

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

**Laura Mucha**



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

*p53* Sue Armstrong, 2014-11-20 All of us have lurking in our DNA a most remarkable gene which has a crucial job it protects us from cancer Known simply as p53 this gene constantly scans our cells to ensure that they grow and divide without mishap as part of the routine maintenance of our bodies If a cell makes a mistake in copying its DNA during the process of division p53 stops it in its tracks summoning a repair team before allowing the cell to carry on dividing If the mistake is irreparable and the rogue cell threatens to grow out of control p53 commands the cell to commit suicide Cancer cannot develop unless p53 itself is damaged or prevented from functioning normally Perhaps unsurprisingly p53 is the most studied single gene in history This book tells the story of medical science's mission to unravel the mysteries of this crucial gene and to get to the heart of what happens in our cells when they turn cancerous Through the personal accounts of key researchers *p53 The Gene that Cracked the Cancer Code* reveals the fascination of the quest for scientific understanding as well as the huge excitement of the chase for new cures the hype the enthusiasm the lost opportunities the blind alleys and the thrilling breakthroughs And as the long anticipated revolution in cancer treatment tailored to each individual patient's symptoms begins to take off at last p53 remains at the cutting edge This timely tale of scientific discovery highlights the tremendous recent advances made in our understanding of cancer a disease that 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

**Genomics** John M. Archibald, 2018 In the years since the Human Genome Project

genomics has grown into a big and rapidly developing field driven by bioinformatics technology The implications for our health and privacy and our understanding of ecological systems and evolution are profound This book provides an account of this exciting new science its impact and its potential      The Hope of Elephants Amanda Rawson Hill,2022-09-06 An inspiring coming of age novel in verse about weathering the uncertainty that comes with family illness perfect for fans of *Starfish* and *Red White and Whole* Cass and her parents haven't let her dad's cancer stop them from having a good life full of love and poems and one annual World Series game Now that Dad's cancer is back Cass overhears the doctor say that she has a 50% chance of inheriting her dad's genetic mutation Li Fraumeni syndrome There's a genetic test Cass can take that will tell her for sure There's still so much she wants to do play baseball study at the zoo travel the world with her best friend Jayla Would it be better not to know When it turns out Dad's cancer is worse this time Cass is determined to keep up their World Series tradition while navigating all the change and uncertainty that lies ahead Poignant and powerful Cass's story brings the pains and anxiety linked with illness to the surface and reminds us that sometimes hope is worth holding on to Praise for *The Hope of Elephants* A Bank Street Best Children's Book of 2023 An NCTE Notable Poetry Book of 2022 A 2022 Cybils finalist for Novels in Verse A Whitney Awards finalist      *Borrowed Time* Sue Armstrong,2019-01-24 As featured on BBC Radio 4's *Start the Week* A rich timely study for the era of global ageing Nature The ageing of the world population is one of the most important issues facing humanity in the 21st century up there with climate change in its potential global impact Sometime before 2020 the number of people over 65 worldwide will for the first time be greater than the number of 0-4 year olds and it will keep on rising The strains this is causing on society are already evident as health and social services everywhere struggle to cope with the care needs of the elderly But why and how do we age Scientists have been asking this question for centuries yet there is still no agreement There are a myriad competing theories from the idea that our bodies simply wear out with the rough and tumble of living like well worn shoes or a rusting car to the belief that ageing and death are genetically programmed and controlled In *Borrowed Time* Sue Armstrong tells the story of science's quest to understand ageing and to prevent or delay the crippling conditions so often associated with old age She focusses inward on what is going on in our bodies at the most basic level of the cells and genes as the years pass to look for answers to why and how our skin wrinkles with age our wounds take much longer to heal than they did when we were kids and why words escape us at crucial moments in conversation This book explores these questions and many others through interviews with key scientists in the field of gerontology and with people who have interesting and important stories to tell about their personal experiences of ageing

**Between Hope and Fear** Michael Kinch,2018-07-03 If you have a child in school you may have heard stories of long dormant diseases suddenly reappearing cases of measles mumps rubella and whooping cough cropping up everywhere from elementary schools to Ivy League universities because a select group of parents refuse to vaccinate their children *Between Hope and Fear* tells the remarkable story of vaccine preventable infectious diseases and their social and political implications

While detailing the history of vaccine invention Kinch reveals the ominous reality that our victories against vaccine preventable diseases are not permanent and could easily be undone In the tradition of John Barry s *The Great Influenza* and Siddhartha Mukherjee s *The Emperor of All Maladies* Between Hope and Fear relates the remarkable intersection of science technology and disease that has helped eradicate many of the deadliest plagues known to man *Molecular Biology* Aysha Divan,Janice Royds,2016 *Molecular Biology* lies at the heart of all life sciences This Very Short Introduction provides an account of the development of this important modern field and considers its modern day applications such as the development of new drugs genetically modified crops and forensic science *Immune* Catherine Carver,2017-09-21 A thrilling fact packed journey of discovery through the body s immune system The human body is like an exceedingly well fortified castle defended by billions of soldiers some live for less than a day others remember battles for decades but all are essential in protecting us from disease This hidden army is our immune system and without it we could not survive the eternal war between our microscopic enemies and ourselves *Immune* explores the incredible arsenal that lives within us how it knows what to attack and what to defend and how it kills everything from the common cold virus to plague bacteria We see what happens when the immune system turns on us and how life is impossible without its protection We learn how diseases try to evade the immune system and exploit its vulnerabilities and we discover how scientists are designing new drugs to harness the power of the system to fight disease Do transplants ever reject their new bodies What is pus How can your body make more antibodies than there are stars in our galaxy Why is cancer so hard for our immune system to fight Why do flu outbreaks cause a spike in sleep disorders Can we smell someone else s immune system and does that help us subconsciously decide who we fall in love with In this book Catherine Carver answers all of these compelling questions and many more besides Drawing on everything from ancient Egyptian medical texts to cutting edge medical science *Immune* will take you on an adventure packed with weird and wonderful revelations about your own internal defensive system *Best Before* Nicola Temple,2018-02-22 The whole story behind what s in the food on our plate Long before there was the ready meal humans processed food to preserve it and make it safe From fire to fermentation our ancestors survived periods of famine by changing the very nature of their food This ability to process food has undoubtedly made us one of the most successful species on the planet but have we gone too far Through manipulating chemical reactions and organisms scientists have unlocked methods of improving food longevity and increasing supply from apples that stay fresh for weeks to cheese that is matured over days rather than months And more obscure types of food processing such as growing steaks in a test tube and 3D printed pizzas seem to have come straight from the pages of a science fiction novel These developments are keeping up with the changing needs of the demanding consumer but we only notice them when the latest scaremongering headline hits the news *Best Before* puts processed food into perspective It explores how processing methods have evolved in many of the foods that we love in response to big business consumer demand health concerns innovation political will waste and even war

Best Before arms readers with the information they need to be rational consumers capable of making informed decisions about their food

**Catching Breath** Kathryn Lougheed, 2017-06-15 Tuberculosis is an ancient disease but it's not a disease of history. With more than a million victims every year more than any other disease including malaria and antibiotic resistance now found in every country worldwide tuberculosis is once again proving itself to be one of the smartest killers humanity has ever faced. But it's hardly surprising considering how long it's had to hone its skills. Forty thousand years ago our ancestors set off from the cradle of civilisation on their journey towards populating the planet. Tuberculosis hitched a lift and came with us and it's been there ever since waiting, watching and learning. In *The Robber of Youth* Kathryn Lougheed, a former TB research scientist, tells the story of how tuberculosis and humanity have grown up together with each being shaped by the other in more ways than you could imagine. This relationship between man and microbe has spanned many millennia and has left its mark on both species. We can see evidence of its constant shadow in our genes, in the bones of the ancient dead, in art, music and literature. Tuberculosis has shaped societies and it continues to do so today. The organism responsible for TB, *Mycobacterium tuberculosis*, has had plenty of time to adapt to its chosen habitat, human lungs, and has learnt through natural selection to be an almost perfect pathogen. Using our own immune cells as a Trojan Horse to aid its spread, it's come up with clever ways to avoid being killed by antibiotics. But patience has been its biggest lesson: the bacterium can enter into a latent state when times are tough, only to come back to life when a host's immune system can no longer put up a fight. Today more than one million people die of the disease every year and around one third of the world's population are believed to be infected. That's more than two billion people. Throw in the compounding problems of drug resistance, the HIV epidemic and poverty and it's clear that tuberculosis remains one of the most serious problems in world medicine. *The Robber of Youth* follows the history of TB through the ages from its time as an infection of hunter-gatherers to the first human villages, which set it up with everything it needed to become the monstrous disease it is today, through to the perils of industrialisation and urbanisation. It goes on to look at the latest research in fighting the disease with stories of modern scientific research, interviews with doctors on the frontline treating the disease, and the personal experiences of those affected by TB.

**Sorting the Beef from the Bull** Richard Evershed, Nicola Temple, 2016-02-25 Horsemeat in burgers was hard to swallow but there are far more sinister culinary crimes afoot. Chicken eggs that haven't come from chickens, melamine in infants' milk in China, nut shells in spices: these are just some examples of the food fraud that has occurred in recent years. As our urban lifestyle takes us further and further away from our food sources, there are increasing opportunities for dishonesty, duplicity and profit-making shortcuts. Food adulteration motivated by money is an issue that has spanned the globe throughout human history. Whether it's a matter of making a good quality oil stretch a bit further by adding a little extra something or labelling a food falsely to appeal to current consumer trends, it's all food fraud and it costs the food industry billions of dollars each year. The price to consumers may be even higher with some paying for these crimes.

with their health and in some cases their lives Sorting the Beef from the Bull is a collection of food fraud tales from around the world It explains the role of science in uncovering some of the century s biggest food scams and explores the arms race between food forensics and fraudsters as new methods of detection spur more creative and sophisticated means of committing the crimes This book equips us with the knowledge of what is possible in the world of food fraud and shines a light on the shady areas of our food supply system where these criminals lurk *Catching Stardust* Natalie

Starkey,2018-03-08 Astonishing New Scientist Icy rocky sometimes dusty always mysterious comets and asteroids are among the Solar System s very oldest inhabitants formed within a swirling cloud of gas and dust in the area of space that eventually hosted the Sun and its planets Locked within each of these extra terrestrial objects is the 4 6 billion year wisdom of Solar System events and by studying them at close quarters using spacecraft we can coerce them into revealing their closely guarded secrets This offers us the chance to answer some fundamental questions about our planet and its inhabitants Exploring comets and asteroids also allows us to shape the story of Earth s future enabling us to protect our precious planet from the threat of a catastrophic impact from space and maybe to even recover valuable raw materials from them This cosmic bounty could be as useful in space as it is on Earth providing the necessary fuel and supplies for humans as they voyage into deep space to explore more distant locations within the Solar System Catching Stardust tells the story of these enigmatic celestial objects revealing how scientists are using them to help understand a crucial time in our history the birth of the Solar System and everything contained within it **Love Understood** Laura Mucha,2019-01-29 For Love Understood almost 200 strangers in over 40 countries have come together to share their most personal stories feelings and insights about love These are incredibly frank intimate and illuminating conversations and author Laura Mucha has used these rare and varied insights as a springboard from which to dive into the subject of love scrutinizing it from all angles scientific psychological emotional and philosophical Romantic love is something that poets and artists have been trying to explain and define for centuries but it s still one of the most complicated and intimidating terrains to navigate specially when you re directly involved Psychologists see it as a basic human drive yet most people are afraid to be open and honest about it until now Each chapter begins with a personal story from someone Laura has spoken with and then goes on to explore the questions and themes that have arisen from the account intertwining the opinions of other interviewees with the empirical findings and insights of academics The interviews allow readers to connect with people of all backgrounds cultures and ages Sometimes they ll empathize sometimes they ll be challenged and at other times they ll find comfort Love Understood combines academic theory with everyday experience and is for anyone who is curious about how we as humans work when it comes to romantic love *Furry Logic* Matin Durrani,Liz Kalaugher,2016-10-06 The animal world is full of mysteries Why do dogs slurp from their drinking bowls while cats lap up water with a delicate flick of the tongue How does a tiny turtle hatchling from Florida circle the entire northern Atlantic before returning to the very beach where it hatched And how can a

Komodo dragon kill a water buffalo with a bite only as strong as a domestic cat's. These puzzles and many more besides are all explained by physics. From heat and light to electricity and magnetism *Furry Logic* unveils the ways that more than 30 animals exploit physics to eat, drink, mate and dodge death in their daily battle for survival. Along the way, science journalists Martin Durrani and Liz Kalaugher introduce the great physicists whose discoveries helped us understand the animal world as well as the animal experts of today who are scouring the planet to find and study the animals that seem to push the laws of physics to the limit. Presenting mind-bending physics principles in a simple and engaging way, *Furry Logic* will appeal both to animal lovers and to those curious to see how physics crops up in the natural world. It's more of a howdunit than a whodunit though you're unlikely to guess some of the answers.

**Science, the State and the City** Geoffrey Owen, Michael M. Hopkins, 2016-04-15. The book examines the evolution of one of the most important technologies that has emerged in the last fifty years: biotechnology, the use of living organisms or parts thereof to create useful products and services. The most important application of biotechnology has been in medicine in the development of new drugs. The central purpose of the book is to explain how firms based in the US took the lead in commercialising the technology and why it has been so difficult for firms in other countries to match what the leading American companies have achieved. The book looks at the institutions and policies which have underpinned US success in biotechnology. This is the US innovation ecosystem and it is made up of several interlocking elements which constitute a powerful competitive advantage for US biotechnology firms. These include a higher education system which has close links with industry, massive support from the Federal government for biomedical research and a financial system which is well equipped to support young entrepreneurial firms in a science-based industry. In the light of US experience, the book examines in detail the performance of UK biotechnology firms over the past forty years, starting with the creation of the UK's first dedicated biotech firm, Celltech, in 1980. The book shows how the UK made a promising start in the 1980s and 1990s but failed to build on it. Several leading firms failed and after an initial burst of enthusiasm, investors lost confidence in the British biotech sector. It is only the last few years that the sector has staged a revival, attracting fresh investment from the US as well as from the UK. The story told in this book, based on extensive interviews with industry participants, investors and policy makers in the UK, Continental Europe and the US, sheds new light on one of the central issues facing governments in the advanced industrial countries: how to create and sustain new science-based industries.

**The Edge of Memory** Patrick Nunn, 2018-08-23. How much of the folk tales of our ancestors is rooted in fact and what can they tell us about the future? In today's society, it is the written word that holds the authority. We are more likely to trust the words found in a history textbook over the version of history retold by a friend, after all, human memory is unreliable and how can you be sure your friend hasn't embellished the facts? But before humans were writing down their knowledge, they were passing it on in the form of stories. *The Edge of Memory* celebrates the predecessor of written information: the spoken word, tales from our ancestors that have been passed down, transmitting knowledge from one

generation to the next Among the most extensive and best analysed of these stories are from native Australian cultures These stories conveyed both practical information and recorded history describing a lost landscape often featuring tales of flooding and submergence Folk traditions such as these are increasingly supported by hard science Geologists are starting to corroborate the tales through study of climatic data sediments and land forms the evidence was there in the stories but until recently nobody was listening In this book Patrick Nunn unravels the importance of these tales exploring the science behind folk history from around the world including northwest Europe and India and what it can tell us about environmental phenomena from coastal drowning to volcanic eruptions These stories of real events were handed down the generations over thousands of years and they have broad implications for our understanding of how human societies have developed through the millennia and ultimately how we respond collectively to changes in climate our surroundings and the environment we live in

**My European Family** Karin Bojs, 2017-03-23 The story of Europe and its people told through its genetic legacy An extraordinary book part travel narrative part family history part scientific study Financial Times Karin Bojs grew up in a small broken family At her mother's funeral she felt this more keenly than ever As a science journalist she was eager to learn more about herself her family and the interconnectedness of society After all we're all related And in a sense we are all family My European Family tells the story of Europe and its people through its genetic legacy from the first wave of immigration to the present day weaving in the latest archaeological findings Karin goes deep in search of her genealogy by having her DNA sequenced she was able to trace the path of her ancestors back through the Viking and Bronze ages to the Neolithic and beyond into prehistory even back to a time when Neanderthals ran the European show Travelling to dozens of countries to follow the story she learns about early farmers in the Middle East and flute playing cavemen in Germany and France along with a whole host of other fascinating characters This book looks at genetics from a uniquely pan European perspective with the author meeting dozens of geneticists historians and archaeologists in the course of her research The genes of this seemingly ordinary modern European woman have a truly fascinating story to tell and in many ways it is the true story of Europe At a time when politics is pushing nations apart this book shows that ultimately our genes will always bind us together Winner of the 2015 Swedish August Prize

**Built on Bones** Brenna Hassett, 2017-02-23 The city has killed most of your ancestors and it's probably killing you too this book tells you why Imagine you are a hunter gatherer some 15 000 years ago You've got a choice carry on foraging or plant a few seeds and move to one of those new fangled settlements down the valley What you won't know is that urban life is short and riddled with dozens of new diseases your children will be shorter and sicker than you are they'll be plagued with gum disease and stand a decent chance of a violent death at the point of a spear Why would anyone choose this This is one of the many intriguing questions tackled by Brenna Hassett in Built on Bones Using research on skeletal remains from around the world this book explores the history of humanity's experiment with the metropolis and looks at why our ancestors chose city life and why they have largely stuck to

it It explains the diseases the deaths and the many other misadventures that we have unwittingly unleashed upon ourselves throughout the metropolitan past and as the world becomes increasingly urbanised what we can look forward to in the future Telling the tale of shifts in human growth and health that have occurred as we transitioned from a mobile to a largely settled species Built on Bones offers an accessible insight into a critical but relatively unheralded aspect of the human story our recent evolution

*Soccermatics* David Sumpter, 2016-05-05 Football looked at in a very different way Pat Nevin former Chelsea and Everton star and football media analyst Football the most mathematical of sports From shot statistics and league tables to the geometry of passing and managerial strategy the modern game is filled with numbers patterns and shapes How do we make sense of them The answer lies in the mathematical models applied in biology physics and economics Soccermatics brings football and mathematics together in a mind bending synthesis using numbers to help reveal the inner workings of the beautiful game This new and expanded edition analyses the current big name players and teams using mathematics and meets the professionals working inside football who use numbers and statistics to boost performance Welcome to the world of mathematical modelling expressed brilliantly by David Sumpter through the prism of football No matter who you follow from your local non league side to the big boys of the Premiership La Liga the Bundesliga Serie A or the MLS you ll be amazed at what mathematics has to teach us about the world s favourite sport

*PIG/PORK* Pía Spry-Marqués, 2017-07-13 Exploring the love hate relationship between humans and pigs through the lenses of archaeology biology history and gastronomy Pigs unite and divide people but why Pig Pork presents a close and affectionate look at the myriad causes underlying this singular multi millennial bond What is it that people in all four corners of the world find so fascinating about the pig When did the human obsession with pigs begin how did it develop through time and where is it heading Why are pigs so special to some of us but not to others Pig Pork sets out to answer these and other porcine related questions examining human pig interactions across the globe through time from the Palaeolithic to the present day The book dissects pig anatomy and behaviour and describes how this knowledge plays a major role in the advance of the agricultural and medical sciences among others The book also looks closely at the history of pig human interaction how they were domesticated and when how they affected human history through their diseases and how they have been involved in centuries of human conflicts with particular reference to the story of the Iberian Jews and Muslims at the time of the Inquisition The book goes on to look at how pigs characteristics and our relationship with them have combined to produce many of the world s great dishes All this is accompanied by a liberal peppering of pork recipes and the stories behind them along with facts wisdom and porker lore providing a thought provoking account of where our food comes from both historically and agriculturally and how this continues to influence many parts of our behaviour and culture

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