

# HOW TO WIN THE NOBEL PRIZE



{An Unexpected Life in Science}

**J. MICHAEL BISHOP**

# How To Win The Nobel Prize An Unexpected Life In Science

**Gregory J. Morgan**



## **How To Win The Nobel Prize An Unexpected Life In Science:**

*How to Win the Nobel Prize* J. Michael BISHOP, 2009-06-30 In 1989 Michael Bishop and Harold Varmus were awarded the Nobel Prize for their discovery that normal genes under certain conditions can cause cancer In this book Bishop tells us how he and Varmus made their momentous discovery More than a lively account of the making of a brilliant scientist *How to Win the Nobel Prize* is also a broader narrative combining two major and intertwined strands of medical history the long and ongoing struggles to control infectious diseases and to find and attack the causes of cancer Alongside his own story that of a youthful humanist evolving into an ambivalent medical student an accidental microbiologist and finally a world class researcher Bishop gives us a fast paced and engrossing tale of the microbe hunters It is a narrative enlivened by vivid anecdotes about our deadliest microbial enemies the Black Death cholera syphilis tuberculosis malaria smallpox HIV and by biographical sketches of the scientists who led the fight against these scourges Bishop then provides an introduction for nonscientists to the molecular underpinnings of cancer and concludes with an analysis of many of today's most important science related controversies ranging from stem cell research to the attack on evolution to scientific misconduct *How to Win the Nobel Prize* affords us the pleasure of hearing about science from a brilliant practitioner who is a humanist at heart Bishop's perspective will be valued by anyone interested in biomedical research and in the past present and future of the battle against cancer

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Reviews of this book Despite his book's encouraging title Bishop who won a Nobel Prize in Physiology and Medicine in 1989 cautions that I have not written an instruction manual for pursuit of the prize Instead he has written an amiable reflection on the experience of being a Nobelist intertwined with some history and anecdotes about the award and balanced by a wide ranging review of his own career as an accidental scientist Along the way Bishop reflects on the history of our knowledge of microbes cancer the politics of funding research and present day disenchantment with science His main purpose in writing this book Bishop says is to show that scientists are supremely human which he does with grace and charm Publishers Weekly Reviews of this book *How to Win the Nobel Prize* is typical Bishop modest funny insightful and offering an extremely clear and brief explanation of the basic scientific achievement that won the 1989 Nobel Prize in physiology or medicine for himself and longtime colleague Harold Varmus now president of the Memorial Sloan Kettering Cancer Center David Perlman San Francisco Chronicle Reviews of this book In these pages Bishop reveals himself as a good writer blessed with enviable clarity someone sensible and levelheaded who likes people and is enamored of his science John Tyler Bonner New York Times Book Review Reviews of this book This is a treasure Above all *How to Win the Nobel Prize* is a civilised book and a lavishly rewarding one Roy Herbert New Scientist Reviews of this book At its heart this analysis of science and the scientific world is a jewel *How to Win the Nobel Prize* is an inspirational book full of careful analysis and judgement John Oxford Times Higher Education Supplement

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**Nobel Prizes: Cancer, Vision And The Genetic Code** Erling Norrby,2019-09-18 The present book discusses the Nobel Prizes in physiology or medicine 1966-68 The 1966 prize recognized that viruses may be involved in cancer formation Later studies revealed that these kinds of infectious agents could pick up and transmit cellular genes of importance for regulation of cellular growth It was then possible to recognize that many genes of this kind could be involved in the formation of cancer The disease was found to represent the dark side of evolution As a consequence of this insight new means of treatment fortunately have been developed The rear parts of the eyes are extensions of the central nervous system They have a fascinating intrinsic complexity the neurophysiology and biochemistry of which has been progressively analyzed These revealing studies concern both our capacity to distinguish different colors and also our possibility to see in the dark The Prize in 1967 identified seminal contributions in this wide field by Ragnar Granit Haldan Hartline and George Wald The 1968 Prize is distinct in its recognition of Robert Holley Ghobind Khorana and Marshall Nirenberg who in different ways had contributed to the cracking of the genetic code Insights into the language used by Nature since the dawn of cellular life some 4.6 billion years ago have completely revolutionized modern life sciences The capacity to read and also to write the books of life has defined new kinds of science deepening our understanding of the magic of evolution and opened the possibilities for molecular medicine by understanding the genetic background to diseases not least cancer Related Links

**Medal Winners** Raymond S. Greenberg,2020-02-10 Examining an uplifting and unexpected outcome of a dark period in American history this book shows how the Vietnam War made the National Institutes of Health an unparalleled training ground for trailblazing scientists

The Art and Politics of Science Harold Varmus,2010-05-24 A Nobel Prize winning cancer biologist leader of major scientific institutions and scientific adviser to President Obama reflects on his remarkable career A PhD candidate in English literature at Harvard University Harold

Varmus discovered he was drawn instead to medicine and eventually found himself at the forefront of cancer research at the University of California San Francisco In this timely memoir of a remarkable career American Scientist Varmus considers a life's work that thus far includes not only the groundbreaking research that won him a Nobel Prize but also six years as the director of the National Institutes of Health his current position as the president of the Memorial Sloan Kettering Cancer Center and his important continuing work as scientific adviser to President Obama From this truly unique perspective Varmus shares his experiences from the trenches of politicized battlegrounds ranging from budget fights to stem cell research global health to science publishing

**Women Characters and Writers in Contemporary Literature** Dr. Ajda BAŞTAN,2020-09-04 This book is composed of my selected and published academic articles up to now My main research areas are women characters and violence in the British literature And in this work you can meet several women characters from the British literature who have inspired a great number of readers Besides Nobel Prize awarded women writers from all over the world are also mentioned here Furthermore some philosophical theories and mental diseases are discussed in brief I hope you will enjoy while reading this book

**Time, Life & Memory** Laurens Landeweerd,2020-12-03 This book revitalizes the relevance of the ideas of Henri Bergson 1859 1941 for current developments in exact sciences It explores the relevance of Bergson's thought for contemporary philosophical reflections on three of the most important scientific research areas of today namely physics the life sciences and the neurosciences It does so on the basis of the three interrelated topics of time life and memory Henri Bergson 1859 1941 was one of the most widely read philosophers of his era The European public was seeking for answers to questions of the soul and the nature of life and fitting within a historical niche between intellectual rationalism and intuitive spiritualism his writings drew much attention This work focuses on the relevance of his philosophy for developments in exact sciences today The discussion of physics in relation to the abstract and the concrete the life sciences in relation to concepts of life in relation to new and emerging biotechnology and the neurosciences in relation to the dual nature of human identity focuses on one main topic time Time isolated from experience as the measure of the events in the universe in modern physics time as the measure of emergent systems in evolution as the backdrop of the theory of evolution in biology time in relation to memory and imagination in neuropsychological accounts of memory The author thus discusses the ideas of Henri Bergson as a basis to unveil time as a living process rather than as an instrument for the measure of events This view forms the basis of a novel approach to the philosophy of technology An exciting book for academics interested in the interplay between hard sciences and philosophy

**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

**Modern Genetics** Lisa Yount,2006 Profiles geneticists and highlights discoveries they have made includes Gregor Mendel and the laws of inheritance James Watson and the structure of DNA and Stanley Cohen and genetic engineering

**Encyclopedia of Microbiology**,2009-01-14 Available as an exclusive product with a limited print run Encyclopedia of Microbiology 3e is a comprehensive survey of microbiology edited by world class researchers Each article is written by an expert in that specific domain and includes a glossary list of abbreviations defining statement introduction further reading and cross references to other related encyclopedia articles Written at a level suitable for university undergraduates the breadth and depth of coverage will appeal beyond undergraduates to professionals and academics in related fields 16 separate areas of microbiology covered for breadth and depth of content Extensive use of figures tables and color illustrations and photographs Language is accessible for undergraduates depth appropriate for scientists Links to original journal articles via Crossref 30% NEW articles and 4 color throughout NEW

**Medicine and Healers Through History** Kara Rogers Senior Editor, Biomedical Sciences,2011-01-15 A chronology of famous doctors and other medical professionals throughout history profiles their lasting accomplishments in the field of medicine from ancient civilizations through the Renaissance Victorian and modern eras

**The Serengeti Rules** Sean B. Carroll,2024-08-20 One of today s most accomplished biologists and gifted storytellers reveals the rules that regulate all life How does life work How does nature produce the right numbers of zebras and lions on the African savanna or fish in the ocean How do our bodies produce the right numbers of cells in our organs and bloodstream In The Serengeti Rules award winning biologist and author Sean Carroll tells the stories of the pioneering scientists who sought the answers to such simple yet profoundly important questions and shows how their discoveries matter for our health and the health of the planet we depend upon One of the most important revelations about the natural world is that everything is regulated there are rules that regulate the amount of every molecule in our bodies and rules that govern the numbers of every animal and plant in the wild And the most surprising revelation about the rules that regulate life at such different scales is that they are remarkably similar there is a common underlying logic of life Carroll recounts how our deep

knowledge of the rules and logic of the human body has spurred the advent of revolutionary life saving medicines and makes the compelling case that it is now time to use the Serengeti Rules to heal our ailing planet Bold and inspiring The Serengeti Rules illuminates how life works at vastly different scales Read it and you will never look at the world the same way again

Happy Accidents Morton A. Meyers, 2011-09 A fascinating and highly accessible look at the surprising role serendipity has played in some of the most important medical discoveries in the twentieth **The Truth in Small Doses** Clifton

Leaf, 2014-08-05 A decade ago Leaf a cancer survivor himself began to investigate why we had made such limited progress fighting this terrifying disease The result is a gripping narrative that reveals why the public's immense investment in research has been badly misspent why scientists seldom collaborate and share their data why new drugs are so expensive yet routinely fail and why our best hope for progress brilliant young scientists are now abandoning the search for a cure

**Functional Textiles for Improved Performance, Protection and Health** N Pan, G. Sun, 2011-06-21 The textile industry is increasingly based on ongoing innovation and development of higher performance products and the field of functional textiles is no exception This book explores the development of textiles with a wide range of functions with the aim of improving the performance of the product in terms of the protection and health benefits that it can offer The book is split into two parts Part one focuses on functional textiles for improved performance and protection with chapters reviewing antistatic flame retardant and infrared functional textiles among many others Chapters in part two examine the uses of functional textiles in a medical context including superhydrophobic materials antibacterial textiles and insect repellent materials With its distinguished editors and contributions from some of the world's leading authorities Functional textiles for improved performance protection and health is invaluable for textile scientists technologists and engineers as well as those designing and manufacturing textiles It is also a suitable reference for the academic sector Examines the use of functional textiles in a medical context including superhydrophobic materials antibacterial textiles and insect repellent materials Topics range from textile chemicals and their interaction with skin to novel pesticide protective clothing Considers anti ultraviolet protection of clothing and flame retardant textiles **The Emperor of All Maladies** Siddhartha Mukherjee, 2011-08-09

This edition includes a new interview with the author P 4 of cover Cancer Virus Hunters Gregory J. Morgan, 2022-08-02 Traces the history of the study of tumor viruses and its role in driving breakthroughs in cancer research Worldwide approximately one fifth of human cancers are caused by tumor viruses with hepatitis B virus and HPV being the leading culprits While the explosive growth in molecular biology in the late twentieth century is well known the role that the study of tumor viruses has played in driving many of the greatest breakthroughs is not Without the insights gained by studying tumor viruses many significant theoretical advancements over the last four decades in cellular and molecular biology would not have been made More practically the study of tumor viruses has saved thousands if not millions of lives In Cancer Virus Hunters Gregory J Morgan traces the high points in the development of tumor virology from Peyton Rous's pioneering work

on chicken tumors in 1909 to the successful development of an HPV vaccine for cervical cancer in 2006 Morgan offers a novel approach to understanding the interconnectedness of a long series of biomedical breakthroughs including those that led to seven Nobel prizes Among other advances Morgan describes and contextualizes the science that prompted the discoveries of reverse transcriptase RNA splicing the tumor suppressor p53 the vaccine for hepatitis B and the HIV test He also explores how cancer virus hunters have demonstrated the virtue of beginning with a simple system even when investigating a complex disease like cancer Based on extensive archival research and over fifty interviews with experts *Cancer Virus Hunters* is a tour de force summarizing a century of research to show how discoveries made with tumor viruses came to dominate the contemporary understanding of cancer By showcasing the scientists themselves the book makes for an unusually accessible journey through the history of science It will be of interest to biomedical professionals especially in oncology hepatology and infectious disease in addition to historians of science and anyone interested in cancer research

*Advances in Cancer Research* George F. Vande Woude, George Klein, 2007-12-17 The *Advances in Cancer Research* series provides invaluable information on the exciting and fast moving field of cancer research This volume presents outstanding and original reviews on a variety of topics including RUNX Genes in Development and Cancer The RNA Continent The c myc Promoter Designer Self Assembling Peptide Nanofiber Scaffolds for Study of 3 D Cell Biology and Beyond and Dendritic Cells in Cancer Immunotherapy *Boosting Pharmaceutical Innovation in the Post-TRIPS Era* Burcu Kiliç, 2014-07-31 *Boosting Pharmaceutical Innovation In The Post TRIPS Era* investigates the concept of innovation and illustrates the crucial role that patent strategies play within processes of pharmaceutical innovation Drawing on extensive country and company case studies it identifies the key issues relevant to the revival of local pharmaceutical industries **The 100 Most Influential**

**Medical Pioneers of All Time** Monica Gill, 2016-07-15 This book presents biographies of 100 individuals in the medical field responsible for everything from vaccinations to gene therapy It allows readers to understand how each pioneer built on the work of his or her peers and predecessors and how concepts relate to each other **Counseling About Cancer** Katherine A. Schneider, 2011-10-26 Important scientific discoveries and ever changing guidelines for how to identify and manage patients with hereditary cancer syndromes are constantly evolving This Third Edition of *Counseling About Cancer* is completely updated and expanded to feature five entirely new chapters on breast cancer colon cancer other solid tumors clients and families and genetic test results and follow up This is the only reference and clinical book on the market for cancer genetics counselors and other healthcare providers who must quickly assimilate complex and ever changing data on the hereditary risk for cancer

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