

**A  
DOCUMENTARY  
HISTORY**

# Genetic Engineering

Thomas A. Shannon

# Genetic Engineering A Documentary History

**Staffan Müller-Wille, Hans-Jörg  
Rheinberger**



## **Genetic Engineering A Documentary History:**

**Genetic Engineering** Thomas A. Shannon,1999-09-30 The documents in each section carefully selected to represent a wide range of positions present samples of social ethical and religious commentary that have evolved due to developments in modern genetics as they relate to plants animals and humans **BOOK JACKET** Genetic Engineering Ray Spangenburg,2004 Discusses the use of genetic engineering in plants and animals and the hopes spurred by the mapping of human DNA by the Human Genome Project as well as the controversy over using stem cells for disease research *The DNA Story* James D. Watson,John Tooze,1981 Reproduces articles commentary and correspondence generated by scientific discoveries on genetics and gene cloning with a final section detailing the scientific background **Reader's Guide to the History of Science** Arne Hessenbruch,2013-12-16 The Reader s Guide to the History of Science looks at the literature of science in some 550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn

**Genetic Engineering** Lisa Yount,2002 From genetically modified foods to human cloning aspects of genetic engineering modifying genes of living things in the laboratory stir up strong feelings and lively debate This timely anthology presents overviews and pro and con viewpoints on such subjects as genetic engineering in agriculture engineering of human genes and regulation of genetic engineering Science in the Contemporary World Eric G. Swedin,2005-03-08 This work is a unique introductory A Z resource detailing the scientific achievements of the contemporary world and analyzing the key scientific trends discoveries and personalities of the modern age An authoritative reference survey of the modern age of scientific discovery Science in the Contemporary World is a scholarly yet accessible chronicle of scientific achievement from the discovery of penicillin to the latest developments in space exploration and cloning Over 200 A Z entries cover the full spectrum of contemporary science with emphasis on its diverse nature Within the last 50 years medicine has eradicated the killer disease smallpox but primarily because the virus can live only in humans Space probes have revealed that on Europa a moon of Jupiter an ice capped ocean with the potential to support life probably exists Marvels from animal psychology and deep sea exploration are also explored extensively **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 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 Delbrück 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

A Cultural History of Heredity Staffan Müller-Wille, Hans-Jörg Rheinberger, 2020-03-04 Thought provoking any scientist interested in genetics will find this an enlightening look at the history of this field Quarterly Review of Biology It was only around 1800 that heredity began to enter debates among physicians breeders and naturalists Soon thereafter it evolved into one of the most fundamental concepts of biology Here Staffan Muller Wille and Hans Jorg Rheinberger offer a succinct cultural history of the scientific concept of heredity They outline the dramatic changes the idea has undergone since the early modern period and describe the political and technological developments that brought about these changes They begin with an account of premodern theories of generation showing that these were concerned with the procreation of individuals rather than with hereditary transmission and reveal that when hereditarian thinking first emerged it did so in a variety of cultural domains such as politics and law medicine natural history breeding and anthropology The authors then track theories of heredity from the late nineteenth century when leading biologists considered it in light of growing societal concerns with race and eugenics through the rise of classical and molecular genetics in the twentieth century to today as researchers apply sophisticated information technologies to understand heredity What we come to see from this exquisite history is why it took such a long time for heredity to become a prominent concept in the life sciences and why it gained such overwhelming importance in those sciences and the broader culture over the last two centuries

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

**New Developments in Biotechnology: Field-testing engineered organisms : genetic and ecological issues**, 1987 *New developments in biotechnology : field-testing engineered organisms : genetic and ecological issues : contractor documents, volume 2.* , **Regulating Next Generation Agri-Food Biotechnologies**

Michael Howlett, David Laycock, 2013-05-07 Agri food bio technology policy and regulation is transitioning from an early period focused on genetic engineering technologies to next generation rules and regulatory processes linked to challenges originating in a wide variety of new technological processes and applications Can lessons learned from past and current regulatory oversights of agricultural biotechnology and other high technology sectors help us address new and emerging regulatory challenges in the agri food genetics sector The expert contributors in this volume discuss the experiences of a wide range of North American European and Asian countries with high technology regulation to address four key questions related to the past and future development of agri food genomics regulation across the globe how unique is agri food biotechnology regulation and how can it be evaluated using the existing tools of regulatory analysis developed in examinations of other sectors is a government to governance model of regulatory regime development found in many other sectors relevant in this rapidly evolving sphere of activity is a stages model of regulatory regime development accurate And if so at which stage are we currently positioned in the regulation of agri food genomics products and technologies what drives movement between stages in different countries and sectors In assessing such drivers what are the key links between sectoral meso developments and more general macro and micro developments such as international relations and administrative behaviour By updating extending and challenging earlier empirical and theoretical social science perspectives on agricultural bio technological regulation this volume helps to inform future policy formulation It will be of interest to practitioners and students of biotechnology agriculture and science and technology policy and regulatory processes more generally *Genetic Engineering* Thomas A. Shannon, 1999-09-30 The documents in each section carefully selected to

represent a wide range of positions present samples of social ethical and religious commentary that have evolved due to developments in modern genetics as they relate to plants animals and humans

**BOOK JACKET Genentech** Sally Smith Hughes, 2011-09-21 In the fall of 1980 Genentech Inc a little known California genetic engineering company became the overnight darling of Wall Street raising over 38 million in its initial public stock offering Lacking marketed products or substantial profit the firm nonetheless saw its share price escalate from 35 to 89 in the first few minutes of trading at that point the largest gain in stock market history Coming at a time of economic recession and declining technological competitiveness in the United States the event provoked banner headlines and ignited a period of speculative frenzy over biotechnology as a revolutionary means for creating new and better kinds of pharmaceuticals untold profit and a possible solution to national economic malaise Drawing from an unparalleled collection of interviews with early biotech players Sally Smith Hughes offers the first book length history of this pioneering company depicting Genentech's improbable creation precarious youth and ascent to immense prosperity Hughes provides intimate portraits of the people significant to Genentech's science and business including cofounders Herbert Boyer and Robert Swanson and in doing so sheds new light on how personality affects the growth of science By placing Genentech's founders followers opponents victims and beneficiaries in context Hughes also demonstrates how science interacts with commercial and legal interests and university research and with government regulation venture capital and commercial profits Integrating the scientific the corporate the contextual and the personal Genentech tells the story of biotechnology as it is not often told as a risky and improbable entrepreneurial venture that had to overcome a number of powerful forces working against it

*Human Rights and the Third World* Subrata Sankar Bagchi, Arnab Das, 2012-12-06 Human Rights and the Third World Issues and Discourses deals with the controversial questions on the universalistic notions of human rights It finds Third World perspectives on human rights and seeks to open up a discursive space in the human rights discourse to address unresolved questions citing issues and problems from different countries in the Third World

- 1 Whether alternative perspectives should be taken as the standard for human rights in the Third World countries
- 2 Should there be a universalistic notion of rights for Homo sapiens or are we talking about two diametrically opposite trends and standards of human rights for the same species
- 3 How far these Third World perspectives of human rights can ensure the protection of the minorities and the vulnerable sections of population particularly the women and children within the Third World
- 4 Can these alternative perspectives help in fighting the Third World problems like poverty hunger corruption despotism social exclusion like the caste system in India communalism and the like
- 5 Can there be reconciliation between the Third World perspectives and the Western perspective of human rights

**A Culture of Improvement** Robert Friedel, 2010-02-26 How technological change in the West has been driven by the pursuit of improvement a history of technology from plows and printing presses to penicillin the atomic bomb and the computer Why does technology change over time how does it change and what difference does it make In this sweeping ambitious look at a

thousand years of Western experience Robert Friedel argues that technological change comes largely through the pursuit of improvement the deep rooted belief that things could be done in a better way What Friedel calls the culture of improvement is manifested every day in the ways people carry out their tasks in life from tilling fields and raising children to waging war Improvements can be ephemeral or lasting and one person s improvement may not always be viewed as such by others Friedel stresses the social processes by which we define what improvements are and decide which improvements will last and which will not These processes he emphasizes have created both winners and losers in history Friedel presents a series of narratives of Western technology that begin in the eleventh century and stretch into the twenty first Familiar figures from the history of invention are joined by others the Italian preacher who described the first eyeglasses the dairywomen displaced from their control over cheesemaking and the little known engineer who first suggested a grand tower to Gustav Eiffel Friedel traces technology from the plow and the printing press to the internal combustion engine the transistor and the space shuttle Friedel also reminds us that faith in improvement can sometimes have horrific consequences as improved weaponry makes warfare ever more deadly and the drive for improving human beings can lead to eugenics and even genocide The most comprehensive attempt to tell the story of Western technology in many years engagingly written and lavishly illustrated A Culture of Improvement documents the ways in which the drive for improvement has shaped our modern world

Worse Than the Disease Diana Barbara Dutton, 1992-05-29 The distance between medical and public priorities is exposed in four case studies that reveal the human choices governing scientific innovation and explore the political economic and social factors influencing those choices

**The Many Faces Of Science** Henry Byerly, 2018-03-05 In *The Many Faces of Science* Leslie Stevenson and Henry Byerly masterfully and painlessly provide the information and the philosophical reflections students need to gain an understanding of the institution of modern science and its increasing impact on our lives and cultures In this second edition the authors update topics they explored in the first edition and present new case studies on subjects such as HIV and AIDS women in science and work done in psychology and the social sciences The authors also extend their discussion of science and values in addition to revising their study of science and technology to emphasize changes in scientific practice today Accessible and rich with case studies anecdotes personal asides and keen insight *The Many Faces of Science* is the ideal interdisciplinary introduction for nonscientists and scientists in courses on science studies science and society and science and human values It will also prove useful as supplementary reading in courses on science and philosophy sociology and political science

**Troublemakers** Leslie Berlin, 2017-11-07 Acclaimed historian Leslie Berlin s deeply researched and dramatic narrative of Silicon Valley s early years is a meticulously told compelling history The New York Times of the men and women who chased innovation and ended up changing the world *Troublemakers* is the gripping tale of seven exceptional men and women pioneers of Silicon Valley in the 1970s and early 1980s Together they worked across generations industries and companies to bring technology from Pentagon offices and

university laboratories to the rest of us In doing so they changed the world In this vigorous account a sturdy skillfully constructed work Kirkus Reviews historian Leslie Berlin introduces the people and stories behind the birth of the Internet and the microprocessor as well as Apple Atari Genentech Xerox PARC ROLM ASK and the iconic venture capital firms Sequoia Capital and Kleiner Perkins Caufield Bob Taylor who masterminded the personal computer software entrepreneur Sandra Kurtzig the first woman to take a technology company public Bob Swanson the cofounder of Genentech Al Alcorn the Atari engineer behind the first successful video game Fawn Alvarez who rose from the factory line to the executive suite and Niels Reimers the Stanford administrator who changed how university innovations reach the public Together these troublemakers rewrote the rules and invented the future



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