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KEY=DISCOVERY - BALLARD WILLIAMS

Parasites and Infectious Disease

Discovery by Serendipity and Otherwise

Cambridge University Press Engaging introduction to the key discoveries that have shaped the field of parasitology.

Parasites and Infectious Disease

Discovery by Serendipity, and Otherwise

Engaging introduction to the key discoveries that have shaped the field of parasitology.

Emerging Infectious Diseases

Parasitism

The Diversity and Ecology of Animal Parasites

Cambridge University Press Synthesizes the latest developments in the ecology and evolution of animal parasites for a new generation of parasitologists.

Epidemics and Pandemics: From Ancient Plagues to Modern-Day Threats [2 volumes]

ABC-CLIO Beyond their impact on public health, epidemics shape and are shaped by political, economic, and social forces. This book examines this connection, exploring key topics in the study of disease outbreaks and delving deep into specific historical and contemporary examples. From the Black Death that ravaged Europe in the 14th century to the influenza pandemic following World War I to the novel strain of coronavirus that made "social distancing" the new normal, wide-scale disease outbreaks have played an important role throughout human history. In addition to the toll they take on human lives, epidemics have spurred medical innovations, toppled governments, crippled economies, and led to cultural revolutions. Epidemics and Pandemics: From Ancient Plagues to Modern-Day Threats provides readers with a holistic view of the terrifying—and fascinating—topic of epidemics and pandemics. In Volume 1, readers will discover what an epidemic is, how it emerges and spreads, what diseases are most likely to become epidemics, and how disease outbreaks are tracked, prevented, and combated. They will learn about the impacts of such modern factors as global air travel and antibiotic resistance, as well as the roles played by public health agencies and the media. Volume 2 offers detailed case studies that explore the course and lasting significance of individual epidemics and pandemics throughout history. Examines the topic from a number of angles, offering readers a holistic view of how epidemics and pandemics have affected and continue to affect the world Explains the science behind the emergence and spread of disease in easy-to-

understand, jargon-free language Considers issues relevant to today's readers, including the impact of the anti-vaccination movement, climate change, global travel, and antibiotic resistance Offers a detailed look at the most famous examples of epidemics and pandemics throughout history, using a standardized format that makes finding information quick and easy

Kenneth Warren and the Great Neglected Diseases of Mankind Programme

The Transformation of Geographical Medicine in the US and Beyond

Springer Kenneth Warren was a powerful figure in twentieth century medicine whose work transformed public health policy and tropical medicine, and who left a profound legacy in global health thinking. A prolific writer and researcher, Warren was respected for his scientific research, winning awards and accolades, while his later role as activist, agitator, innovator and connoisseur of science brought him international recognition. His career in medicine is remembered for three enduring achievements: · His efforts to introduce modern biomedical science to the study of infectious diseases in the developing world · The proselytising energy he brought to the ethical challenge of how to provide the most cost-effective health care to the world's poorest people · His tenure as Director of Health Sciences at the Rockefeller Foundation, during which time he inaugurated the Great Neglected Diseases of Mankind Programme Told through personal interviews with both Warren's supporters and detractors, the story of Warren's career, inexorably interwoven with the GND programme, is a compelling narrative that has not only enduring implications for current medical research, funding and healthcare across the globe, but also a long-standing legacy for the future ways in which we combat disease in the developing world.

Parasites

Tales of Humanity's Most Unwelcome Guests

Univ of California Press The evolution and life history of parasites, their role in shaping human history, as well as future threats posed by them.

A Century of Parasitology

Discoveries, Ideas and Lessons Learned by Scientists who Published in The Journal of Parasitology, 1914-2014

John Wiley & Sons Reviews key areas in ecological, medical and molecular parasitology Features essays from some of the world's leading parasitologists Each topic is set in context by featuring a key paper from the Journal of Parasitology over the past 100 years

The Silwood Circle

A History of Ecology and the Making of Scientific Careers in Late Twentieth-Century Britain

World Scientific This is an original and wide-ranging account of the careers of a close-knit group of highly influential ecologists working in Britain from the late 1960s onwards. The book can also be read as a history of some recent developments in ecology. One of the group, Robert May, is a past president of the Royal Society, and the author of what many see as the most important treatise in

theoretical ecology of the later twentieth century. That the group flourished was due not only to May's intellectual leadership, but also to the guiding hand of T. R. E. Southwood. Southwood ended his career as Linacre Professor of Zoology at the University of Oxford, where he also served a term as Vice-Chancellor. Earlier, as a professor and director of the Silwood Park campus of Imperial College London, he brought the group together. Since it began to coalesce at Silwood it has been named here the Silwood Circle. Southwood promoted the interests of its members with the larger aim of raising the profile of ecological and environmental science in Britain. Given public anxiety over the environment and the loss of ecosystems, his actions were well-timed. Ecology, which had been on the scientific margins in the first half of the twentieth century, came to be viewed as a science central to modern existence. The book illustrates its importance to many areas. Members of the Silwood Circle have acted as government advisors in the areas of conservation and biodiversity, resource management, pest control, food policy, genetically modified crops, sustainable agriculture, international development, defence against biological weapons, and epidemiology and infectious disease control. In recounting the science they carried out, and how they made their careers, the book reflects also on the role of the group, and the nature of scientific success.

Parasites

The Inside Story

Princeton University Press An exciting look at the essential roles that parasites play in Earth's ecosystems This book looks at the weird and wonderful world of parasites, the most abundant form of life on Earth. Parasites come in all forms and sizes and inhabit every free-living organism. Parasitism is now, and always has been, a way to survive under changing environmental conditions. From arctic oceans to tropical forests, Scott Gardner, Judy Diamond, and Gabor Racz investigate how parasites survive and evolve, and how they influence and provide stability to ecosystems. Taking readers to the open ranges of Mongolia, the Sandhills of north-central Nebraska, the Andes of Bolivia, and more, the authors examine the impact parasites have on humans and other animals. Using examples of parasites from throughout the tree of life, the authors describe parasite-host relationships as diverse as those between trematodes and snails and tapeworms and whales. They even consider the strange effects of thorny-headed worms on their hosts. Parasites offer clues to the evolutionary history of particular regions, and they can provide insights into the history of species interactions. Through parasites, biologists can weave together a global knowledge of the past to predict the challenges that we will face in the future. Revealing that parasites are so much more than creepy-crawlies, this book gives up-to-date context for these critical members of the

biological diversity of our planet.

Ecological Parasitology

Reflections on 50 Years of Research in Aquatic Ecosystems

John Wiley & Sons Professor Gerald Esch has already published two books in what is becoming an informal series of essays exploring the way that discoveries about the biology of parasites have influenced ecological and evolutionary theories over a career that has spanned nearly 50 years. This book will be the third set of essays and will focus on key moments of discovery and explore how these achievements were due to collaboration, mentoring, and community building within the field of ecological parasitology. The book will not only describe case studies, pure science and biology but also act as a career guide for early-career ecologists emphasizing the importance of collaboration in the advancement of science.

Encyclopedia of Food Safety

Academic Press With the world's growing population, the provision of a safe, nutritious and wholesome food supply for all has become a major challenge. To achieve this, effective risk management based on sound science and unbiased information is required by all stakeholders, including the food industry, governments and consumers themselves. In addition, the globalization of the food supply requires the harmonization of policies and standards based on a common understanding of food safety among authorities in countries around the world. With some 280 chapters, the Encyclopedia of Food Safety provides unbiased and concise overviews which form in total a comprehensive coverage of a broad range of food safety topics, which may be grouped under the following general categories: History and basic sciences that support food safety; Foodborne diseases, including surveillance and investigation; Foodborne hazards, including microbiological and chemical agents; Substances added to food, both directly and indirectly; Food technologies, including the latest developments; Food commodities, including their potential hazards and controls; Food safety management systems, including their elements and the roles of stakeholders. The Encyclopedia provides a platform for experts from the field of food safety and related fields, such as nutrition, food science and technology and environment to share and learn from state-of-the art expertise

with the rest of the food safety community. Assembled with the objective of facilitating the work of those working in the field of food safety and related fields, such as nutrition, food science and technology and environment - this work covers the entire spectrum of food safety topics into one comprehensive reference work The Editors have made every effort to ensure that this work meets strict quality and pedagogical thresholds such as: contributions by the foremost authorities in their fields; unbiased and concise overviews on a multitude of food safety subjects; references for further information, and specialized and general definitions for food safety terminology In maintaining confidence in the safety of the food supply, sound scientific information is key to effectively and efficiently assessing, managing and communicating on food safety risks. Yet, professionals and other specialists working in this multidisciplinary field are finding it increasingly difficult to keep up with developments outside their immediate areas of expertise. This single source of concise, reliable and authoritative information on food safety has, more than ever, become a necessity

Tsetse and Trypanosomiasis Information

Attention and Responsibility in Global Health

The Currency of Neglect

Routledge Attention and Responsibility in Global Health shows the construction of health through what is neglected and how the label of neglect is used, to make the case that shift in attitudes towards tropical diseases is based on changing cultures of health and disease. Tropical diseases have moved from being of high importance for European empires to being neglected and unknown, and then returning to the spotlight once again. During this process, the understanding, framing and overall character of the disease grouping has changed through a rediscovery of a health issue once rendered neglectable. The book depicts this change in relevance of tropical diseases from colonial history to the present day diseases across political, cultural, and socio-economic contexts. It shows the transformation of tropical diseases as a grouping that uncovers the changing strategies, tactics and unintended consequences used in advocacy campaigning by scientists, NGOs and policymakers to drive disease issues up the policy agenda. Drawing on the emergent field of ignorance studies, the book explores ideas about the uses and deployment of strategic "not knowing". It is aimed at academics and students in science and technology studies, the sociology of health and medicine, environmental sociology, public policy, and the history of science.

Epidemic

The Past, Present and Future of the Diseases that Made Us

Summersdale Publishers LTD - ROW At the threshold of the third millennium, we are more vulnerable to mass epidemics than at any time in our history. Some infectious agents - MRSA, acinetobacter baumannii, Tuberculosis, HIV - are becoming resistant to nearly all available antibiotics. Differences in travel and social behaviour spread infections more widely; and, with changes in climate, diseases are either being described for the first time, or appearing in previously unaffected areas. In this fascinating book, infectious disease expert Robert Baker looks at the science, the history and the future of epidemics. He shows what epidemics really are, how they begin and transmit, the various types they are and what they can cause. Following some of the greatest plagues and epidemics of the past - bubonic plague, the great pox, the small pox - he shows the changing world of infectious disease and the possible infections lurking around the corner.

Happy Accidents

Serendipity in Major Medical Breakthroughs in the Twentieth Century

Simon and Schuster The eureka moments behind discoveries from penicillin to Pap smears: "A character-rich account of the role of chance in scientific research . . . Illuminating." —Kirkus Reviews What do penicillin, chemotherapy drugs, X-rays, Valium, the Pap smear, and Viagra have in common? They were each discovered accidentally, stumbled upon in the search for something else. In the 1990s, Pfizer had high hopes for a new drug that would boost blood flow to the heart. As they conducted trials on angina sufferers, researchers noted a startling effect: while the drug did not affect blood flow to the heart, it did affect blood flow elsewhere! Now over

six million American men have taken Viagra in their lifetime. Winston Churchill once said, “Men occasionally stumble across the truth, but most of them pick themselves up and hurry off as if nothing has happened.” Within the scientific community, a certain stigma is attached to chance discovery because it is wrongly seen as pure luck. Happy accidents certainly happen every day, but it takes intelligence, insight, and creativity to recognize a “Eureka, I found what I wasn't looking for!” moment, and know what to do next. In discussing medical breakthroughs, Dr. Morton Meyers makes a cogent, highly engaging argument for a more creative, rather than purely linear, approach to science—that may just save our lives. “The anecdotes are lively and filled with miniportraits of important doctors like Paul Ehrlich (who pioneered the use of chemistry to develop medical treatments) and Arthur Voorhees (who stumbled onto the treatment for abdominal aortic aneurysms).” —Publishers Weekly “Original and highly enjoyable.” —Robert Fuchgott, Nobel Laureate in Medicine

Taking the Fear Out of Eating

Cambridge University Press An authoritative, scientifically-based guide for anyone who wants to find out the truth about food and nutrition.

Lectures for the XXIst Century

Leuven University Press

Strategic Alliances as Social Facts

Business, Biotechnology, and Intellectual History

Cambridge University Press Thought-provoking, insightful analysis examining social dimension of strategic alliances based on in-depth biotechnology case studies.

Discovering Precision Health

Predict, Prevent, and Cure to Advance Health and Well-Being

John Wiley & Sons Today we are on the brink of a much-needed transformative moment for health care. The U.S. health care system is designed to be reactive instead of preventive. The result is diagnoses that are too late and outcomes that are far worse than our level of spending should deliver. In recent years, U.S. life expectancy has been declining. Fundamental to realizing better health, and a more effective health care system, is advancing the disruptive thinking that has spawned innovation in Silicon Valley and throughout the world. That's exactly what Stanford Medicine has done by proposing a new vision for health and health care. In Discovering Precision Health, Lloyd Minor and Matthew Rees describe a holistic approach that will set health care on the right track: keep people healthy by preventing disease before it starts and personalize the treatment of individuals precisely, based on their specific profile. With descriptions of the pioneering work undertaken at Stanford Medicine, complemented by fascinating case studies of innovations from entities including the Chan Zuckerberg Biohub, GRAIL, and Impossible Foods, Minor and Rees present a dynamic vision for the future of individual health and health care. You'll see how tools from smartphone technology to genome sequencing to routine blood tests are helping avert illness and promote health. And you'll learn about the promising progress already underway in bringing greater precision to the process of predicting, preventing, and treating a range of conditions, including allergies, mental illness, preterm birth, cancer, stroke, and autism. The book highlights how biomedical advances are dramatically improving our ability to treat and cure complex diseases, while emphasizing the need to devote more attention to social, behavioral, and environmental factors that are often the primary determinants of health. The authors explore thought-provoking topics including: The unlikely role of Google Glass in treating autism How gene editing can advance precision in treating disease What medicine can learn from aviation liHow digital tools can contribute to health and innovation Discovering Precision Health showcases entirely new ways of thinking about health and health care and can help empower us to lead healthier lives.

Current Bibliography of Epidemiology

Monthly, with annual cumulations. Comprehensive, current index to periodical medical literature intended for use of practitioners, investigators, and other workers in community medicine who are concerned with the etiology, prevention, and control of disease. Citations are derived from MEDLARS tapes for Index medicus of corresponding date. Arrangement by 2 sections, i.e., Selected subject headings, and Diseases, organisms, vaccines. No author index.

Polypharmacology in Drug Discovery

John Wiley & Sons An essential outline of the main facets of polypharmacology in drug discovery research Extending drug discovery opportunities beyond the "one drug, one target" philosophy, a polypharmacological approach to the treatment of complex diseases is emerging as a hot topic in both industry and academic research. Polypharmacology in Drug Discovery presents an overview of the various facets of polypharmacology and how it can be applied as an innovative concept for developing medicines for treating bacterial infections, epilepsy, cancer, psychiatric disorders, and more. Filled with a collection of instructive case studies that reinforce the material and illuminate the subject, this practical guide: Covers the two-sided nature of polypharmacology—its contribution to adverse drug reactions and its benefit in certain therapeutic drug classes Addresses the important topic of polypharmacology in drug discovery, a subject that has not been thoroughly covered outside of scattered journal articles Overviews state-of-the-art approaches and developments to help readers understand concepts and issues related to polypharmacology Fosters interdisciplinary drug discovery research by embracing computational, synthetic, in vitro and in vivo pharmacological and clinical aspects of polypharmacology A clear road map for helping readers successfully navigate around the problems involved with promiscuous ligands and targets. Polypharmacology in Drug Discovery provides real examples, in-depth explanations and discussions, and detailed reviews and opinions to spark inspiration for new drug discovery projects.

Parasitism

The Diversity and Ecology of Animal Parasites

Cambridge University Press Explains parasite biology as a branch of ecology - essential reading for zoology and ecology students.

Dictionary of Pharmacy

Definitions of terms and expressions used in the practice of pharmacy. Includes prescription order notations and abbreviations.

An Introduction to Parasitology

Cambridge University Press Concise and affordable introductory level undergraduate textbook, highly illustrated and clearly written.

Artifacts from Modern America

ABC-CLIO This intriguing book examines how material objects of the 20th century—ranging from articles of clothing to tools and weapons, communication devices, and toys and games—reflect dominant ideas and testify to the ways social change happens. • Supplies numerous examples of the ways in which American innovation depended on immigrants who invented new technologies and contributed immeasurably towards a uniquely powerful American economy • Demonstrates how American material life was created through globalization, from products imported into this country, such as Atari's video game console, to American products dependent upon imported materials, such as American cigarettes that used imported tobacco, and the coffee percolator on the kitchen table, serving up imported brewed coffee beans • Highlights how the ongoing struggle to achieve true equality and democracy is evidenced through objects such as a voting machine from 1900, the bus that Rosa Parks boarded, the buttons worn by gay rights activists, and the robe Muhammad Ali, a converted Muslim American, fought in—material items that played a role in the ongoing project of American political life

Dictionary of Pharmacy

CRC Press The Dictionary of Pharmacy is the only English-language reference currently available that provides a comprehensive list of terms of special importance to pharmacy students, educators, and practitioners. Compiled by educators from leading pharmacy

schools headed by Dennis B. Worthen, this guide defines all of the jargon surrounding this ever-evolving field. In addition to a complete A-Z listing of definitions, you'll find: abbreviations; Latin/Greek terms; weights and measures; the American Pharmacists Association's Code of Ethics and Principles of Practice for Pharmaceutical Care; the American Association of Colleges of Pharmacy's Pledge of Professionalism and Pharmacist's Oath; lists of professional associations and organizations; and lists of colleges of pharmacy in the United States and schools of schools of pharmacy (and their faculties) in Canada.

Infectious

Pathogens and How We Fight Them

Simon and Schuster 'The perfect gift for the armchair epidemiologist' Wall Street Journal Nature wants you dead. Not just you, but your children and everyone you have ever met and everyone they have ever met; in fact, everyone. It wants you to cough and sneeze and poop yourself into an early grave. It wants your blood vessels to burst and pustules to explode all over your body. And - until recently - it was really good at doing this... The subject of infection and how to fight it grows more urgent every day. How do pathogens cause disease? And what tools can we give our bodies to do battle? Infectious is not only a vital overview of what goes awry in our bodies, but also a hopeful story of ongoing human ingenuity.

The Vitamins

Academic Press The fourth edition of this bestselling text will again provide the latest coverage of the biochemistry and physiology of vitamins and vitamin-like substances. Extensively revised and expanded on the basis of recent research findings with enlarged coverage of health effects of vitamin-like factors, it is ideally suited for students and an important reference for anyone interested in nutrition, food science, animal science or endocrinology. It contains a cohesive and well-organized presentation of each of the vitamins, as well as the history of their discoveries and current information about their roles in nutrition and health. Selected for inclusion in Doody's Core Titles 2013, an essential collection development tool for health sciences libraries Includes approximately 30% new material Substantial updates have been made to chapters on vitamins A, C, E, K, folate, and the quasi-vitamins Provides checklists of systems affected by vitamin deficiencies and food sources of vitamins Key concepts, learning objectives, vocabulary, case studies, study questions and additional reading lists are included making this ideally suited for students Thoroughly updated with

important recent research results, including citations to key reports, many added tables and several new figures Addition of Health and Nutrition Examination Survey (HANES III) data Updated Dietary Reference Values

Contagious and Non-contagious Infectious Diseases Sourcebook

Basic Information about Contagious Diseases Like Measles, Polio, Hepatitis B, and Infectious Mononucleosis, Non-contagious Infectious Diseases Like Tetanus and Toxic Shock Syndrome, and Diseases Occurring as Secondary Infections Such as Shingles and Reye Syndrome Along with Vaccination, Prevention, and Treatment Information and a Section Describing Emerging Infectious Disease Threats

Omnigraphics Incorporated Provides basic information about infectious diseases such as measles, influenza, tetanus, and shingles; and includes recommendations on vaccination and immunization, as well as advice on taking antibiotics, an introduction to viruses,

and discussion of emerging infectious disease threats.

Biomarkers in Drug Development

A Handbook of Practice, Application, and Strategy

John Wiley & Sons Discover how biomarkers can boost the success rate of drug development efforts As pharmaceutical companies struggle to improve the success rate and cost-effectiveness of the drug development process, biomarkers have emerged as a valuable tool. This book synthesizes and reviews the latest efforts to identify, develop, and integrate biomarkers as a key strategy in translational medicine and the drug development process. Filled with case studies, the book demonstrates how biomarkers can improve drug development timelines, lower costs, facilitate better compound selection, reduce late-stage attrition, and open the door to personalized medicine. Biomarkers in Drug Development is divided into eight parts: Part One offers an overview of biomarkers and their role in drug development. Part Two highlights important technologies to help researchers identify new biomarkers. Part Three examines the characterization and validation process for both drugs and diagnostics, and provides practical advice on appropriate statistical methods to ensure that biomarkers fulfill their intended purpose. Parts Four through Six examine the application of biomarkers in discovery, preclinical safety assessment, clinical trials, and translational medicine. Part Seven focuses on lessons learned and the practical aspects of implementing biomarkers in drug development programs. Part Eight explores future trends and issues, including data integration, personalized medicine, and ethical concerns. Each of the thirty-eight chapters was contributed by one or more leading experts, including scientists from biotechnology and pharmaceutical firms, academia, and the U.S. Food and Drug Administration. Their contributions offer pharmaceutical and clinical researchers the most up-to-date understanding of the strategies used for and applications of biomarkers in drug development.

Happy Accidents

Serendipity in Modern Medical Breakthroughs

Arcade Publishing A look at the role of serendipity in major medical and scientific breakthroughs of the twentieth century explains how chance led to the discovery of such medical advances as penicillin, chemotherapy drugs, X-rays, Valium, and Viagra

Seeds of Discovery

A Sequel to The Art of Scientific Investigation

Heinemann Educational Publishers

A Dictionary of Public Health

Oxford University Press, USA An alphabetical listing of almost 5,000 words and phrases used in public health, with definitions, discussion, and occasional brief commentary on their relevance to people and to their health.

Unmaking the West

"what-if" Scenarios that Rewrite World History

University of Michigan Press What if the Persians had won at Salamis? What if Christ had not been crucified? What if the Chinese had harnessed steam power before the West? Disparaged by some as a mere parlor game, counterfactual history is seen by others as an indispensable historical tool. Taking as their point of inquiry the debate over the inevitability of the rise of the West, the eminent scholars in Unmaking the West argue that there is no escaping counterfactual history. Whenever we make claims of cause and effect, we commit ourselves to the assumption that if key links in the causal chain were broken, history would have unfolded otherwise. Likewise, without counterfactual history we all too easily slip into the habit of hindsight bias, forgetting, as soon as we learn what happened, how unpredictable the world looked beforehand, and closing our minds to all the ways the course might have changed.

This collection is thus both an exploration of alternative scenarios to world history and an exercise in testing the strengths and weaknesses of counterfactual experiments. "If ever there was an argument for the usefulness of counterfactual history, this admirable, and admirably focused, collection has convincingly made it." —Robert Cowley, editor of the What If?™ series "With chapters ranging from politics to war to religion to economics and to science and technology, this is the most thematically wide-ranging collection on counterfactuality. An intelligent, cutting-edge study with important things to say." —Jonathan C. D. Clark, Department of History, University of Kansas "This volume is likely to become a standard reference in the literature on historical methodology, and could have a dramatic impact on the way future generations of historians approach disciplinary inquiry. . . . By allowing readers to share in the doubts and epiphanies that lead up to the authors' epistemological revelations, the volume allows readers to grasp the rich potential of approaching their own research from a counterfactual perspective." —Aaron Belkin, Associate Professor of Political Science, University of California, Santa Barbara Philip E. Tetlock is Mitchell Professor, Haas School of Business, University of California, Berkeley, and author of Expert Political Judgment: How Good Is It? How Can We Know? Richard Ned Lebow is James O. Freedman Presidential Professor of Government at Dartmouth College and author of The Tragic Vision of Politics: Ethics, Interests and Orders, winner of the Alexander L. George Award for the best book in political psychology. Geoffrey Parker is Andreas Dorpalen Professor of History at Ohio State University, a Fellow of the British Academy, and author of The Military Revolution: Military Innovation and the Rise of the West, 1500-1800, winner of two book prizes.

Penicillin

Triumph and Tragedy

Oxford University Press on Demand Penicillin is the drug of the twentieth century. It was the first of the antibiotics that, for decades after the Second World War, underpinned a popular belief that the threat of infectious disease had at last met its match. With the emergence of 'superbugs' these hopes have faded. Robert Bud pulls these different but conjoined stories into a compelling narrative: using a wealth of new research, he sets the discovery and use of penicillin in the broader context of social and cultural change across the world. His book will be of great interest to historians, scientists, and anyone wishing to understand this drug's seismic impact on our lives.

Yellowstone Wolves

Science and Discovery in the World's First National Park

University of Chicago Press In 2020, it will have been twenty-five years since one of the greatest wildlife conservation and restoration achievements of the twentieth century took place: the reintroduction of wolves to the world's first national park, Yellowstone. Eradicated after the park was established, then absent for seventy years, these iconic carnivores returned to Yellowstone in 1995 when the US government reversed its century-old policy of extermination and—despite some political and cultural opposition—began the reintroduction of forty-one wild wolves from Canada and northwest Montana. In the intervening decades, scientists have studied their myriad behaviors, from predation to mating to wolf pup play, building a one-of-a-kind field study that has both allowed us to witness how the arrival of top predators can change an entire ecosystem and provided a critical window into impacts on prey, pack composition, and much else. Here, for the first time in a single book, is the incredible story of the wolves' return to Yellowstone National Park as told by the very people responsible for their reintroduction, study, and management. Anchored in what we have learned from Yellowstone, highlighting the unique blend of research techniques that have given us this knowledge, and addressing the major issues that wolves still face today, this book is as wide-ranging and awe-inspiring as the Yellowstone restoration effort itself. We learn about individual wolves, population dynamics, wolf-prey relationships, genetics, disease, management and policy, newly studied behaviors and interactions with other species, and the rippling ecosystem effects wolves have had on Yellowstone's wild and rare landscape. Perhaps most importantly of all, the book also offers solutions to ongoing controversies and debates. Featuring a foreword by Jane Goodall, beautiful images, a companion online documentary by celebrated filmmaker Bob Landis, and contributions from more than seventy wolf and wildlife conservation luminaries from Yellowstone and around the world, Yellowstone Wolves is a gripping, accessible celebration of the extraordinary Yellowstone Wolf Project—and of the park through which these majestic and important creatures once again roam.

Rare Diseases and Orphan Products

Accelerating Research and Development

National Academies Press Rare diseases collectively affect millions of Americans of all ages, but developing drugs and medical devices to prevent, diagnose, and treat these conditions is challenging. The Institute of Medicine (IOM) recommends implementing an integrated national strategy to promote rare diseases research and product development.

A Review of UK Health Research Funding

The Stationery Office This Review sets out to propose a structure for the funding arrangements for the whole spectrum of health research, with the objective of obtaining the maximum benefit from research success and, where possible, eliminating duplication of effort. The Review found, however, that the UK is at risk of failing to reap the full economic, health and social benefits that the UK's public investment in health research should generate. There is no overarching UK health research strategy to ensure UK health priorities are considered through all types of research and there are two key gaps in the translation of health research: (i) translating ideas from basic and clinical research into the development of new products and approaches to treatment of disease and illness; (ii) implementing those new products and approaches into clinical practice. The Review also found that the wider funding arrangements for supporting translation of ideas from conception to practice could be more coherent or comprehensive and, where arrangements exist, they do not function well. The Review identified cultural, institutional and financial barriers to translating research into practice in the publicly funded research arena. But it also found that, in the private sector, the pharmaceuticals industry is facing increasing challenges in translating research into health and economic benefit. The Review has sought to make recommendations that will increase the translation of R&D into health and economic benefit for the UK, both in the public and private sectors. The Review recommends that the Government should seek to achieve better coordination of health research and more coherent funding arrangements to support translation by establishing an Office for Strategic Coordination of Health Research (OSCHR).

The Travels and Adventures of Serendipity

A Study in Sociological Semantics and the Sociology of Science

Princeton University Press From the names of cruise lines and bookstores to an Australian ranch and a nudist camp outside of Atlanta, the word serendipity--that happy blend of wisdom and luck by which something is discovered not quite by accident--is today ubiquitous. This book traces the word's eventful history from its 1754 coinage into the twentieth century--chronicling along the way much of what we now call the natural and social sciences. The book charts where the term went, with whom it resided, and how it fared. We cross oceans and academic specialties and meet those people, both famous and now obscure, who have used and abused serendipity. We encounter a linguistic sage, walk down the illustrious halls of the Harvard Medical School, attend the (serendipitous) birth of penicillin, and meet someone who "manages serendipity" for the U.S. Navy. The story of serendipity is fascinating; that of The Travels and Adventures of Serendipity, equally so. Written in the 1950s by already-eminent sociologist Robert Merton and Elinor Barber, the book--though occasionally and most tantalizingly cited--was intentionally never published. This is all the more curious because it so remarkably anticipated subsequent battles over research and funding--many of which centered on the role of serendipity in science. Finally, shortly after his ninety-first birthday, following Barber's death and preceding his own by but a little, Merton agreed to expand and publish this major work. Beautifully written, the book is permeated by the prodigious intellectual curiosity and generosity that characterized Merton's influential On the Shoulders of Giants. Absolutely entertaining as the history of a word, the book is also tremendously important to all who value the miracle of intellectual discovery. It represents Merton's lifelong protest against that rhetoric of science that defines discovery as anything other than a messy blend of inspiration, perspiration, error, and happy chance--anything other than serendipity.