

# René Dubos



Friend of the Good Earth

*Microbiologist, Medical Scientist, Environmentalist*

Carol L. Moberg

# Rene Dubos Friend Of The Good Earth

**Frank Fenner**



## **Rene Dubos Friend Of The Good Earth:**

**The Republic of Nature** Mark Fiege, 2012-03-20 In the dramatic narratives that comprise *The Republic of Nature* Mark Fiege reframes the canonical account of American history based on the simple but radical premise that nothing in the nation's past can be considered apart from the natural circumstances in which it occurred. Revisiting historical icons so familiar that schoolchildren learn to take them for granted, he makes surprising connections that enable readers to see old stories in a new light. Among the historical moments revisited here, a revolutionary nation arises from its environment and struggles to reconcile the diversity of its people with the claim that nature is the source of liberty. Abraham Lincoln, an unlettered citizen from the countryside, steers the Union through a moment of extreme peril guided by his clear-eyed vision of nature's capacity for improvement. In Topeka, Kansas, transformations of land and life prompt a lawsuit that culminates in the momentous civil rights case of *Brown v. Board of Education*. By focusing on materials and processes intrinsic to all things and by highlighting the nature of the United States, Fiege recovers the forgotten and overlooked ground on which so much history has unfolded. In these pages, the nation's birth and development, pain and sorrow, ideals and enduring promise come to life as never before, making a once familiar past seem new. *The Republic of Nature* points to a startlingly different version of history that calls on readers to reconnect with fundamental forces that shaped the American experience. For more information, visit the author's website: <http://republicofnature.com> [Communicating Environmental Patriotism](#) Anne Marie Todd, 2013-06-07

Environmental patriotism, the belief that the national environment defines a country's greatness, is a significant strand in twentieth-century American environmentalism. This book is the first to explore the history of environmental patriotism in America through the intriguing stories of environmental patriots and the rhetoric of their speeches and propaganda. The See America First movement began in 1906 with the aim of protecting and promoting the landscapes of the American West. In 1908, Gifford Pinchot and President Theodore Roosevelt hosted the White House Conservation Conference to promote the wise use of natural resources for generations of Americans. In 1912, Pittsburgh's smoke investigation condemned the effects of coal smoke on the city's environment. In World War II, a massive propaganda effort mobilized millions of Americans to plant victory gardens to save resources for the war abroad. While these may not seem like crucial moments for the American environmental movement, this new history of American environmentalism shows that they are linked by patriotism. The book offers a provoking critique of environmentalists' communication strategies and suggests patriotism as a persuasive hook for new ways to make environmental issues a national priority. This original research should be of interest to scholars of environmental communication, environmental history, American history, and environmental philosophy. [What's Wrong with the Poor?](#) Mical Raz, 2013-11-11 In her insightful interdisciplinary history, physician and historian Mical Raz examines the interplay between psychiatric theory and social policy throughout the 1960s, ending with President Richard Nixon's 1971 veto of a bill that would have provided universal day care. She shows that this cooperation between mental health professionals

and policymakers was based on an understanding of what poor men women and children lacked This perception was rooted in psychiatric theories of deprivation focused on two overlapping sections of American society the poor had less and African Americans disproportionately represented among America s poor were seen as having practically nothing

**Rethinking the American Environmental Movement post-1945** Ellen Spears, 2019-06-28 Rethinking the American Environmental Movement post 1945 turns a fresh interpretive lens on the past drawing on a wide range of new histories of environmental activism to analyze the actions of those who created the movement and those who tried to thwart them Concentrating on the decades since World War II environmental historian Ellen Griffith Spears explores environmentalism as a field of movements rooted in broader social justice activism Noting major legislative accomplishments strengths and contributions as well as the divisions within the ranks the book reveals how new scientific developments the nuclear threat and pollution as well as changes in urban living spurred activism among diverse populations The book outlines the key precursors events participants and strategies of the environmental movement and contextualizes the story in the dramatic trajectory of U S history after World War II The result is a synthesis of American environmental politics that one reader called both ambitious in its scope and concise in its presentation This book provides a succinct overview of the American environmental movement and is the perfect introduction for students or scholars seeking to understand one of the largest social movements of the twentieth century up through the robust climate movement of today

**Life Out of Balance** Joel B. Hagen, 2021-04-13 Traces historical developments in scientific conceptions of physiology ecology behavior and evolutionary biology during the mid twentieth century Life Out of Balance focuses on a period in history when new ideas of self regulation adaptation and fitness became central to a variety of biological disciplines During the decades surrounding World War II these ideas developed in several quite different contexts and led to greater debates about the merits of such models as applied to larger systems including society at large Particularly in its later cybernetic form homeostasis seemed to provide new ways of discussing balance and regulation that avoided discredited approaches of earlier champions of vitalism and mechanism It provided a common perspective and terminology for discussing self regulating systems whether biological mechanical or social Although enormously fruitful and influential homeostatic perspectives also generated numerous controversies when critics questioned the degree to which biological systems are characterized by balance and self regulation Resolving these controversies continues to be a challenge in modern biology If natural selection constitutes the first law of biology scientists who champion homeostasis as a theoretical model claim that it is a second law equally important and closely related to the first Such claims notwithstanding homeostasis has generated a series of controversies since it was formalized by Walter Cannon in the late 1920s Critics contended that Cannon took a too optimistic view of life not only ignoring pathological deviations from normality but also failing to adequately explain the ability of living things to respond adaptively to environmental challenges Underlying these controversies was the unresolved problem of integrating physiology and other areas of functional biology

with the emerging evolutionary synthesis of Mendelian genetics and Darwinian natural selection The physiological idea of homeostasis as the adaptive fit between the organism and its environment and the Darwinian idea of adaptation and fitness in terms of reproductive success might seem to be complementary in an unproblematic way but historically they have had an uneasy relationship

**Understanding the Gut Microbiota** Gerald W. Tannock, 2017-03-06 This book discusses the community of microbial species the microbiota microbiome which inhabits the large bowel of humans Written from the perspective of an academic who has been familiar with the topic for 40 years it provides a long term perspective of knowledge about this high profile and fast moving topic Building on general ecological principles the book aims to help the reader to understand how the microbiota is formed how it works and what the consequences are to humans Understanding the Gut Microbiota focuses on conceptual progress made from studies of the human bowel microbiota Where appropriate it draws on knowledge obtained from other animal species to provide conceptual enlightenment but this is essentially a book about humans and their bowel microbes Particular research approaches are recommended to fill knowledge gaps so that fundamental ecological theory and information about the microbiota can be translated into benefits for human health The relationship between food for humans and resulting food for bowel bacteria emerges as an important topic for consideration This concise scholarly treatise of the microbiota of the human bowel will be of great interest and use as a text and reference work for professionals teachers and students across a wide range of disciplines including the health sciences general biology and food science and technology The provision of handy explanation of terms means that those with a general interest in science can also read the book with enjoyment

*Emerging Infectious Diseases*, 2006

**Nature at War** Thomas Robertson, Richard P. Tucker, Nicholas B. Breyfogle, Peter Mansoor, 2020-04-02 World War II was the largest and most destructive conflict in human history It was an existential struggle that pitted irreconcilable political systems and ideologies against one another across the globe in a decade of violence unlike any other There is little doubt today that the United States had to engage in the fighting especially after the Japanese attack on Pearl Harbor on December 7 1941 The conflict was in the words of historians Allan Millett and Williamson Murray a war to be won As the world's largest industrial power the United States put forth a supreme effort to produce the weapons munitions and military formations essential to achieving victory When the war finally ended the finale signaled by atomic mushroom clouds over Hiroshima and Nagasaki upwards of 60 million people had perished in the inferno Of course the human toll represented only part of the devastation global environments also suffered greatly The growth and devastation of the Second World War significantly changed American landscapes as well The war created or significantly expanded a number of industries put land to new uses spurred urbanization and left a legacy of pollution that would in time create a new term Superfund site

**The End of a Global Pox** Bob H. Reinhardt, 2015-06-24 By the mid twentieth century smallpox had vanished from North America and Europe but continued to persist throughout Africa Asia and South America In 1965 the United States joined an international effort to

eradicate the disease and after fifteen years of steady progress the effort succeeded Bob H Reinhardt demonstrates that the fight against smallpox drew American liberals into new and complex relationships in the global Cold War as he narrates the history of the only cooperative international effort to successfully eliminate a human disease Unlike other works that have chronicled the fight against smallpox by offering a biography of the disease or employing a triumphalist narrative of a public health victory *The End of a Global Pox* examines the eradication program as a complex exercise of American power Reinhardt draws on methods from environmental medical and political history to interpret the global eradication effort as an extension of U S technological medical and political power This book demonstrates the far reaching manifestations of American liberalism and Cold War ideology and sheds new light on the history of global public health and development

**Antimicrobial Drugs** David Greenwood, 2008-02-21 Between 1935 and 1944 the field of microbiology and by implication medicine as a whole underwent dramatic advancement The discovery of the extraordinary antibacterial properties of sulphonamides penicillin and streptomycin triggered a frantic hunt for more antimicrobial drugs that was to yield an abundant harvest in a very short space of time By the early 1960s more than 50 antibacterial agents were available to the prescribing physician and largely by a process of chemical modification of existing compounds that number has more than tripled today We have become so used to the ready availability of these relatively safe and highly effective miracle drugs that it is now hard to grasp how they transformed the treatment of infection This book documents the progress made from the first tentative search for an elusive chemotherapy of infection in the early days of the twentieth century to the development of effective antiviral agents for the management of HIV as the millennium drew to a close It also offers a celebration of the individuals and groups that made this miracle happen as well as examining the inexorable rise of the global pharmaceutical industry and most intriguingly the essential input of luck Infection still maintains a high profile in both medicine and the media with the current threats of superbugs such as MRSA acquired in hospital and a potential resistance to antibiotics This book tracks the history of antimicrobial drugs a remarkable medical triumph that has provided doctors with an amazing armoury of safe and effective drugs that ensure that reversion to the helpless state of the fight against infection witnessed in the early 1900s is extremely unlikely This timely compendium acknowledges the agents that have surely led to the relief of more human and animal suffering than any other class of drugs in the history of medical endeavour *The Sounds of Furious Living* Matthew Kelly, 2023-10-13 Four decades have passed since reports of a mysterious gay cancer first appeared in US newspapers In the ensuing years the pandemic that would come to be called AIDS changed the world in innumerable ways It also gave rise to one of the late twentieth century's largest health based empowerment movements Scholars across diverse traditions have documented the rise of the AIDS activist movement chronicling the impassioned echoes of protestors who took to the streets to demand drugs into bodies And yet not all activism creates echoes Included among the ranks of 1980s and 1990s era AIDS activists were individuals whose expressions of empowerment differed markedly from those

demanding open access to mainstream pharmaceutical agents Largely forgotten today this activist tradition was comprised of individuals who embraced unorthodox approaches for conceptualizing and treating their condition Rejecting biomedical expertise they shared alternative clinical paradigms created underground networks for distributing unorthodox nostrums and endorsed etiological models that challenged the association between HIV and AIDS The theatre of their protests was not the streets of New York City s Greenwich Village but rather their bodies And their language was not the riotous chants of public demonstration but the often invisible embrace of contrarian systems for defining and treating their disease The Sounds of Furious Living seeks to understand the AIDS activist tradition identifying the historical currents out of which it arose Embracing a patient centered social historical lens it traces historic shifts in popular understanding of health and perceptions of biomedicine through the nineteenth and twentieth centuries to explain the lasting appeal of unorthodox health activism into the modern era In asking how unorthodox health activism flourished during the twentieth century s last major pandemic Kelly also seeks to inform our understanding of resistance to biomedical authority in the setting of the twenty first century s first major pandemic COVID 19 As a deeply researched portrait of distrust and disenchantment The Sounds of Furious Living helps explain the persistence of movements that challenge biomedicine s authority well into a century marked by biomedical innovation while simultaneously posing important questions regarding the meaning and metrics of patient empowerment in clinical practice

**Soil Science Americana** Alfred E. Hartemink, 2021-09-14 This book narrates how the study of the soil became a science and institutionalized in the USA between 1860 and 1960 The story meanders through the activities ideas publications and correspondence of people who influenced the progressions that led to the budding and early blossoming of American and international soil science Interwoven is a tale of two farm boys who grew up 900 km apart in the Midwest USA in the late 1800s and early 1900s Emil Truog and Charles Kellogg met in the late 1920s and shared a natural connection to the soil Both were practical pioneers and believed that understanding soils was crucial to helping people on the land make a better living The USA is a big country its soil science is geographically intertwined and the cradle of its history primes back to a few people Soil Science Americana is an intellectual biography not of one individual but of a new scientific field from its emergence to its complete coming of age Louise O Fresco President Wageningen University and Research In a lively personal voice Hartemink traces the roots of modern soil science in the United States creating a book that will engage both the expert and non expert in the underappreciated field of soil science Jo Handelsman Director Wisconsin Institute for Discovery The intellectual master piece is of interest to soil scientists general public and the policy makers and will remain pertinent for generations to come Rattan Lal World Food Prize Laureate 2020 The Ohio State University [Making 20th Century Science](#) Stephen G. Brush, Ariel Segal, 2015 Historically the scientific method has been said to require proposing a theory making a prediction of something not already known testing the prediction and giving up the theory or substantially changing it if it fails the test A theory that leads to several successful predictions is more likely to be accepted than one that

only explains what is already known but not understood This process is widely treated as the conventional method of achieving scientific progress and was used throughout the twentieth century as the standard route to discovery and experimentation But does science really work this way In Making 20th Century Science Stephen G Brush discusses this question as it relates to the development of science throughout the last century Answering this question requires both a philosophically and historically scientific approach and Brush blends the two in order to take a close look at how scientific methodology has developed Several cases from the history of modern physical and biological science are examined including Mendeleev s Periodic Law Kekule s structure for benzene the light quantum hypothesis quantum mechanics chromosome theory and natural selection In general it is found that theories are accepted for a combination of successful predictions and better explanations of old facts Making 20th Century Science is a large scale historical look at the implementation of the scientific method and how scientific theories come to be accepted

Biomedicine in the Twentieth Century: Practices, Policies, and Politics C. Hannaway, 2008-02-11 Biomedicine in the Twentieth Century Practices Policies and Politics is a testimony to the growing interest of scholars in the development of the biomedical sciences in the twentieth century and to the number of historians social scientists and health policy analysts now working on the subject The book is comprised of essays by noted historians and social scientists that offer insights on a range of subjects that should be a significant stimulus for further historical investigation It details the NIH s practices policies and politics on a variety of fronts including the development of the intramural program the National Institute of Mental Health and mental health policy the politics and funding of heart transplantation and the initial focus of the National Cancer Institute Comparisons can be made with the development of other American and British institutions involved in medical research such as the Rockefeller Institute and the Medical Research Council Discussions of the larger scientific and social context of United States federal support for research the role of lay institutions in federal funding of virus research the consequences of technology transfer and patenting the effects of vaccine and drug development and the environment of research discoveries all offer new insights and suggest questions for further exploration

Streptomyces in Nature and Medicine D. 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 streptomycetes is being applied to understand and control these still deadly pathogens

*Nature, Nurture and Chance* Frank Fenner, 2006-07-01 Microbiologists Virologists Educators Geographers Biography Australia

**Molecules of Nature** Paul F. Torrence, 2017-12-13 Molecules of nature are created by living organisms in their quest to survive and thrive in Earth s challenging environments This ages old evolutionary struggle has produced an immense library of chemicals from which humans have selected invaluable therapeutics critical to modern medicine Natural products presently provide half of all prescription medications and 70% of all cancer drugs The success of continued drug development from natural products depends upon the diversity of molecules of nature which in turn depends upon biodiversity Unfortunately human caused damage to the environment from pollution to habitat loss to overexploitation of resources is causing unprecedented ecological damage and death of species a mass extinction event Unless this biotic crisis is obviated humanity will lose a primary source of future novel medicines This book assembles a powerful argument for nature s critical role in providing medicines for humanity and how that irreplaceable service is threatened by the extinction crisis A sampling of the molecules of nature employed in modern medicine reads like a catalog of biodiversity For example one of the most prescribed drugs in the United States is lisinopril which controls high blood pressure Lisinopril originated from the venom of a deadly viper from the Amazonian forests A denizen of US southwestern deserts provided a therapeutic for type II diabetes The ancient horseshoe crab of the US Atlantic coast enables a critical test for deadly endotoxins in medical products of all kinds Once a diagnosis of acute lymphocytic leukemia in children was a death sentence A tropical flower from Madagascar provided two natural products that changed a 90% fatality rate to a 90% cure rate The Pacific Yew tree from the US northwest was discovered to contain the potent anticancer agent Taxol now vital in the treatment of breast and ovarian cancers and Kaposi s sarcoma This book tells the fascinating story of these and other medicines It also summarizes some of the driving forces of the Sixth Mass Extinction and shows how it threatens at least half of the planet s species with extinction We rightly ask What will be the future of medicine without the contribution of millions of species How many treatments for disease will be forever lost What cures are we asking future generations to forgo As we willy nilly extinguish the future of one organism after another together with all the knowledge they hold we are like the looters of the Great Library of Alexandria The final chapter challenges readers to pursue a different outcome By uniting our efforts we can

still preserve many of the remaining species on our blue green planet and the invaluable gifts they offer The Journal of Cell Biology ,1994 No 2 pt 2 of November issue each year from v 19 47 1963 70 and v 55 1972 contain the Abstracts of papers presented at the annual meeting of the American Society for Cell Biology 3d 10th 1963 70 and 12th 1972 *Steering Against Superbugs* Olivier Rubin,Erik Baekkeskov,Louise Munkholm,2023 Many people correctly understand that superbugs can threaten health Superbugs are microbial organisms including bacteria viruses parasites or fungi that resist one or more antibiotic or other antimicrobial treatments What may be less widely understood is that the threat is global growing and encompasses human systems surrounding healthcare agriculture and the environment In 2019 1 3 million people around the world are estimated to have died from resistant microbes Murray et al 2022 This is similar to how many succumb annually to HIV AIDS and Malaria combined Laxminarayan 2022 The recent coronavirus pandemic may have further exacerbated the global health challenge posed by superbugs Rizvi Adebisi et al 2021 Rodr guez Ba o et al 2021 By 2050 worst case projections include annual superbug fatalities of ten million people O Neil 2016 Some experts have started to refer to the increase and spread of superbugs as the overlooked or silent pandemic Laxminarayan 2022 UN 2020 Mahoney et al 2021 Other experts warn that we might be heading towards a post antibiotic era where minor infections become increasingly severe or even impossible to treat Reardon 2014 Kwon Powderly 2021 Annual economic losses related to superbugs are already estimated in the tens of billion U S dollars Hall McDonell O Neil 2018 As a response to these global challenges this book analyses and discusses ways to reduce barriers to and create opportunities for global governance of antimicrobial resistance Or more briefly steering against superbugs Pensar globalmente, actuar localmente René Dubos,2023-09-28 La crisis socioecol gica no es un asunto nuevo que de repente muestre su faz amenazadora en sus rasgos esenciales era perfectamente reconocible hace medio siglo De hecho la mayor a de los debates de los a os sesenta y setenta sobre esta cuesti n eran m s abiertos y menos negadores de la realidad que buena parte de lo que ha venido despu s As todav a hoy las posibles soluciones para algunos de los problemas socioecol gicos m s preocupantes pasan en buena medida por seguir las propuestas hechas por Ren Dubos y otros pioneros del ecologismo La organizaci n de la vida en nuestras sociedades y ciudades la capacidad de adaptaci n a formas diferentes de producci n y consumo la cuesti n del bienestar humano y de los requisitos para una vida buena la transformaci n de las relaciones con el resto de los seres vivos o entre la poblaci n de los pa ses ricos y pobres son algunos de los asuntos fundamentales que aborda en estos textos La originalidad de su planteamiento radica en gran parte frente a visiones catastrofistas en una concepci n del ser humano como un ser creativo que es capaz de integrar el pesimismo de la raz n con el optimismo de la voluntad

## **Rene Dubos Friend Of The Good Earth** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Rene Dubos Friend Of The Good Earth**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Rene Dubos Friend Of The Good Earth Introduction**

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