

THE GOLDEN HELIX

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**Mario Biagioli, Peter Jaszi, Martha
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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 Triple Helix Henry Etzkowitz, Chunyan Zhou, 2017-09-25 The triple helix of university industry government interactions is a universal model for the development of the knowledge based society through innovation and entrepreneurship It draws from the innovative practice of Massachusetts Institute of Technology MIT with industry and government in inventing a regional renewal strategy in early 20th century New England Parallel experiences were identified in Silicon Valley where Stanford University works together with industry and government Triple helix is identified as the secret of such innovative regions It may also be found in statist or laissez faire societies globally The triple helix focuses on innovation in innovation and the dynamic to foster an innovation ecosystem through various hybrid organizations such as technology transfer offices venture capital firms incubators accelerators and science parks This second edition develops the practical and policy implications of the triple helix model with case studies exemplifying the meta theory including how to make an innovative region through the triple helix approach balancing development and sustainability by triple helix twins triple helix matrix to analyze regional innovation globally and case studies on the Stanford's StartX accelerator the Ashland Oregon Theater Arts Clusters and Linyi regional innovation in China The Triple Helix as a universal innovation model can assist students researchers managers entrepreneurs and policymakers to understand the roles of university industry and government in forming and developing an innovative region which has self renewal and sustainable innovative capacity

Gene Jockeys Nicolas Rasmussen, 2014-05-15 The scientific scramble to discover the first generation of drugs created through genetic engineering The biotech arena emerged in the 1970s and 1980s when molecular biology one of the fastest

moving areas of basic science in the twentieth century met the business world Gene Jockeys is a detailed study of the biotech projects that led to five of the first ten recombinant DNA drugs to be approved for medical use in the United States human insulin human growth hormone alpha interferon erythropoietin and tissue plasminogen activator Drawing on corporate documents obtained from patent litigation as well as interviews with the ambitious biologists who called themselves gene jockeys historian Nicolas Rasmussen chronicles the remarkable and often secretive work of the scientists who built a new domain between academia and the drug industry in the pursuit of intellectual rewards and big payouts In contrast to some who critique the rise of biotechnology Rasmussen contends that biotech was not a swindle even if the public did pay a very high price for the development of what began as public scientific resources Within the biotech enterprise the work of corporate scientists went well beyond what biologists had already accomplished within universities and it accelerated the medical use of the new drugs by several years In his technically detailed and readable narrative Rasmussen focuses on the visible and often heavy hands that construct and maintain the markets in public goods like science He looks closely at how science follows money and vice versa as researchers respond to the pressures and potential rewards of commercially viable innovations In biotechnology many of those engaged in crafting markets for genetically engineered drugs were biologists themselves who were in fact trying to do science This book captures that heady fleeting moment when a biologist could expect to do great science through the private sector and be rewarded with both wealth and scientific acclaim Managing Discovery in the Life Sciences Philip A. Rea, Mark V. Pauly, Lawton R. Burns, 2018-02-01 In this book distinguished scholars Philip A Rea Mark V Pauly and Lawton R Burns explore the science and management behind marketable biomedical innovations They look at how the science actually played out through the interplay of personalities the cultures within and between academic and corporate entities and the significance of serendipity not as a mysterious phenomenon but one intrinsic to the successes and failures of the experimental approach With newly aggregated data and case studies they consider the fundamental economic underpinnings of investor driven discovery management not as an obstacle or deficiency as its critics would contend or as something beyond reproach as some of its proponents might claim but as the only means by which scientists and managers can navigate the unknowable to discover new products and decide how to sell them so as to maximize the likelihood of establishing a sustainable pipeline for still more marketable biomedical innovations **A Century of Nobel Prize Recipients** Francis Leroy, 2003-03-13 Celebrating a century of revolutionary contributions to our understanding of life the world and the universe this encyclopedic desk reference traces the discoveries that earned nearly 500 distinguished scientists Nobel honors in the areas of chemistry physics and medicine The School of Library Journal called it eye catching Original artwork colorful captioned drawings of models and structures and diagrams illustrate complex scientific principles and may invite browsing great graphics and appealing format This book includes over 550 full color illustrations and photographs and is a must for the library of any public university business or personal library

Imagination José Van Dijck, 1998-01-31 Genetics seems more popular than ever DNA technology not only sustains large areas of biomedicine and business but also prevails in social and legal practices and takes root in cultural products Since the late 1950s the public image of genetics metamorphosed from a suspect branch of research into a thriving well funded field of biomedicine Images and imaginations have played a crucial role in the popularization of genetic knowledge The media played up images of engineered bugs scientists promoted images of selfish genes and science fiction writers infested the imagination with stories of cloned monsters Image nation examines the role of science journalism and fiction in the popularization of genetics

The Scientific Life Steven Shapin, 2009-08-01 Who are scientists What kind of people are they What capacities and virtues are thought to stand behind their considerable authority They are experts indeed highly respected experts authorized to describe and interpret the natural world and widely trusted to help transform knowledge into power and profit But are they morally different from other people The Scientific Life is historian Steven Shapin's story about who scientists are who we think they are and why our sensibilities about such things matter Conventional wisdom has long held that scientists are neither better nor worse than anyone else that personal virtue does not necessarily accompany technical expertise and that scientific practice is profoundly impersonal Shapin however here shows how the uncertainties attending scientific research make the virtues of individual researchers intrinsic to scientific work From the early twentieth century origins of corporate research laboratories to the high flying scientific entrepreneurship of the present Shapin argues that the radical uncertainties of much contemporary science have made personal virtues more central to its practice than ever before and he also reveals how radically novel aspects of late modern science have unexpectedly deep historical roots His elegantly conceived history of the scientific career and character ultimately encourages us to reconsider the very nature of the technical and moral worlds in which we now live Building on the insights of Shapin's last three influential books featuring an utterly fascinating cast of characters and brimming with bold and original claims The Scientific Life is essential reading for anyone wanting to reflect on late modern American culture and how it has been shaped

Time to Heal Kenneth M. Ludmerer M.D., 1999-11-11 Already the recipient of extraordinary critical acclaim this magisterial book provides a landmark account of American medical education in the twentieth century concluding with a call for the reformation of a system currently handicapped by managed care and by narrow self centered professional interests Kenneth M Ludmerer describes the evolution of American medical education from 1910 when a muck raking report on medical diploma mills spurred the reform and expansion of medical schools to the current era of managed care when commercial interests once more have come to the fore compromising the training of the nation's future doctors Ludmerer portrays the experience of learning medicine from the perspective of students house officers faculty administrators and patients and he traces the immense impact on academic medical centers of outside factors such as World War II the National Institutes of Health private medical insurance and Medicare and Medicaid Most notably the book explores the very real threats to medical

education in the current environment of managed care viewing these developments not as a catastrophe but as a challenge to make many long overdue changes in medical education and medical practice Panoramic in scope meticulously researched brilliantly argued and engagingly written *Time to Heal* is both a stunning work of scholarship and a courageous critique of modern medical education The definitive book on the subject it provides an indispensable framework for making informed choices about the future of medical education and health care in America *Making and Unmaking Intellectual Property* Mario Biagioli, Peter Jaszi, Martha Woodmansee, 2015-07-31 Rules regulating access to knowledge are no longer the exclusive province of lawyers and policymakers and instead command the attention of anthropologists economists literary theorists political scientists artists historians and cultural critics This burgeoning interdisciplinary interest in intellectual property has also expanded beyond the conventional categories of patent copyright and trademark to encompass a diverse array of topics ranging from traditional knowledge to international trade Though recognition of the central role played by knowledge economies has increased there is a special urgency associated with present day inquiries into where rights to information come from how they are justified and the ways in which they are deployed *Making and Unmaking Intellectual Property* edited by Mario Biagioli Peter Jaszi and Martha Woodmansee presents a range of diverse and even conflicting contemporary perspectives on intellectual property rights and the contested sources of authority associated with them Examining fundamental concepts and challenging conventional narratives including those centered around authorship invention and the public domain this book provides a rich introduction to an important intersection of law culture and material production

Emperor Of Enzymes: A Biography Of Arthur Kornberg, Biochemist And Nobel Laureate Errol C Friedberg, 2016-05-18 This book chronicles the life and work of the late Arthur Kornberg one of the premier biochemists in the world who discovered the enzyme DNA polymerase a key enzyme required for the biosynthesis of DNA The book provides readers with a view of the personality and character of one of the great biochemists of the late 20th century as well as insights into the origin and growth of the discipline of nucleic acid biochemistry especially the biosynthesis of DNA The book consists of 17 chapters that trace the life and work of Arthur Kornberg **A to Z of Biologists, Updated Edition** Lisa Yount, 2019-10-01 Praise for the previous edition the coverage of women races and international history in general make it a good source for exploring the many faces of biologists American Reference Books Annual useful School Library Journal Recommended Choice *A to Z of Biologists Updated Edition* uses the device of biography to put a human face on science a method that adds immediacy for the high school student who might have an interest in pursuing a career in biology This comprehensive survey features more than 150 entries and 50 black and white photographs Each profile focuses on a biologist's research and contributions to the field and their effect on scientists whose work followed Their lives and personalities are also discussed through incidents quotations and photographs The profiles are culturally inclusive and span a range of biologists from ancient times to the present day The entries on women and minority biologists especially articulate the obstacles that these

biologists overcame in the process of reaching their goals This title is an ideal resource for students and general readers interested in the history of biology or the personal and professional lives of significant biologists People covered include Rachel Louise Carson 1907 1964 Paul Ehrlich 1854 1915 Dian Fossey 1932 1985 Galen c 130 c 201 Alexander von Humboldt 1769 1859 Shibusaburo Kitasato 1852 1931 Severo Ochoa 1905 1993 Linus Carl Pauling 1901 1994 Rosalyn Sussman Yalow 1921 2011 Lap Chee Tsui 1950 present Pamela Silver 1952 present

Pharmaceutical Achievers Mary Ellen Bowden, Amy Beth Crow, Tracy Sullivan, 2003 This biographical collection highlights individuals who made outstanding achievements in the arenas of pharmaceuticals and biotechnology Pharmaceutical Achievers presents chronologically the major directions of pharmaceutical research and in their historical context the breakthroughs in treating various diseases It concludes with a look at tomorrow's medicines This work is particularly useful in the classroom where its accounts of challenges and triumphs may inspire students to consider careers that support pharmaceutical research and development

The Age of Knowledge James Dzisah, Henry Etzkowitz, 2011-10-14 The Age of Knowledge emphasizes that the ongoing transformations of knowledge both within universities and for society more generally must be understood as a reflection of the larger changes in the constitutive social structures within which they are invariably produced translated and reproduced

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

The Cambridge History of Science: Volume 6, The Modern Biological and Earth Sciences David C. Lindberg, Peter J. Bowler, Ronald L. Numbers, Roy Porter, 2003 This book in the highly respected Cambridge History of Science series is devoted to the history of

the life and earth sciences since 1800 It provides comprehensive and authoritative surveys of historical thinking on major developments in these areas of science on the social and cultural milieus in which the knowledge was generated and on the wider impact of the major theoretical and practical innovations The articles are written by acknowledged experts who provide concise accounts of the latest historical thinking coupled with guides to the most important recent literature In addition to histories of traditional sciences the book covers the emergence of newer disciplines such as genetics biochemistry and geophysics The interaction of scientific techniques with their practical applications in areas such as medicine is a major focus of the book as is its coverage of controversial areas such as science and religion and environmentalism

Personal Genome Medicine Michael J. Malinowski, 2023-08-31 In the years following FDA approval of direct to consumer genetic health risk testing millions of people in the United States have sent their DNA to companies to receive personal genetic health risk information without physician or other learned medical professional involvement In *Personal Genome Medicine* Michael J Malinowski examines the ethical legal and social implications of this development Drawing from the past and present of medicine in the U S Malinowski applies law policy public and private sector practices and governing norms to analyze the commercial personal genome sequencing and testing sectors and to assess their impact on the future of U S medicine Written in relatable and accessible language the book also proposes regulatory reforms for government and medical professionals that will enable technological advancements while maintaining personal and public health standards

Chemical Sciences in the 20th Century Carsten Reinhardt, 2008-09-26 Chemistry in the last century was characterized by spectacular growth and advances stimulated by revolutionary theories and experimental breakthroughs Yet despite this rapid development the history of this scientific discipline has achieved only recently the status necessary to understand the effects of chemistry on the scientific and technological culture of the modern world This book addresses the bridging of boundaries between chemistry and the other classical disciplines of science physics and biology as well as the connections of chemistry to mathematics and technology Chemical research is represented as an interconnected patchwork of scientific specialties and this is shown by a mixture of case studies and broader overviews on the history of organic chemistry theoretical chemistry nuclear and cosmochemistry solid state chemistry and biotechnology All of these fields were at the center of the development of twentieth century chemistry and the authors cover crucial topics such as the emergence of new subdisciplines and research fields the science technology relationship and national styles of scientific work This monograph represents a unique treasure trove for general historians and historians of science while also appealing to those interested in the theoretical background and development of modern chemistry

DNA James D. Watson, Andrew Berry, Kevin Davies, 2017-08-22 The definitive insider's history of the genetic revolution significantly updated to reflect the discoveries of the last decade James D Watson the Nobel laureate whose pioneering work helped unlock the mystery of DNA's structure charts the greatest scientific journey of our time from the discovery of the double helix to today's controversies to what the future may hold

Updated to include new findings in gene editing epigenetics agricultural chemistry as well as two entirely new chapters on personal genomics and cancer research This is the most comprehensive and authoritative exploration of DNA s impact practical social and ethical on our society and our world

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