

SUE ARMSTRONG

'A fascinating  
story of human  
ingenuity'  
Matt Ridley

# p53

THE GENE THAT  
CRACKED THE  
CANCER CODE

BLOOMSBURY

# P53 The Gene That Cracked The Cancer Code

**Tara West**



## **P53 The Gene That Cracked The Cancer Code:**

**p53** Sue Armstrong, 2015-02-24 The story of the search for p53 the most important gene in medicine All of us have lurking in our DNA a most remarkable gene it is known simply as p53 and its job is to protect us from cancer p53 The Gene that Cracked the Cancer Code tells the story of the discovery of the gene and of medical science's mission to unravel its mysteries and get to the heart of what happens in our cells when they turn cancerous When all is well this gene constantly scans our cells to ensure that when they grow and divide as part of the routine maintenance of our bodies they do so without mishap If a cell makes a mistake in copying its DNA during the process of division p53 stops it in its tracks sending in the repair team before allowing the cell to carry on dividing Cancer cannot develop unless p53 itself is damaged or handicapped by some other fault in the system Not surprisingly p53 is the most studied single gene in history Through the personal accounts of key researchers the book reveals the excitement of the hunt for new cures the hype the enthusiasm the lost opportunities the blind alleys and the thrilling breakthroughs As the long anticipated revolution in cancer treatment tailored to each individual patient's symptoms starts to take off at last p53 is at the cutting edge This is a timely tale of scientific discovery and advances in our understanding of a disease that still affects more than one in three of us at some point in our lives

**p53 in Breast Cancer** Manzoor Ahmad Mir, 2024-12-24 p53 in Breast Cancer Molecular Mechanisms Clinical Implications and Therapeutic Targets comprehensively reviews the role of p53 in breast cancer development progression and treatment It explores the multifaceted functions of p53 from its fundamental connection to breast cancer and pathway mechanisms to its influence on cancer metabolism and the impact of mutational alterations The initial chapters discuss the complex landscape of p53's involvement in cancer metabolism the ramifications of its mutations and its crucial role as a tumor suppressor The subsequent chapters review the regulatory functions of p53 in cell death DNA repair genomic stability and cell cycle dynamics highlighting its interactions with transcription factors DNA repair enzymes and family members p63 and p73 It further reviews the regulation of mutant p53 via post translational modifications and delves into the approaches to combat mutated p53 highlighting targeted therapies and efforts to overcome chemoresistance The chapters also address the role of p53 biomarkers in diagnosis and prognosis the optimization of treatment responses and the impact of nutrition on p53 activity This book is an important resource for oncology and molecular biology researchers

**Key Features** Provides a thorough examination of the p53 gene and its crucial involvement in breast cancer Explores the critical implications of mutational alterations in p53 on the development and progression of breast cancer Examines the role of p53 in managing apoptosis and contributing to DNA repair and genomic stability Discusses the complex interactions of p53 with transcription factors DNA repair enzymes p63 and p73 Highlights the role of p53 as a biomarker in diagnosing and predicting breast cancer prognosis

**Cancer Virus Hunters** Gregory J. Morgan, 2022-08-02 The author tells a history of the study of cancer causing viruses from the early twentieth century to the development of an HPV vaccine for cervical cancer in 2006 He profiles the cancer

virus hunters who made breakthroughs in tumor virology      *Science, the State and the City* Geoffrey Owen, Michael M. Hopkins, 2016 The book is about the link between science and business how discoveries made in academic laboratories are taken up by venture capitalists and investors and converted into products which if they are successful provide treatments for disease and may generate substantial returns for investors      Epidemiology of Brain and Spinal Tumors Jahangir Moini, Nicholas Avgeropoulos, Mohtashem Samsam, 2021-04-09 Epidemiology of Brain and Spinal Tumors provides a single volume resource on imaging methods and neuroepidemiology of both brain and spinal tumors The book covers a variety of imaging techniques including computed tomography CT MRI positron emission tomography PET and other laboratory tests used in diagnosis and treatment Detailed epidemiology various imaging methods and clinical considerations of tumors of the CNS make this an ideal reference for users who will also find diverse information about structures and functions cytology epidemiology including molecular epidemiology diagnosis and treatment This book is appropriate for neuroscience researchers medical professionals and anyone interested in a complete guide to visualizing and understanding CNS tumors Provides the most up to date information surrounding the epidemiology biology and imaging techniques for brain and spinal tumors including CT MRI PET and others Includes full color figures photos tables graphs and radioimaging Contains information that will be valuable to anyone interested in the field of neurooncology and the treatment of patients with brain and spinal tumors Serves as a source of background information for basic scientists and pharmaceutical researchers who have an interest in imaging and treatment      *The First Cell* Azra Raza, 2019-10-15 With the fascinating scholarship of *The Emperor of All Maladies* and the deeply personal experience of *When Breath Becomes Air* a world class oncologist examines the current state of cancer and its devastating impact on the individuals it affects including herself In *The First Cell* Azra Raza offers a searing account of how both medicine and our society mis treats cancer how we can do better and why we must A lyrical journey from hope to despair and back again *The First Cell* explores cancer from every angle medical scientific cultural and personal Indeed Raza describes how she bore the terrible burden of being her own husband s oncologist as he succumbed to leukemia Like *When Breath Becomes Air* *The First Cell* is no ordinary book of medicine but a book of wisdom and grace by an author who has devoted her life to making the unbearable easier to bear      **The Future of the Past** Peter Martland, 2002 This fascinating volume of essays from the Cambridge Faculty of History looks at the ideas and events that create history from the notion of liberty to the influence of religion to the origins of Europe As Europe reshapes itself today the question of how it was defined in the past comes to the fore and as the influence of the United States steadily extends across established state borders it compels a reappraisal of the history and responsiveness of Western intellectual cultural and political traditions This is the companion volume to *Globalization in World History* published by Pimlico      **Applied Radiology**, 2001 Each issue includes separate but continuously paged sections called Nuclear medicine and Ultrasound      **New Scientist**, 1995      Borrowed Time Sue Armstrong, 2019-02-26 Uncovering the science behind how and why we age

**Borrowed Time** Sue Armstrong, 2019-01-10      **25 Years of p53 Research** Pierre Hainaut, Klas G. Wiman, 2005-04-18

p53 has emerged as a key tumor suppressor and important target for novel cancer therapy This book written by world leading p53 researchers including many of those who have shaped the field over the past 25 years provides unique insights into the progress of the field and the prospects for better cancer diagnosis and therapy in the future      *P53 Suppressor Gene* Tapas Mukhopadhyay, Steven A. Maxwell, Jack A. Roth, 2014-01-15      **The p53 Tumor Suppressor Pathway and Cancer** Gerard P. Zambetti, 2007-07-03

The current year 2004 marks the Silver Anniversary of the discovery of the p53 tumor suppressor The emerging field considered p53 as a viral antigen and then as an oncogene that cooperates with activated ras in transforming primary cells in culture Fueling the concept of p53 acting as a transforming factor p53 expression was markedly elevated in various transformed and tumorigenic cell lines when compared to normal cells In a simple twist of fate most of the studies conducted in those early years inadvertently relied on a point mutant of p53 that had been cloned from a normal mouse genomic library A bona fide wild type p53 cDNA was subsequently isolated ironically from a mouse teratocarcinoma cell line A decade after its discovery p53 was shown to be a tumor suppressor that protects against cancer It is now recognized that approximately half of all human tumors arise due to mutations within the p53 gene As remarkable as this number may seem it significantly underrepresents how often the p53 pathway is targeted during tumorigenesis It is my personal view as well as many in the field that the p53 signaling pathway is corrupted in nearly 100% of tumors If you are interested in understanding cancer and how it develops you must begin by studying p53 and its pathway After demonstrating that p53 functions as a tumor suppressor the field exploded and p53 became a major focus of scientists around the world      *Prognostic and Predictive Value of P53* Jan G. M. Klijn, 1997 Hardbound This first volume in the series European School of Oncology Scientific Updates deals with one of the most important genes in the molecular genetics of human cancer p53 This cellular protein was discovered in 1979 by a number of investigators independently and alterations of p53 or its product are observed in about half of all cancers In the early 1980s several laboratories initially demonstrated dominant oncogenic activities of the gene Then in 1989 p53 was recognised as a classic tumour suppressor gene based on the results of various studies by different research groups Since the detection of the gene and its product various important functions have been described The gene appears to be involved in cell cycle control DNA repair apoptosis cellular differentiation senescence and angiogenesis In view of the rapidly increasing importance of p53 a Task Force Meeting was organised by the European School of Oncology      *The Role of the Gene P53 in the Development of Cancer* Tara West, 2005      **Studies on the P53 Gene and Protein in Breast Cancer** David W. S. Chin, 1994      *Mutant p53 in Cancer Progression and Personalized Therapeutic Treatments* Marco Cordini, Dawid Walerych, Jerson L. Silva, Oleg Timofeev, Mara Cirone, 2021-10-22      *p53 in the Clinics* Pierre Hainaut, Magali Olivier, Klas G. Wiman, 2012-08-30 This project follows on the success of the book 25 years of p53 published by Springer in 2006 Since this publication there have been considerable

advances on the potential application of p53 into the clinics The goal of this book is to capture these developments and to appeal to a clinical and medical audience beyond the one which was the primary target of 25 years of p53 *The P53 Protein* Guillermina Lozano, Arnold Jay Levine, 2016 Decades of research on the tumor suppressor p53 have revealed that it plays a significant role as a guardian of the genome protecting cells against genotoxic stress In recent years p53 research has begun to move into the clinic in attempts to understand how p53 is frequently inactivated in and sometimes even promotes human cancer Written and edited by experts in the field this collection from Cold Spring Harbor Perspectives in Medicine covers the rapid progress that has recently been made in basic and clinical research on p53 The contributors review new observations about its basic biology providing updates on the functions of its isoforms and domains the myriad stresses and signals that trigger its activation or repression and its downstream effects on genome stability and the cell cycle that enforce tumor suppression in different cell and tissue types They also discuss how p53 dysfunction contributes to cancer exploring the various inherited and somatic mutations in the human TP53 gene the impact of mutant p53 proteins on tumorigenesis and the prognostic value and clinical outcomes of these mutations Drugs that are being developed to respond to tumors harboring aberrant p53 are also described This book is therefore essential reading for all cancer biologists cell and molecular biologists and pharmacologists concerned with the treatment of this disease

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### **P53 The Gene That Cracked The Cancer Code Introduction**

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