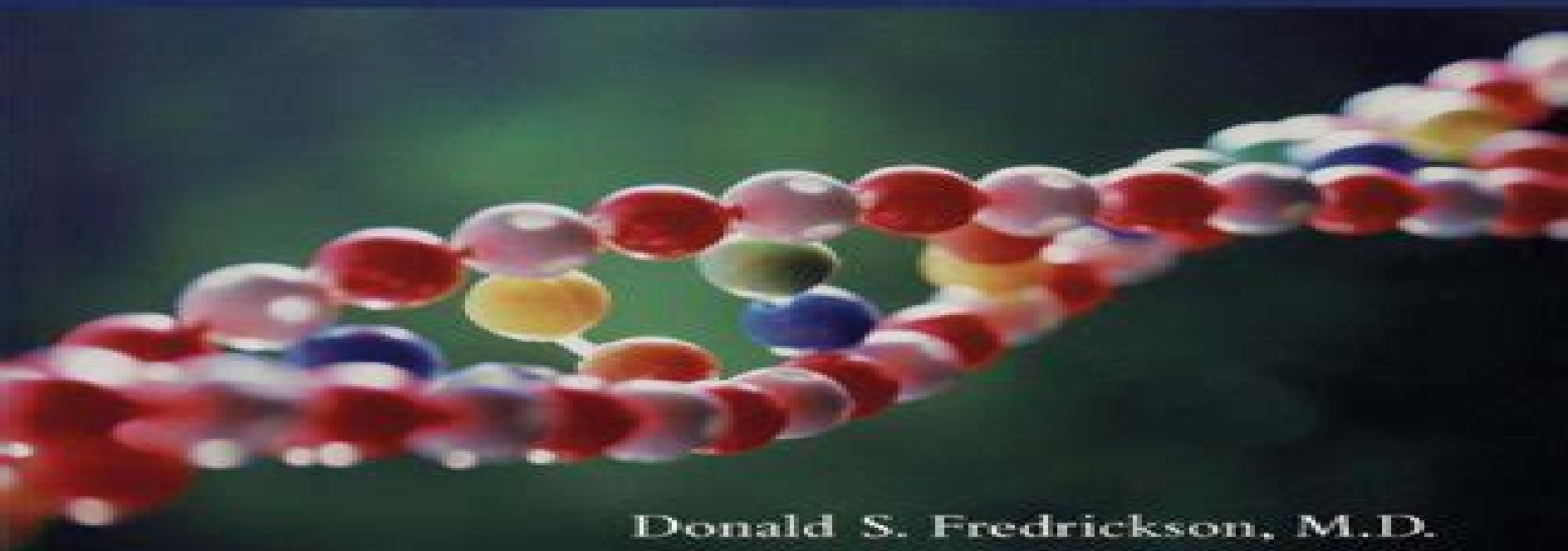


The Recombinant DNA Controversy

A Memoir

Science, Politics, and the Public Interest
1974–1981



Donald S. Fredrickson, M.D.

Former Director, National Institutes of Health

Recombinant Dna Controversy A Memoir

Theodore L. Brown



Recombinant Dna Controversy A Memoir:

The Recombinant DNA Controversy Donald S. Fredrickson, 2001 *The Recombinant DNA Controversy* Donald S. Fredrickson, M.D., Scholar, Donald S. Fredrickson, 2001-01-01 In this fascinating memoir Donald Fredrickson tells the story of the controversy over recombinant DNA and its revolutionary impact on modern science As director of the National Institutes of Health Dr Fredrickson was in a perfect position to witness and share in the dynamics of this important time Thin book provides a unique perspective on the recombinant DNA debate in the United States The Recombinant DNA Controversy describes the actions which NIH and the Recombinant DNA Advisory Committee under the careful watch of the scientific community the government and skeptical members of the public undertook to win society's acceptance of this new technology while keeping science moving cautiously forward Relying on vast archives of hearings records correspondence and extensive personal records and diaries Dr Fredrickson recalls the numerous personalities from microbiology molecular biology and other scientific disciplines as well as the leaders among Congress the administration and government agencies environmentalists and many others who had a role during this challenging period *The Recombinant DNA Controversy* Donald S. Fredrickson, 2001 Relying on vast archives of hearings records correspondence and extensive personal records and diaries Dr Fredrickson recalls the numerous personalities from microbiology molecular biology and other scientific disciplines as well as the leaders among Congress the administration and government agencies environmentalists and many others who had a role during this challenging period **BOOK JACKET** Biography Of Paul Berg, A: The Recombinant Dna Controversy Revisited Errol C Friedberg, 2014-06-17 With a Foreword by Sydney Brenner Nobel laureate in Physiology or Medicine 2002 This biography details the life of Paul Berg Emeritus Professor at Stanford University tracing Berg's life from birth in 1926 to the present with special emphasis on his enormous scientific contributions including being the first to develop technology that led to gene cloning science In 1980 Berg received a Nobel Prize in chemistry for this work In addition to his contributions in the research laboratory Berg orchestrated and oversaw a historic meeting at Asilomar California that centered on a threatening controversy surrounding the perception by some of the harmful potential of recombinant DNA technology This meeting did much to forestall this controversy and to put in place the regulation of recombinant DNA work thus putting fears to rest The recombinant DNA controversy was a historic outcome of the discovery of gene cloning Notably it represented a paramount example of scientific foresight and due diligence by the scientific community rather than by regulatory entities in the United States and many other countries The ultimate acceptance of gene DNA cloning led to a new era of modern biology that thrives to the present This book is aimed primarily at scientists and those in training The book strives to simply provide information for the general reader but is not specifically tailored for a general reading audience While many books cover the recombinant DNA controversy none have satisfactorily addressed this historic period and are often contradictory about the many who's where's and why's involved Additionally the great majority

of these were written by non scientists This biography of Paul Berg provides access to numerous archived letters and documents at Stanford University not previously addressed and to the chronology of events as recalled and documented by him as well as other key personalities many of whom were interviewed *Biographical Memoirs* National Academy of Sciences,2006-01-08 Biographic Memoirs Volume 87 contains the biographies of deceased members of the National Academy of Sciences and bibliographies of their published works Each biographical essay was written by a member of the Academy familiar with the professional career of the deceased For historical and bibliographical purposes these volumes are worth returning to time and again Oversight and Review of Clinical Gene Transfer Protocols Institute of Medicine,Board on Health Sciences Policy,Committee on the Independent Review and Assessment of the Activities of the NIH Recombinant DNA Advisory Committee,2014-03-27 Gene transfer research is a rapidly advancing field that involves the introduction of a genetic sequence into a human subject for research or diagnostic purposes Clinical gene transfer trials are subject to regulation by the U S Food and Drug Administration FDA at the federal level and to oversight by institutional review boards IRBs and institutional biosafety committees IBCs at the local level before human subjects can be enrolled In addition at present all researchers and institutions funded by the National Institutes of Health NIH are required by NIH guidelines to submit human gene transfer protocols for advisory review by the NIH Recombinant DNA Advisory Committee RAC Some protocols are then selected for individual review and public discussion Oversight and Review of Clinical Gene Transfer Protocols provides an assessment of the state of existing gene transfer science and the current regulatory and policy context under which research is investigated This report assesses whether the current oversight of individual gene transfer protocols by the RAC continues to be necessary and offers recommendations concerning the criteria the NIH should employ to determine whether individual protocols should receive public review The focus of this report is on the standards the RAC and NIH should use in exercising its oversight function Oversight and Review of Clinical Gene Transfer Protocols will assist not only the RAC but also research institutions and the general public with respect to utilizing and improving existing oversight processes The Recombinant University Doogab Yi,2015-03-23 The advent of recombinant DNA technology in the 1970s was a key moment in the history of both biotechnology and the commercialization of academic research Doogab Yi s *The Recombinant University* draws us deeply into the academic community in the San Francisco Bay Area where the technology was developed and adopted as the first major commercial technology for genetic engineering In doing so it reveals how research patronage market forces and legal developments from the late 1960s through the early 1980s influenced the evolution of the technology and reshaped the moral and scientific life of biomedical researchers Bay Area scientists university administrators and government officials were fascinated by and increasingly engaged in the economic and political opportunities associated with the privatization of academic research Yi uncovers how the attempts made by Stanford scientists and administrators to demonstrate the relevance of academic research were increasingly mediated by capitalistic conceptions of knowledge medical innovation and

the public interest Their interventions resulted in legal shifts and moral realignments that encouraged the privatization of academic research for public benefit The Recombinant University brings to life the hybrid origin story of biotechnology and the ways the academic culture of science has changed in tandem with the early commercialization of recombinant DNA technology

The PKU Paradox Diane B. Paul, Jeffrey P. Brosco, 2013-12-01 Named one of the Ten must read science histories by Science Magazine In a lifetime of practice most physicians will never encounter a single case of PKU Yet every physician in the industrialized world learns about the disease in medical school and since the early 1960s the newborn heel stick test for PKU has been mandatory in many countries Diane B Paul and Jeffrey P Brosco s beautifully written book explains this paradox PKU phenylketonuria is a genetic disorder that causes severe cognitive impairment if it is not detected and treated with a strict and difficult diet Programs to detect PKU and start treatment early are deservedly considered a public health success story Some have traded on this success to urge expanded newborn screening defend basic research in genetics and confront proponents of genetic determinism In this context treatment for PKU is typically represented as a simple matter of adhering to a low phenylalanine diet In reality the challenges of living with PKU are daunting In this first general history of PKU a historian and a pediatrician explore how a rare genetic disease became the object of an unprecedented system for routine testing The PKU Paradox is informed by interviews with scientists clinicians policymakers and individuals who live with the disease The questions it raises touch on ongoing controversies about newborn screening and what happens to blood samples collected at birth

Modern Prometheus Jim Kozubek, 2018-04-26 This updated paperback edition contains all the very latest on the dramatic story of Crispr and the potential impact of this gene editing technology

Modern Prometheus James Kozubek, 2016-10-18 Would you change your genes if you could As we confront the industrial revolution of the genome the recent discoveries of Crispr Cas9 technologies are offering for the first time cheap and effective methods for editing the human genome This opens up startling new opportunities as well as significant ethical uncertainty Tracing events across a fifty year period from the first gene splicing techniques to the present day this is the story of gene editing the science the impact and the potential Kozubek weaves together the fascinating stories of many of the scientists involved in the development of gene editing technology Along the way he demystifies how the technology really works and provides vivid and thought provoking reflections on the continuing ethical debate Ultimately Kozubek places the debate in its historical and scientific context to consider both what drives scientific discovery and the implications of the commodification of life

A History of the Life Sciences, Revised and Expanded Lois N. Magner, 2002-08-13 A clear and concise survey of the major themes and theories embedded in the history of life science this book covers the development and significance of scientific methodologies the relationship between science and society and the diverse ideologies and current paradigms affecting the evolution and progression of biological studies The author discusses cell theory embryology physiology microbiology evolution genetics and molecular biology the Human Genome Project and genomics and proteomics

Covering the philosophies of ancient civilizations to modern advances in genomics and molecular biology the book is a unique and comprehensive resource Human Dignity in the Biotech Century Charles W. Colson, Nigel M. de S.

Cameron, 2004-07-07 Editors Charles W Colson and Nigel M de S Cameron along with a panel of expert contributors address in twelve essays the watershed legal and ethical challenges before us in twenty first century biotechnology stem cell research cloning gene therapy pharmacogenomics cybernetics abortion and more The Black Box of Biology Michel

Morange, 2020-06-09 Michel Morange updates the history of molecular biology at a moment when scientists are making big strides in genetic engineering and exploring new avenues from epigenetics to systems biology Morange places the latest findings and ideas in historical context describing in accessible terms how transformative the molecular revolution has been

Millennial Biology: The National Science Foundation and American Biology, 1975-2005 Donald J. McGraw, 2021-01-25 National Science Foundation NSF is a unique federal agency because it supports scientific research financially but does not engage in scientific work itself Its history is known only in part because the NSF is a vibrant expanding and living entity that makes the final telling of its story impossible Much can be learned from its beginning as well as its component parts If the founding of the NSF in 1950 was couched in an era of physics especially atomic physics certainly by the end of the 20th century and the beginning of the 21st biology was and remains the queen of sciences for the predictable future This book highlights the elite status of America s biological sciences as they were funded affected and to a very real degree interactively guided by the NSF It examines important events in the earlier history of the Foundation because they play strongly upon the development of the various biology directorates Issues such as education applied research medical science the National Institutes of Health the beginnings of biotechnology and other matters are also discussed The Science of Science Policy Julia I. Lane, Kaye Husbands Fealing, John H. Marburger, III, Stephanie S. Shipp, 2011-03-18 Basic scientific research and technological development have had an enormous impact on innovation economic growth and social well being Yet science policy debates have long been dominated by advocates for particular scientific fields or missions In the absence of a deeper understanding of the changing framework in which innovation occurs policymakers cannot predict how best to make and manage investments to exploit our most promising and important opportunities Since 2005 a science of science policy has developed rapidly in response to policymakers increased demands for better tools and the social sciences capacity to provide them The Science of Science Policy A Handbook brings together some of the best and brightest minds working in science policy to explore the foundations of an evidence based platform for the field The contributions in this book provide an overview of the current state of the science of science policy from three angles theoretical empirical and policy in practice They offer perspectives from the broader social science behavioral science and policy communities on the fascinating challenges and prospects in this evolving arena Drawing on domestic and international experiences the text delivers insights about the critical questions that create a demand for a science of science policy *Genesis of the Salk Institute* Suzanne

Bourgeois,2013-08-24 This work is a personal account of the origins and early years of the Salk Institute for Biological Studies Bourgeois crafts an engaging study that draws on her involvement with the Institute and on related archives interviews and informal conversations The volume discusses the people who founded the Institute and built a home for renowned research leading scientists of the time as well as non scientists of stature in finance politics philanthropy publishing and the humanities The events that brought people together the historic backdrop in which they worked their personalities their courage and their visions their clash of egos and their personal vanities are woven together in a rich engaging narrative about the founding of a world premier research institution Imperfect Oracle Theodore L.

Brown,2009-01-01 Science and its offshoot technology enter into the very fabric of our society in so many ways that we cannot imagine life without them We are surrounded by crises and debates over climate change stem cell research AIDS evolutionary theory and intelligent design the use of DNA in solving crimes and many other issues Society is virtually forced to follow our natural tendency which is to give great weight to the opinions of scientific experts How is it that these experts have come to acquire such authority and just how far does their authority reach Does specialized knowledge entitle scientists to moral authority as well How does scientific authority actually function in our society and what are the countervailing social forces including those deriving from law politics and religion with which it has to contend Theodore Brown seeks to answer such questions in this magisterial work of synthesis about the role of science in society In Part I he elucidates the concept of authority and its relation to autonomy and then traces the historical growth of scientific authority and its place in contemporary American society In Part II he analyzes how scientific authority plays out in relation to other social domains such as law religion government and the public sphere **The National Institutes of Health** John Kastor,2010-04-29 This

book describes the premier organization for the performance and funding of biomedical research in the United States By articulating events that occurred at the National Institutes of Health from 1991 2008 this volume also examines the leadership of directors Bernadine Healy Harold Varmus and Elias Zerhouni To conduct his research Dr Kastor interviewed more than 200 people currently working at the NIH those who have left and those funded by the institute In an engaging and dynamic prose style Dr Kastor presents his findings on the operations problems controversies finances politics and structure of the NIH The book begins by examining topics such as the NIH s evaluation of grant funding the argument between those who favor support of basic biomedical science versus clinical research the inclusion of HIV AIDS in the National Institute of Allergy and Infectious Diseases and the unique features of the Clinical Center the hospital of the NIH The volume concludes with a review of the recent conflict of interest controversy the NIH s response to recent budget constrictions and the role of the institute in the Obama administration Proceedings, American Philosophical Society (vol. 148, no. 3, 2004) ,

Implantable Bioelectronics Evgeny Katz,2014-02-27 Here the renowned editor Evgeny Katz has chosen contributions that cover a wide range of examples and issues in implantable bioelectronics resulting in an excellent overview of the topic

The various implants covered include biosensoric and prosthetic devices as well as neural and brain implants while ethical issues suitable materials biocompatibility and energy harvesting devices are also discussed A must have for both newcomers and established researchers in this interdisciplinary field that connects scientists from chemistry material science biology medicine and electrical engineering

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