bottom line that may possibly help people. USually it takes decades and many, many groups and folks involved in figuring several different pathways to the same closing to finally decode where in fact the issue lies. Chronic myelogenous leukemia is one of the nastier cancers out there. I knew people who got this and died from it. There was almost nothing to take care of it.. Five Stars Great book! Although, I'm not saying that this book isn't well crafted. we would sort of shake our heads, and cry..and what gets created by that chromosome (DNA goes to RNA goes to proteins) gets produced wrong. since it was a death sentence. But there was somebody who really observed what was taking place between two chromosomes. Usually when we copy chromosomes they don't have a problem, but every occasionally, a chromosome will delete something or invert something....therefore i absolutely needed to read this reserve.. It had been like pancreatic tumor is now. and that enzyme led towards malignancy. CML is usually an older person's disease..but it really makes me personally wonder if this publication was paid for originally by the firms pushing this specific drug. This book follows the many great people and corporations who done this problem, in order to find something that would heal this disease. I'm impressed with the tale, impressed with the people. Having said all this about this being a great book. I didn't like the closing of the book because it sounded just like a shill for the pharmaceutical businesses. REsearchers do not get the fame they should ever...but they should! And I was impressed with the wriiting of the writer. Fascinating tale of the lengthy, circuitous road from the discovery of a genetic marker for chronic myeloid leukemia to the advancement of an imperfect, specific treatment.. A much needed to book for people who know nothing about doing analysis. Since my wife offers CML and the Philadelphia chromosome, I experienced a particular interest in understanding how these kinase inhibitors had been developed. I do admit the companies here did a lot more than many of them perform. It required 50 years, dozens of unconnected researchers, starts and stops and blind alleys before anything related to patient treatment was reached.. Because as we get older, our ability to repair mistakes in our cells get significantly less. I have acquired a

3rd cousin die from leukemia who experienced received a bone marrow transplant, an initial cousin die from cml with the philadelphia chromosome, and a nephew with ALL with the philadelphia chromosome survive because he got to consider Gleevec. I miss him..... As a blood cancer tumor survivor myself, it's encouraging to learn there are hundreds of labs functioning rationally towards more effective treatments but disheartening to know how slowly progress comes. The book was extremely detailed about the many researchers involved, each making use of their small but necessary little bit of the puzzle. It's the extreme detail that makes the book challenging to learn. I almost gave up several times. The reserve made me a lot more certain that our authorities must support science and research a lot more. But I've been teaching for quite some time premed and nursing college students. The complexities underlying the manifestation of such a medication makes one lean towards the thought a miracle has happened. Well written book The writer is such a good story teller that it is to the loss of the reading community that she has not written many a lot more books. He left four children and a wife. Politicians wish to color them as a exclusively evil group. The chapter delineations are well-planned, the writing concise and lucid. people like my partner would not be alive today I found the tale of the development of Gleevec very interesting. I am coming towards the finish of the reserve reading and nearly wish the writer wouldn't normally stop talking with me. I loved performing study in med school. Most research is performed by universities, and the pharmaceutical companies usually get the end of the study and make money off of it. Perfectly written. If not really for that sort of perseverance, people like my partner would not be alive today. Very interesting story. It might be too confusing for a nonscience reader. I was especially impressed with the determination of the researchers to market Gleevec even though the pharmaceutical companies were reluctant. i would recommend this to anyone battling malignancy. A scientific background will be very helpful to follow and understand this. A great deal of information about Chronic Myloid Leukemia, and . Why?. A lot of information about Chronic Myloid Leukemia, and how chromosomes break away and form two brand-new ones. This publication tells how a medication was developed to take care of this type of leukemia. I'm an 8 year survivor!! Fascinating Therefore helpful and interesting in understanding the breakthrough in managing some blood cancers. Brilliant A great outlook on a profound advancement culminating in a medicine keeping the lives of thousands. The narration is indeed clear that anyone, become it in medicine or unrelated, can read and understand well. Furthermore, the writer narrates so well that sometimes you feel like you are watching a movie..



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