



PIONEERS *of*



MICROBIOLOGY



and the NOBEL PRIZE



Ulf Lagerkvist

Pioneers Of Microbiology And The Nobel Prize

William Shurtleff; Akiko Aoyagi



Pioneers Of Microbiology And The Nobel Prize:

Pioneers of Microbiology and the Nobel Prize Ulf Lagerkvist, 2003-01-01 The latter half of the 19th century witnessed a revolution in medicine with the breakthrough of microbiology Four of its pioneers who were also colourful personalities Emil von Behring Robert Koch Paul Ehrlich and Elie Metchnikoff were awarded the Nobel Prize This volume tells the story of their contributions to science and how they were judged by their colleagues at the Karolinska Institutet who had been charged with the responsibility of evaluating the candidates for the early medical Nobel Prizes *Pioneers In Microbiology: The Human Side Of Science* King-thom Chung, Jong-kang Liu, 2017-08-23 Pasteurization penicillin Koch's postulates and gene coding These discoveries and inventions are vital yet commonplace in modern life but were radical when first introduced to the public and academia In this book the life and times of leading pioneers in microbiology are discussed in vivid detail focusing on the background of each discovery and the process in which they were developed sometimes by accident or sheer providence *Nobel Prizes and Life Sciences* Erling Norrby, 2010 The Nobel Prizes in natural sciences have achieved the reputation of being the ultimate accolade for scientific achievements This book gives a unique insight into the selection of Nobel Prize recipients in particular the life sciences The evolving mechanisms of selection of prize recipients are illustrated by reference to archives which have remained secret for 1 year Many of the prizes subjected to particular evaluation concern awards given for discoveries in the field of infectious diseases and the interconnected field of genetics The book illustrates the individuals and environments that are conducive to scientific creativity Nowhere is this enigmatic activity the mime mover in advancing the human condition highlighted as lucidly as by identification individuals worthy of Nobel Prizes Book Jacket [The Periodic Table and a Missed Nobel Prize](#) Ulf Lagerkvist, 2012 In a relatively brief but masterful recounting Professor Ulf Lagerkvist traces the origins and seminal developments in the field of chemistry highlighting the discoveries and personalities of the individuals who transformed the ancient myths of the Greeks the musings of the alchemists the mystique of phlogiston into the realities and the laws governing the properties and behavior of the elements in short how chemistry became a true science A centerpiece of this historical journey was the triumph by Dmitri Mendeleev who conceived the Periodic Law of the Elements the relation between the properties of the elements and their atomic weights but more precisely their atomic number Aside from providing order to the elements known at the time the law predicted the existence and atomic order of elements not then known but were discovered soon after An underlying but explicit intent of Lagerkvist's survey is to address what he believes was a gross injustice in denying Mendeleev the Nobel Prize in Chemistry in 1905 and again in 1906 Delving into the Royal Swedish Academy of Sciences detailed records concerning the nominations Lagerkvist reveals the judging criteria and the often heated and prejudicial arguments favoring and demeaning the contributions of the competing contenders of those years Lagerkvist who was a member of the Swedish Academy of Sciences and has participated in judging nominations for the chemistry prize concludes It is in the nature of the

Nobel Prize that there will always be a number candidates who obviously deserve to be rewarded but never get the accolade Mendeleev was one of those

The Lock and Key of Medicine Lara V. Marks, 2015-06-28 This book is the first to tell the extraordinary yet unheralded history of monoclonal antibodies Often referred to as Mabs they are unfamiliar to most nonscientists yet these microscopic protein molecules are everywhere quietly shaping our lives and healthcare Discovered in the mid 1970s in the laboratory where Watson and Crick had earlier unveiled the structure of DNA Mabs have radically changed understandings of the pathways of disease They have enabled faster cheaper and more accurate clinical diagnostic testing on a vast scale And they have played a fundamental role in pharmaceutical innovation leading to such developments as recombinant interferon and insulin and personalized drug therapies such as Herceptin Today Mabs constitute six of the world's top ten blockbuster drugs and make up a third of new introduced treatments Lara V Marks recounts the risks and opposition that a daring handful of individuals faced while discovering and developing Mabs and she addresses the related scientific medical technological business and social challenges that arose She offers a saga of entrepreneurs whose persistence and creativity ultimately changed the healthcare landscape and brought untold relief to millions of patients Even so as Marks shows controversies over Mabs remain and she examines current debates over the costs and effectiveness of these innovative drugs

Explorations in Baltic Medical History, 1850-2015 Nils Hansson, Jonatan Wistrand, 2019 This book explores the history of medicine in the Baltic Sea region and provides different answers to one central question How has the circulation of knowledge in the Baltic Sea region influenced medicine as a discipline and illness as an experience during the nineteenth and twentieth centuries From synopsis

Understanding Microbes Donna M. Bozzone, Ph.D., 2018-07-15 A great deal of what is known about genetics and inheritance is thanks to what has been learned by studying microbes Supporting the Next Generation Science Standards on heredity and inheritance of traits as well as the structures and processes of simple and complex organisms this book introduces all of the various types of microbes found on Earth and in and on human bodies bacteria archaea and protists Through engaging language that simplifies complicated science concepts into easily digestible pieces of information and detailed images and diagrams students will learn about the discovery evolutionary history and roles of microbes in health disease and the functioning of our planet Sidebars provide students with additional information to help them gain a deeper understanding of the diversity of life

The Song of the Cell Siddhartha Mukherjee, 2022-10-25 Winner of the 2023 PROSE Award for Excellence in Biological and Life Sciences and the 2023 Chautauqua Prize Named a New York Times Notable Book and a Best Book of the Year by The Economist Oprah Daily BookPage Book Riot the New York Public Library and more In *The Song of the Cell* the extraordinary author of the Pulitzer Prize winning *The Emperor of All Maladies* and the 1 New York Times bestseller *The Gene* blends cutting edge research impeccable scholarship intrepid reporting and gorgeous prose into an encyclopedic study that reads like a literary page turner Oprah Daily Mukherjee begins this magnificent story in the late 1600s when a distinguished English polymath Robert

Hooke and an eccentric Dutch cloth merchant Antonie van Leeuwenhoek looked down their handmade microscopes. What they saw introduced a radical concept that swept through biology and medicine, touching virtually every aspect of the two sciences and altering both forever. It was the fact that complex living organisms are assemblages of tiny self-contained self-regulating units. Our organs, our physiology, our selves, hearts, blood, brains are built from these compartments. Hooke christened them cells. The discovery of cells and the reframing of the human body as a cellular ecosystem announced the birth of a new kind of medicine based on the therapeutic manipulations of cells. A hip fracture, a cardiac arrest, Alzheimer's dementia, AIDS, pneumonia, lung cancer, kidney failure, arthritis, COVID pneumonia, all could be reconceived as the results of cells or systems of cells functioning abnormally. And all could be perceived as loci of cellular therapies. Filled with writing so vivid, lucid, and suspenseful that complex science becomes thrilling, *The Song of the Cell* tells the story of how scientists discovered cells, began to understand them, and are now using that knowledge to create new humans. Told in six parts and laced with Mukherjee's own experience as a researcher, a doctor, and a prolific reader, *The Song of the Cell* is both panoramic and intimate, a masterpiece on what it means to be human. In an account both lyrical and capacious, Mukherjee takes us through an evolution of human understanding from the seventeenth-century discovery that humans are made up of cells to our cutting-edge technologies for manipulating and deploying cells for therapeutic purposes. *The New Yorker* [Roots of Ecology](#) Frank N. Egerton, 2012-07-17 Ecology is the centerpiece of many of the most important decisions that face humanity. *Roots of Ecology* documents the deep ancestry of this now enormously important science from the early ideas of Herodotus, Plato, and Pliny up through those of Linnaeus and Darwin to those that inspired Ernst Haeckel's mid-nineteenth-century neologism, ecology. Based on a long-running series of regularly published columns, this important work gathers a vast literature illustrating the development of ecological and environmental concepts, ideas, and creative thought that has led to our modern view of ecology. *Roots of Ecology* should be on every ecologist's shelf. **Science Year by Year** DK, 2017-03-07 This epic journey of scientific discovery starts in ancient times and travels through centuries of invention, before fast-forwarding into the future. In this ultimate home reference, you'll see simple machines and modern-day marvels following incredible illustrated timelines that plot the entire history of science and highlight the most momentous discoveries. A jaw-dropping collection of more than 1,500 photographs, illustrations, maps, and graphics charts the evolution of science year by year, century by century. You'll meet influential inventors and famous faces from the past, including Aristotle, Leonardo da Vinci, Isaac Newton, Charles Darwin, Marie Curie, and Stephen Hawking. You'll visit places of scientific importance such as prehistoric cave art, Stonehenge, Hiroshima, and the first atomic bomb, the Moon landings, and the Higgs boson particle. These huge events are made simple thanks to eye-catching images, helpful timelines, and accessible, informative text. Landmark people and periods are combined in this one stunning family reference, showcasing the ideas, experiments, and technologies that have shaped our daily lives and transformed the world we live in today. Budding scientists get ready for a time-travelling

trip like no other *Victorian Cultures of Liminality* Amina Alyal, Susan Anderson, 2018-07-27 This volume is unique in its focus on cross fertilisation in the arts on very specific exploration of liminal spaces and on the representation of marginal figures in writing The essays here grew out of the Borders and Margins colloquium held at Leeds Trinity University UK in April 2010 which was the fourth in a series of colloquia This collection moreover contributes to a growing area of scholarship which explores Anglo French interactions and exchanges In choosing the term liminality the editors are aware of its nuanced implications allowing suggestions both of the initial and the transitional The contributors here are academics from the fields of literature history and art history and their essays cover art history literature cultural history the arts and faith Altogether this collection evokes a sense of temporal shift in that changes in values and focus are uncovered as the nineteenth century progresses Some have an ekphrastic quality showing how pictures can have a narrative and how pictures as well as texts can be encoded with moral and social interpretations Close scrutiny is applied to different kinds of texts fiction and non fiction and the purposes for which they were produced This book will appeal to scholars and academics interested in a wide range of cross categorisational transactions in nineteenth century Britain It will be of interest to scholars of Victorian culture and English nineteenth century literature and art particularly in terms of genre as well as to academics interested in the development of social personal and national identities

The Asia-Pacific Biotech Directory, 2003 **A Hidden Legacy** Thomas E. Schindler, 2021-08-17 It s time to honor the significant scientific contributions of Esther Zimmer Lederberg In A Hidden Legacy Thomas E Schindler shares the story of this remarkable microbiologist and offers insight into why her legacy has been obscured for so long In the mid 20th century microbiologist Esther Zimmer Lederberg and her then husband Joshua Lederberg made a series of remarkable discoveries that contributed to the biochemical understanding of the gene Together they laid the foundation for molecular biology and the field of bacterial genetics In 1958 he alone was awarded the Nobel Prize for their work Esther s ingenuity was largely ignored and undervalued by the Nobel committee and has continued to be obscured by historians of science In this book Thomas E Schindler shares many of Esther s hidden scientific contributions and her role in the discoveries that launched her then husband s celebrated career A Hidden Legacy delves into how as a couple the Lederbergs established a new field of bacterial genetics in the decade leading up to the discovery of the DNA double helix Their impressive series of achievements includes the discovery of bacteriophage and the first plasmid known as the F factor how viruses carry bacterial genes between bacteria and fundamental properties of bacterial sex Schindler explains how Esther s research revealed unique features of bacterial sex that are now essential to our understanding of molecular biology and evolution A magnificent story of a remarkable scientist A Hidden Legacy takes readers through the process that scrambled the tree of life and offers insight into the role Esther played in uncovering these secretes of bacterial and viral genes Pioneers of Progress: Innovators and Inventors Who Shaped History George Wilton , 2024-04-11

Discovery The Pioneers of Progress Innovators and Inventors Who Shaped History **Syphilis** Andrew P. Zbar, 2022-10-12

Syphilis is an illness with mythology The story of its origin dissemination and treatment have all been mired in confusion a mix of reality and quackery I have tried to put the organism as the principal protagonist of the story firmly in an historical focus which centres more on its social impact than on its particular medical management A diagnosis of Syphilis had personal and community consequence and its impact transcended into the arts Despite the discovery of an effective treatment to which the organism has fortunately failed to mutate the restrictions in available management have been social and a result of prejudice towards its victims This may explain why it is once again on the global rise in places where access to the most basic antibiotics remains limited This book uniquely considers the sociological sequel of infection the wider influence extending beyond the physical that has become its legacy [History of Soybeans and Soyfoods in France \(1665-2015\)](#) William Shurtleff; Akiko Aoyagi,2015-04-21 The world s most comprehensive well documented and well illustrated book on this subject With extensive index 145 photographs and illustrations Free of charge in digital format on Google Books

Pioneers in Cell Biology Elizabeth R. Cregan,2010 Introduces some of the most influential scientists in the history of cell biology **Bulletin [of The] City of Chicago Municipal Tuberculosis Sanitorium ...** Chicago (Ill.). Municipal Tuberculosis Sanitorium,1927 **History of Soybeans and Soyfoods in the Netherlands, Belgium and Luxembourg (1647-2015)** William Shurtleff; Akiko Aoyagi,2015-08-17 The world s most comprehensive well documented and well illustrated book on this subject With extensive index 168 photographs and illustrations mostly color Free of charge in digital PDF format on Google Books *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

Enjoying the Melody of Appearance: An Mental Symphony within **Pioneers Of Microbiology And The Nobel Prize**

In a world consumed by displays and the ceaseless chatter of instant connection, the melodic splendor and psychological symphony developed by the written term frequently fade into the backdrop, eclipsed by the constant sound and interruptions that permeate our lives. Nevertheless, nestled within the pages of **Pioneers Of Microbiology And The Nobel Prize** an enchanting fictional prize brimming with fresh feelings, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, that captivating masterpiece conducts viewers on a mental journey, well unraveling the hidden melodies and profound influence resonating within each cautiously crafted phrase. Within the depths of this poignant analysis, we shall examine the book is key harmonies, analyze their enthralling publishing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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