



# LINUS PAULING

A MAN AND  
HIS SCIENCE

ANTHONY SERAFINI

FOREWORD BY ISAAC ASIMOV

# Linus Pauling A Man And His Science By Anthony Serafini

**Michel Morange**



## **Linus Pauling A Man And His Science By Anthony Serafini:**

**The Black Box of Biology** Michel Morange, 2020-06-09 In this masterful account a historian of science surveys the molecular biology revolution its origin and continuing impact Since the 1930s a molecular vision has been transforming biology Michel Morange provides an incisive and overarching history of this transformation from the early attempts to explain organisms by the structure of their chemical components to the birth and consolidation of genetics to the latest technologies and discoveries enabled by the new science of life Morange revisits *A History of Molecular Biology* and offers new insights from the past twenty years into his analysis *The Black Box of Biology* shows that what led to the incredible transformation of biology was not a simple accumulation of new results but the molecularization of a large part of biology In fact Morange argues the greatest biological achievements of the past few decades should still be understood within the molecular paradigm What has happened is not the displacement of molecular biology by other techniques and avenues of research but rather the fusion of molecular principles and concepts with those of other disciplines including genetics physics structural chemistry and computational biology This has produced decisive changes including the discoveries of regulatory RNAs the development of massive scientific programs such as human genome sequencing and the emergence of synthetic biology systems biology and epigenetics Original persuasive and breathtaking in its scope *The Black Box of Biology* sets a new standard for the history of the ongoing molecular revolution

## **Biographies of Scientists for Sci-Tech Libraries**

Tony Stankus, 2019-12-05 This book first published in 1991 is an invaluable guide to biographies of scientists from a wide variety of scientific fields The books selected for this highly descriptive bibliography help librarians shatter readers stereotypes of scientists as monomaniacal and uninteresting people by providing interesting and provocative titles to capture the interest of students and other readers The biographies included in this very special bibliography were carefully selected for their humour and human insights to give future scientists encouragement inspiration and an understanding of the origins of particular scientific fields These biographies are unique in that they explore the whole personality of the scientist giving students a glimpse at the variety and drama of the lives beyond well known contributions or Nobel prize accomplishments

**The Best of Health** Sheldon Zerden, 2004 *The Best of Health* is a compilation and condensation of the best and most important health and nutrition books of the last 50 years It shows the evolution of views on holistic health practices It presents a balanced view of the natural health phenomenon including diet exercise vitamins and minerals specific diseases and the mind body connection Its format of short synopses acts as a guide to the many books on nutrition available This saves the consumer time and money they read the condensations in *The Best of Health* and use them to evaluate which approaches they wish to study in more depth

*The Invention of Physical Science* M.J. Nye, J. Richards, R. Stuewer, 2012-12-06 Modern physical science is constituted by specialized scientific fields rooted in experimental laboratory work and in rational and mathematical representations Contemporary scientific explanation is rigorously differentiated from religious interpretation

although to be sure scientists sometimes do the philosophical work of interpreting the metaphysics of space time and matter However it is rare that either theologians or philosophers convincingly claim that they are doing the scientific work of physical scientists and mathematicians The rigidity of these divisions and differentiations is relatively new Modern physical science was invented slowly and gradually through interactions of the aims and contents of mathematics theology and natural philosophy since the seventeenth century In essays ranging in focus from seventeenth century interpretations of heavenly comets to twentieth century explanations of tracks in bubble chambers ten historians of science demonstrate metaphysical and theological threads continuing to underpin the epistemology and practice of the physical sciences and mathematics even while they became disciplinary specialties during the last three centuries The volume is prefaced by tributes to Erwin N Hiebert whose teaching and scholarship have addressed and inspired attention to these issues

A History of Molecular Biology Michel Morange,2000 Every day it seems the media focus on yet another new development in biology gene therapy the human genome project the creation of new varieties of animals and plants through genetic engineering These possibilities have all emanated from molecular biology A History of Molecular Biology is a complete but compact account for a general readership of the history of this revolution Michel Morange himself a molecular biologist takes us from the turn of the century convergence of molecular biology s two progenitors genetics and biochemistry to the perfection of gene splicing and cloning techniques in the 1980s Drawing on the important work of American English and French historians of science Morange describes the major discoveries the double helix messenger RNA oncogenes DNA polymerase but also explains how and why these breakthroughs took place The book is enlivened by mini biographies of the founders of molecular biology Delbr ck Watson and Crick Monod and Jacob Nirenberg This ambitious history covers the story of the transformation of biology over the last one hundred years the transformation of disciplines biochemistry genetics embryology and evolutionary biology and finally the emergence of the biotechnology industry An important contribution to the history of science A History of Molecular Biology will also be valued by general readers for its clear explanations of the theory and practice of molecular biology today Molecular biologists themselves will find Morange s historical perspective critical to an understanding of what is at stake in current biological research

Genesis Jan Sapp,2003 What is evolution What is a gene How did these concepts originate and how did they develop This book is a short history ranging from Lamarck and Darwin to DNA and the Human Genome Project exploring the conceptual oppositions techniques institutional conditions and controversies that have shaped the development of biology

**The Craft of Scientific Presentations** Michael Alley,2013-06-21 The Craft of Scientific Presentations 2nd edition aims to strengthen you as a presenter of science and engineering The book does so by identifying what makes excellent presenters such as Brian Cox Jane Goodall Richard Feynman and Jill Bolte Taylor so strong In addition the book explains what causes so many scientific presentations to flounder One of the most valuable contributions of this text is that it teaches the assertion evidence approach to scientific

presentations Instead of building presentations as most engineers and scientists do on the weak foundation of topic phrases and bulleted lists this assertion evidence approach calls for building presentations on succinct message assertions supported by visual evidence Unlike the commonly followed topic subtopic approach that PowerPoint leads presenters to use the assertion evidence approach is solidly grounded in research By showing the differences between strong and weak presentations by identifying the errors that scientific presenters typically make and by teaching a much more powerful approach for scientific presentations than what is commonly practiced this book places you in a position to elevate your presentations to a high level In essence this book aims to have you not just succeed in your scientific presentations but excel About the Author Michael Alley has taught workshops on presentations to engineers and scientists on five continents and has recently been invited to speak at the European Space Organization Harvard Medical School MIT Sandia National Labs Shanghai Jiao Tong University Simula Research Laboratory and United Technologies An Associate Professor of engineering communication at Pennsylvania State University Alley is a leading researcher on the effectiveness of different designs for presentation slides

**Lives And Times Of Great Pioneers In Chemistry (Lavoisier To Sanger)** C N R Rao, Indumati Rao, 2015-11-18 Chemical science has made major advances in the last few decades and has gradually transformed in to a highly multidisciplinary subject that is exciting academically and at the same time beneficial to human kind In this context we owe much to the foundations laid by great pioneers of chemistry who contributed new knowledge and created new directions This book presents the lives and times of 21 great chemists starting from Lavoisier 18th century and ending with Sanger Then there are stories of the great Faraday 19th century and of the 20th century geniuses G N Lewis and Linus Pauling The material in the book is presented in the form of stories describing important aspects of the lives of these great personalities besides highlighting their contributions to chemistry It is hoped that the book will provide enjoyable reading and also inspiration to those who wish to understand the secret of the creativity of these great chemists

**The Woman Who Knew Too Much, Revised Ed.** Gayle Greene, 2017-03-02 The life story of the epidemiologist who discovered the harmful effects of fetal X rays and other radiation exposure

**The Strangest Dream** Robbie Lieberman, 2010-07-01 originally published by Syracuse University Press May 2000 Drawing on extensive archival material and oral history Robbie Lieberman illustrates how grassroots peace activism in the United States became associated with Communist subversion after World War II This association gave proponents of the Cold War a powerful weapon with which to try to silence the opposition This weapon anti communism was extremely effective until the early 1960s and its effects linger even today The persecution of peace activists as subversives dates back to the colonial era but the specific link between communism and peace developed out of the unique conditions of the Cold War Communist agitation for peace American notions of national security and freedom that rested on containing communism at all costs Not until peace organizations challenged external and internal anti Communist attacks were they able to achieve a new level of respectability The end of the Cold War enabled scholars to take a fresh look at the

peace movement in the early part of that era and how it was affected by fears about communism whether imagined or real With this book Lieberman seeks to clarify American attitudes about peace and the fate of the peace movement in ways that previous studies have overlooked or avoided

*Legends in Their Own Time* Anthony Serafini, 2013-10-07 America's scientific giants of the 20th century have transformed the world in terms of scientific understanding military preparedness and the quality and comfort of our daily lives In this exquisitely written book Anthony Serafini a respected historian and philosopher of science regales the reader with vivid descriptions of the lives and contributions of the men and women who explored the depth of molecular structure relativity astronomy quantum mechanics nuclear research and much much more These evocative and stunning portrayals of some of the greatest scientists who ever lived delve into the personalities and opinions of these pioneers Furthermore Serafini makes their significant discoveries accessible and meaningful to everyone You will meet the indefatigable Lee De Forest whose passion for wireless telegraphy resulted in the Audion Radio Tube which broadcasted radio to thousands of America's living rooms The roster of distinguished scientists continues with Ernest Lawrence who began his academic career with the hope of becoming a physician He later succumbed to the enticement of physics becoming the first to discover how to unleash the unimaginable power within the nucleus This discovery ultimately led to the creation of the atomic bomb In addition Robert Millikan astounded the scientific community by measuring the charge of an electron and convincing even the most hardened skeptics of the validity of the atomic theory of matter *Legends in Their Own Time* recounts the most exciting events that took place during the Manhattan Project It also explores the ongoing search for a Unified Field Theory of the cosmos a goal that eluded even Albert Einstein Serafini traces the evolution of scientists in America from a group of lackluster journeymen to world renowned professionals rivaling the scientific titans of Europe This perceptive author portrays how the combination of politics and war has ironically contributed to the advancement of science Through the author's insight and skill this remarkable book recounts the fascinating history of the scientific geniuses who have built the foundations of modern science and technology

**Who Wrote the Book of Life?** Lily E. Kay, 2000 This is a detailed history of one of the most important and dramatic episodes in modern science recounted from the novel vantage point of the dawn of the information age and its impact on representations of nature heredity and society Drawing on archives published sources and interviews the author situates work on the genetic code 1953-70 within the history of life science the rise of communication technosciences cybernetics information theory and computers the intersection of molecular biology with cryptanalysis and linguistics and the social history of postwar Europe and the United States Kay draws out the historical specificity in the process by which the central biological problem of DNA based protein synthesis came to be metaphorically represented as an information code and a writing technology and consequently as a book of life This molecular writing and reading is part of the cultural production of the Nuclear Age its power amplified by the centuries old theistic resonance of the book of life metaphor Yet as the author points out these are just metaphors

analogies not ontologies Necessary and productive as they have been they have their epistemological limitations Deploying analyses of language cryptology and information theory the author persuasively argues that technically speaking the genetic code is not a code DNA is not a language and the genome is not an information system objections voiced by experts as early as the 1950s Thus her historical reconstruction and analyses also serve as a critique of the new genomic biopower Genomic textuality has become a fact of life a metaphor literalized she claims as human genome projects promise new levels of control over life through the meta level of information control of the word the DNA sequences and its editing and rewriting But the author shows how the humbling limits of these scriptural metaphors also pose a challenge to the textual and material mastery of the genomic book of life **From Chemical Philosophy to Theoretical Chemistry** Mary Jo Nye,1994-03-01

How did chemistry and physics acquire their separate identities and are they on their way to losing them again Mary Jo Nye has written a graceful account of the historical demarcation of chemistry from physics and subsequent reconvergences of the two from Lavoisier and Dalton in the late eighteenth century to Robinson Ingold and Pauling in the mid twentieth century Using the notion of a disciplinary identity analogous to ethnic or national identity Nye develops a theory of the nature of disciplinary structure and change She discusses the distinctive character of chemical language and theories and the role of national styles and traditions in building a scientific discipline Anyone interested in the history of scientific thought will enjoy pondering with her the question of whether chemists of the mid twentieth century suspected chemical explanation had been reduced to physical laws just as Newtonian mechanical philosophers had envisioned in the eighteenth century *Historical Dictionary of the 1940s* James Gilbert Ryan,Leonard C Schlup,2015-03-26 The only available historical dictionary devoted exclusively to the 1940s this book offers readers a ready reference portrait of one of the twentieth century s most tumultuous decades In nearly 600 concise entries the volume quickly defines a historical figure institution or event and then points readers to three sources that treat the subject in depth In selecting topics for inclusion the editors and authors offer a representative slice of life as contemporaneous Americans saw it with coverage of people movements court cases and economic social cultural political military and technological changes The book focuses chiefly on the United States but places American lives and events firmly within a global context *Scientific American Science Desk Reference* The Editors of Scientific American,2008-05-02 Who names newly discovered planets What exactly are black holes Where are there the most earthquakes When did the first Homo sapiens walk the earth Why is the night sky dark How does the fluoride in toothpaste prevent cavities Since 1845 Scientific American has answered questions and provided the best information available in all areas of science Now Scientific American is proud to present an accessible one volume reference covering all the sciences Whether you want to examine the tiniest microbes the properties of the earth s core or the farthest reaches of space this handy desk reference is the resource to turn to for the answers you need Over 500 biographies of key science figures Thousands of glossary terms Hundreds of useful Web sites Tables charts diagrams and illustrations Sidebars featuring

fascinating facts mnemonic aids and quizzes Essays exploring ideas in depth      **The Molecular Vision of Life** Lily E. Kay, 1993 This fascinating study examines the rise of American molecular biology to disciplinary dominance focusing on the period between 1930 and the elucidation of DNA structure in the mid 1950s Research undertaken during this period with its focus on genetic structure and function endowed scientists with then unprecedented power over life By viewing the new biology as both a scientific and cultural enterprise Lily E Kay shows that the growth of molecular biology was a result of systematic efforts by key scientists and their sponsors to direct the development of biological research toward a shared vision of science and society She analyzes the motivations and mechanisms empowering this vision by focusing on two key institutions Caltech and its sponsor the Rockefeller Foundation Her study explores a number of vital sometimes controversial topics among them the role of private power centers in shaping scientific agenda and the political dimensions of pure research It also advances a sobering argument the cognitive and social groundwork for genetic engineering and human genome projects was laid by the American architects of molecular biology during these early decades of the project This book will be of interest to molecular biologists historians sociologists and the general reader alike      Physical Chemistry Paul M. S. Monk, 2008-03-11 Understanding Physical Chemistry is a gentle introduction to the principles and applications of physical chemistry The book aims to introduce the concepts and theories in a structured manner through a wide range of carefully chosen examples and case studies drawn from everyday life These real life examples and applications are presented first with any necessary chemical and mathematical theory discussed afterwards This makes the book extremely accessible and directly relevant to the reader Aimed at undergraduate students taking a first course in physical chemistry this book offers an accessible applications led approach to enhance understanding and encourage and inspire the reader to learn more about the subject A comprehensive introduction to physical chemistry starting from first principles Carefully structured into short self contained chapters Introduces examples and applications first followed by the necessary chemical theory

**Linus Pauling** Anthony Serafini, 1989-01-01      **Einstein** Denis Brian, 1997-08-21 Blends the brilliance of the scientific genius with the compassion playfulness and wit of the private figure A fascinating read with more interesting material about Einstein as a human being than I have ever seen before Robert Jastrow astrophysicist and bestselling author A thoughtful and captivating account of one whom I had the joy of knowing and loving George Wald Nobel Prize Laureate His face is one of the most recognized on the planet His very name is synonymous with genius Yet for all the attention and countless biographies our images of Albert Einstein rarely go beyond the eccentric and larger than life scientist unraveling one cosmic mystery after another In this engaging popular biography Denis Brian draws on a wealth of new information recently opened to the public to bring us a broader more authentic portrait of Einstein than previously available The first full scale Einstein life published in 20 years it is also the first to integrate Einstein s genius with his private and public life to give us a complete impression of the real person We meet an Einstein with a gift for friendship a romantic with a roving eye for women We



confront a man whose countless scientific triumphs were tempered by tragic ironies in his personal life We encounter Einstein the humanist who showed compassion for the children of others yet neglected his own sons We learn from his former assistants how they revered Einstein how he worked at his science and of his warm relationships with other physicists Based on information drawn from new access to the Einstein archives as well as exclusive interviews with colleagues and friends Einstein A Life reveals an endearing and sensitive man but one slightly detached from even those closest to him as if he inhabited his own world of lofty thoughts and cosmic dreams DENIS BRIAN West Palm Beach Florida is the author of The True Gen An Intimate Portrait of Hemingway by Those Who Knew Him and Genius Talk Conversations with Nobel Scientists and Other Luminaries Biology/science Materials Carolina Biological Supply Company,1991

## **Linus Pauling A Man And His Science By Anthony Serafini** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has are more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Linus Pauling A Man And His Science By Anthony Serafini**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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