

# **Magic Bullets, Lost Horizons**

The Rise and Fall of AntiBiotics

**Sebastian G.B. Amyes**



**CRC Press**  
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# Magic Bullets Lost Horizons

**Sebastian G. B. Amyes**



## **Magic Bullets Lost Horizons:**

**Magic Bullets, Lost Horizons** Sebastian G. B. Amyes, 2001-09-13 *Magic Bullets, Lost Horizons* Sebastian G. B. Amyes, 2001-09-13 From the day that Paul Ehrlich hailed his newly discovered treatment for syphilis as the magic bullet antibiotics have transformed medical practice They are considered one of the miracle drugs of the 20th century However the massive and increasing misuse of these agents is More causing a problem of resistance that may prove to be one of the greatest threats to health in the 21st century *Magic Bullets Lost Horizons* aims to put some of the media sensationalism into perspective It examines not only the development of modern antibiotics but also the obstacles faced during application of the drugs and their expected efficacy in the future

**Magic Bullets, Lost Horizons** Finn Sandberg, 2001 An in depth account of the way antibiotics have transformed medical practice how certain diseases are developing an increased resistance to available treatments and how these cases are sensationalized in the media

Science and Technology in World History William E. Burns, 2020-02-07 This encyclopedia offers an interdisciplinary approach to studying science and technology within the context of world history With balanced coverage a logical organization and in depth entries readers of all inclinations will find useful and interesting information in its contents *Science and Technology in World History* takes a truly global approach to the subjects of science and technology and spans the entirety of recorded human history Topical articles and entries on the subjects are arranged under thematic categories which are divided further into chronological periods This format along with the encyclopedia's integrative approach offers an array of perspectives that collectively contribute to the understanding of numerous fields across the world and over eras of development Entries cover discussions of scientific and technological innovations and theories historical vignettes and important texts and individuals throughout the world From the discovery of fire and the innovation of agricultural methods in China to the establishment of surgical practices in France and the invention of Quantum Theory this encyclopedia offers comprehensive coverage of fascinating topics in science and technology through a straightforward historical lens

**Science and Technology in 20th-Century American Life** Christopher Cuno, 2007-08-30 The twentieth century witnessed the greatest changes in technology and science that humans have ever witnessed These occurred rapidly and affected such a broad range of people Scientists inventors and engineers built upon the great inventions of the 19th century to expand the reach of modern technology for a citizen in 1900 communication transportation and agricultural was still primarily local activities by 2000 an American citizen was part of an interconnected global community These developments in science and technology were also important in the social and cultural changes of the period The Great Depression the World Wars and Cold War the civil rights and women's rights movements all were greatly impacted by the rapid scientific and technological advancements in the universities and industry

Antibiotic Resistant Bacteria: A Challenge to Modern Medicine Sadhana Sagar, Shilpa Kaistha, Amar Jyoti Das, Rajesh Kumar, 2019-11-14 This book summarizes the emerging trends in the field of antibiotic resistance of various gram negative

and gram positive bacterial species The ability of different species of bacteria to resist the antimicrobial agent has become a global problem As such the book provides a comprehensive overview of the advances in our understanding of the origin and mechanism of resistance discusses the modern concept of the biochemical and genetic basis of antibacterial resistance and highlights the clinical and economic implications of the increased prevalence of antimicrobial resistant pathogens and their ecotoxic effects It also reviews various strategies to curtail the emergence and examines a number of innovative therapeutic approaches such as CRISPR phage therapy nanoparticles and natural antimicrobials to combat the spread of resistance

Clinical Pharmacology: Current Topics and Case Studies Markus Müller, 2011-02-04 Today we witness an eventful time in which the powerful new forces of genomics information technology and economics are rapidly changing the science and art of medicine This will require more specialization than ever before However there is also an increasing demand for an integrated approach which is provided by the discipline of Clinical Pharmacology CP CP pursues a scientific goal by studying drug action in patients and volunteers a clinical goal by administering appropriate drug therapy and a regulatory goal by assessing the risk benefit ratio of drug candidates in drug development and reimbursement This introduction to current topics of CP covers traditional topics of clinical drug research and trial methodology but also provides insight in current topics like genomics imaging technology and issues in drug reimbursement A number of concrete case studies in clinical drug research and development help to give a better understanding of the general principles of CP

**Encyclopedia of Pestilence, Pandemics, and Plagues** Joseph P. Byrne, 2008-09-30 Editor Joseph P Byrne together with an advisory board of specialists and over 100 scholars research scientists and medical practitioners from 13 countries has produced a uniquely interdisciplinary treatment of the ways in which diseases pestilence and plagues have affected human life From the Athenian flu pandemic to the Black Death to AIDS this extensive two volume set offers a sociocultural historical and medical look at infectious diseases and their place in human history from Neolithic times to the present Nearly 300 entries cover individual diseases such as HIV AIDS malaria Ebola and SARS major epidemics such as the Black Death 16th century syphilis cholera in the nineteenth century and the Spanish Flu of 1918 19 environmental factors such as ecology travel poverty wealth slavery and war and historical and cultural effects of disease such as the relationship of Romanticism to Tuberculosis the closing of London theaters during plague epidemics and the effect of venereal disease on social reform Primary source sidebars over 70 illustrations a glossary and an extensive print and nonprint bibliography round out the work

*Intellectual Property Rights And The Life Science Industries: Past, Present And Future (2nd Edition)* Graham Dutfield, 2009-05-05 This book is a highly readable and entertaining account of the co evolution of the patent system and the life science industries since the mid 19th century The pharmaceutical industries have their origins in advances in synthetic chemistry and in natural products research Both approaches to drug discovery and business have shaped patent law as have the lobbying activities of the firms involved and their supporters in the legal profession In turn patent law has impacted on the life science industries Compared to the

first edition which told this story for the first time the present edition focuses more on specific businesses products and technologies including Bayer Pfizer GlaxoSmithKline aspirin penicillin monoclonal antibodies and polymerase chain reaction Another difference is that this second edition also looks into the future addressing new areas such as systems biology stem cell research and synthetic biology which promises to enable scientists to invent life forms from scratch

**Streptomyces in Nature and Medicine** David A. Hopwood, 2007-02-03 This is an insiders account of 50 years of genetic studies of the soil inhabiting microbes that produce most of the antibiotics used to treat infections as well as anti cancer anti parasitic and immunosuppressant drugs The book begins by describing how these microbes the actinomycetes were discovered in the latter part of the nineteenth century but remained a Cinderella group until in the 1940s they shot to prominence with the discovery of streptomycin the first effective treatment for tuberculosis and only the second antibiotic after penicillin to become a medical marvel There followed a massive effort over several decades to find further treatments for infectious diseases and cancer tempered by the rise of antibiotic resistance consequent on antibiotic misuse and over use The book goes on to describe the discovery of gene exchange in the actinomycetes in the context of the rise of microbial genetics in the mid 20th century leading to determination of the complete DNA sequence of a model member of the group at the turn of the millennium There follow chapters in which the intricate molecular machinery that adapts the organisms metabolism and development to life in the soil including antibiotic production is illuminated by the DNA blueprint Then come an up to the minute account of the use of genetic engineering to make novel hybrid antibiotics and a topical description of techniques to learn the roles of the thousands of genes in a genome sequence throwing a powerful light on the biology of the organisms and their harnessing for increasing antibiotic productivity In the final chapter we return to the mycobacteria that cause tuberculosis and leprosy the first actinomycetes to be discovered and how methodology in part derived from the study of the streptomyces is being applied to understand and control these still deadly pathogens

**An Unnatural History of Emerging Infections** Ron Barrett, George Armelagos (the late), 2013-09-19 This book traces the social and environmental determinants of human infectious diseases from the Neolithic to the present day Despite recent high profile discoveries of new pathogens the major determinants of these emerging infections are ancient and recurring These include changing modes of subsistence shifting populations environmental disruptions and social inequalities The recent labeling of the term re emerging infections reflects a re emergence not so much of the diseases themselves but rather a re emerging awareness in affluent societies of long standing problems that were previously ignored An Unnatural History of Emerging Infections illustrates these recurring problems and determinants through an examination of three major epidemiological transitions The First Transition occurred with the Agricultural Revolution beginning 10 000 years ago bringing a rise in acute infections as the main cause of human mortality The Second Transition first began with the Industrial Revolution it saw a decline in infectious disease mortality and an increase in chronic diseases among wealthier nations but less so in poorer societies These

culminated in today's worst of both worlds syndrome in which globalization has combined with the challenges of the First and Second Transitions to produce a Third Transition characterized by a confluence of acute and chronic disease patterns within a single global disease ecology. This accessible text is suitable for advanced undergraduate and graduate level students and researchers in the fields of epidemiology, disease ecology, anthropology, health sciences and the history of medicine. It will also be of relevance and use to undergraduate students interested in the history and social dynamics of infectious diseases.

*Rang & Dale's Pharmacology* Humphrey P. Rang, Maureen M. Dale, James M. Ritter, Rod J. Flower, Graeme Henderson, 2011-04-14  
Rang Amino Acid Transmitters Analgesic Drugs Antidepressant Drugs and Drug Addiction Dependence Inflammatory Mediators Pharmacogenetics Pharmacogenomics Hydroxytyramine and Purines

**Fighting the First Wave** Peter Baldwin, 2021-03-18  
COVID 19 is the biggest public health and economic disaster of our time. It has posed the same threat across the globe yet countries have responded very differently and some have clearly fared much better than others. Peter Baldwin uncovers the reasons why in this definitive account of the global politics of pandemic. He shows that how nations responded depended above all on the political tools available: how firmly could the authorities order citizens' lives and how willingly would they be obeyed? In Asia nations quarantined the infected and their contacts. In the Americas and Europe they shut down their economies hoping to squelch the virus's spread. Others, above all Sweden, responded with a light touch, putting their faith in social consensus over coercion. Whether citizens would follow their leaders' requests and how soon they would tire of their demands were crucial to hopes of taming the pandemic.

*Global Catastrophes and Trends* Vaclav Smil, 2012-09-21  
A wide-ranging interdisciplinary look at global changes that may occur over the next fifty years, whether sudden and cataclysmic world-changing events or gradually unfolding trends. Fundamental change occurs most often in one of two ways: as a fatal discontinuity, a sudden catastrophic event that is potentially world-changing, or as a persistent gradual trend. Global catastrophes include volcanic eruptions, viral pandemics, wars, and large-scale terrorist attacks; trends are demographic, environmental, economic, and political shifts that unfold over time. In this provocative book, scientist Vaclav Smil takes a wide-ranging interdisciplinary look at the catastrophes and trends the next fifty years may bring. Smil first looks at rare but cataclysmic events, both natural and human-produced, then at trends of global importance, including the transition from fossil fuels to other energy sources and growing economic and social inequality. He also considers environmental change in some ways an amalgam of sudden discontinuities and gradual change and assesses the often-misunderstood complexities of global warming. *Global Catastrophes and Trends* does not come down on the side of either doom and gloom scenarios or techno-euphoria. Instead, Smil argues that understanding change will help us reverse negative trends and minimize the risk of catastrophe.

**Bacteria: A Very Short Introduction** Sebastian G.B. Amyes, 2013-05-30  
In this *Very Short Introduction*, Sebastian Amyes explores the nature of bacteria. As a fundamental branch of life, they inhabit every part of the Earth's surface. Amyes examines their origin and evolution, bacteria in the environment,

and bacteria and disease to demonstrate the fundamental role they play in our existence *Cold War Resistance* Marc Landas,2020-10 In *Cold War Resistance* Marc Landas uncovers the dark history behind the discovery production and distribution of antibiotics and how the Cold War played a role in today's worsening resistance to antibiotics **That High Design Of Purest Gold: A Critical History Of The Pharmaceutical Industry, 1880-2020** Graham Dutfield,2020-11-11 This book is a history of medicines and the commercial actors that make and sell them covering the 140 years since the modern pharmaceutical industry came into being It is written in a lively and accessible way aiming at a general audience that combines historical narrative with fascinating case studies on drug discovery and commercialization from the rat poison that became warfarin to a cardiovascular treatment that was turned into Viagra In a non partisan way it also examines some of the less noble manifestations of corporate behavior concluding with an agenda for reform It is hard to think of anything nobler than to bring to the world a medicine that saves lives And over 140 years of history the pharmaceutical industry has produced a range of remarkable products albeit typically with external scientific and financial support Making medicines is a very big and profit driven business and the industry does not always make the right products for the right people or at the right prices The industry wields immense power over lives and economies How has it risen to this position of dominance Are the interests of the industry and the public in balance What should we admire about the industry What should we criticise and seek to change The importance of this book lies in the fact that we are all stakeholders in this industry whether or not we own shares so we all need answers to these questions Related Link s **The Wiley Blackwell Companion to Medical Sociology** William C. Cockerham,2021-03-22 A comprehensive collection of original essays by leading medical sociologists from around the world fully updated to reflect contemporary research and global health issues The Wiley Blackwell Companion to Medical Sociology is an authoritative overview of the most recent research major theoretical approaches and central issues and debates within the field Bringing together contributions from an international team of leading scholars this wide ranging volume summarizes significant new developments and discusses a broad range of globally relevant topics The Companion's twenty eight chapters contain timely theoretically informed coverage of the coronavirus pandemic and emerging diseases bioethics healthcare delivery systems health disparities associated with migration social class gender and race It also explores mental health the family religion and many other real world health concerns The most up to date and comprehensive single volume reference on the key concepts and contemporary issues in medical sociology this book Presents thematically organized essays by authors who are recognized experts in their fields Features new chapters reflecting state of the art research and contemporary issues relevant to global health Covers vital topics such as current bioethical debates and the global effort to cope with the coronavirus pandemic Discusses the important relationship between culture and health in a global context Provide fresh perspectives on the sociology of the body biomedicalization health lifestyle theory doctor patient relations and social capital and health The Wiley Blackwell Companion to Medical Sociology is essential reading for advanced

undergraduate and graduate students in medical sociology health studies and health care as well as for academics researchers and practitioners wanting to keep pace with new developments in the field     *Bacteria* Sebastian G. B. Amyes, 2022-05-26 Very Short Introductions Brilliant Sharp Inspiring Bacteria form a fundamental branch of life They are the oldest forms of life as we know it and they are still the most prolific living organisms They inhabit every part of the Earth s surface its ocean depths and even terrains such as boiling hot springs They are most familiar as agents of disease but benign bacteria are critical to the recycling of elements and all ecology as well as to human health In this Very Short Introduction Sebastian G B Amyes explores the nature of bacteria their origin and evolution bacteria in the environment and bacteria and disease In this new edition he examines the ethical implications of synthetic bacteria the evolving technologies used to combat antibiotics resistance and the role bacteria play in the evolutionary development of humans ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable     *In Silico Dreams* Brian S. Hilbush, 2021-07-28 Learn how AI and data science are upending the worlds of biology and medicine In *Silico Dreams* How Artificial Intelligence and Biotechnology Will Create the Medicines of the Future delivers an illuminating and fresh perspective on the convergence of two powerful technologies AI and biotech Accomplished genomics expert executive and author Brian Hilbush offers readers a brilliant exploration of the most current work of pioneering tech giants and biotechnology startups who have already started disrupting healthcare The book provides an in depth understanding of the sources of innovation that are driving the shift in the pharmaceutical industry away from serendipitous therapeutic discovery and toward engineered medicines and curative therapies In this fascinating book you ll discover An overview of the rise of data science methods and the paradigm shift in biology that led to the in silico revolution An outline of the fundamental breakthroughs in AI and deep learning and their applications across medicine A compelling argument for the notion that AI and biotechnology tools will rapidly accelerate the development of therapeutics A summary of innovative breakthroughs in biotechnology with a focus on gene editing and cell reprogramming technologies for therapeutic development A guide to the startup landscape in AI in medicine revealing where investments are poised to shape the innovation base for the pharmaceutical industry Perfect for anyone with an interest in scientific topics and technology In *Silico Dreams* also belongs on the bookshelves of decision makers in a wide range of industries including healthcare technology venture capital and government



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