

# MAKING PCR

*A Story of Biotechnology*



PAUL RABINOW

# Making Pcr A Story Of Biotechnology

**Steve Caplan**



## **Making Pcr A Story Of Biotechnology:**

Making Pcr Paul Rabinow, 1997-10-01 Making PCR is the fascinating behind the scenes account of the invention of one of the most significant biotech discoveries in our time the polymerase chain reaction The book contains interviews with the remarkable cast of characters who made PCR including Kary Mullis who received a Nobel Prize for discovering it as well as the team of young scientists 10 halftones 10 line drawings

**Making PCR** Paul Rabinow, 1996-05-15 Skillfully blending narrative description and interviews with all the major players Rabinow here tells the fascinating behind the scenes story of the invention of one of the most significant biotech discoveries of our time PCR the polymerase chain reaction An intriguing look at how science is done Making PCR is excellent reading for researchers and anyone fascinated by the high stakes world of biotechnology

*Intellectual Property and Biotechnology* Matthew Rimmer, 2008-01-01 Dr Rimmer's book is a marvellous introduction to a crucial topic of our time He writes engagingly provocatively and always with good humour A highly technical and complex area of law has been reduced to clear descriptions and searching analysis Truly this is an important book on an essential topic that will help define the ethics of a future that includes nothing less than the future of our species From the foreword by the Hon Justice Michael Kirby AC CMG the High Court of Australia the author has done an excellent job by explaining the subject in an open and accessible manner This book is a timely and very thought provoking analysis of patent law and biotechnology The book is a unique theoretical contribution to the controversial public debate over commercialization of biological inventions there is an extensive bibliography a valuable resource for further reading The book will be of prime interest to lawyers and patent attorneys scientists and researchers business managers and technology transfer specialists Journal of Intellectual Property Rights Rimmer's book is highly recommended for anyone interested in the issues and debate related to biological inventions regardless of which side the reader is on Stefan M Miller Journal of Commercial Biotechnology this book gives an excellent account of the most celebrated biotechnology cases from three continents and for this alone is to be thoroughly recommended David Rogers European Intellectual Property Review Rimmer has put a great deal of thought and effort into this series of chapters For those looking at how to reform direct and develop laws in relation to biotechnology this book is brimming with ideas suggestions and recommendations of what to do next Rebecca Halford Harrison Chartered Institute of Patent Attorneys an excellent introduction to a wide range of legal thinking in an increasingly controversial and relevant area to humankind Sharon Givoni Australian Intellectual Property Law Bulletin Rimmer's new book is a timely and very thought provoking analysis of patent law and biotechnology and asks a very serious question can a 19th century patent system adequately deal with a 21st century industry Kate McDonald Australian Life Scientist This book documents and evaluates the dramatic expansion of intellectual property law to accommodate various forms of biotechnology from micro organisms plants and animals to human genes and stem cells It makes a unique theoretical contribution to the controversial public debate over the commercialization of biological inventions The author also

considers the contradictions between the Supreme Court of Canada rulings in respect of the Harvard oncomouse and genetically modified canola He explores law policy and practice in both Australia and New Zealand in respect to gene patents and non coding DNA This study charts the rebellion against the European Union Biotechnology Directive particularly in respect of Myriad Genetics BRCA1 and BRCA2 patents and stem cell patent applications The book also considers whether patent law will accommodate frontier technologies such as bioinformatics haplotype mapping proteomics pharmacogenomics and nanotechnology Intellectual Property and Biotechnology will be of prime interest to lawyers and patent attorneys scientists and researchers business managers and technology transfer specialists 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 **The Ethics of Biotechnology** Gaymon Bennett, 2022-01-26 The essays collected in this volume provide students of ethics with essential tools for making sense of emerging biotechnical capacities and the turbulent power relations these capacities are bringing into the world Unlike previous reference works in bioethics which focus on specific domains of human activity such as genetic research or biomedicine this volume directs students attention to the underlying cultural and institutional forces that shape how biotechnologists approach the world and teaches students how to weigh the ethical significance of these forces This innovative approach to the ethics of biotechnology detailed in the volume s introduction equips students to track the dynamic interplay of biology digital technology and the high tech economy which is remaking the living world today and the human relation to it *How Breakthroughs Happen* Andrew Hargadon, 2003 Dispelling the myth that innovation is invention revolution this text argues that innovators past present have employed a strategy of technology brokering to source develop exploit new ideas It provides a clear set of recommendations for managing the innovation process in organizations *A Machine to Make a Future* Paul Rabinow, Talia Dan-Cohen, 2013-10-31 A Machine to Make a Future represents a remarkably original look at the present and possible future

of biotechnology research in the wake of the mapping of the human genome The central tenet of Celera Diagnostics the California biotech company whose formative work during 2003 is the focus of the book is that the emergent knowledge about the genome with its profound implications for human health can now be turned into a powerful diagnostic apparatus one that will yield breakthrough diagnostic and therapeutic products and potentially profit Celera's efforts assuming they succeed may fundamentally reshape the fabric of how health and health care are understood practiced and managed Presenting a series of interviews with all of the key players in Celera Diagnostics Paul Rabinow and Talia Dan Cohen open a fascinating window on the complexity of corporate scientific innovation This marks a radical departure from other books on the biotech industry by chronicling the vicissitudes of a project during a finite time period in the words of the actors themselves Ultimately the authors conclude Celera Diagnostics is engaged in a future characterized not by geniuses and their celebrated discoveries but by a largely anonymous and widely distributed profusion of data and results a machine to make a future In their new afterword Rabinow and Dan Cohen revisit Celera Diagnostics as its mighty machine grinds along wondering along with the scientists what constitutes success and what constitutes failure The pathos of the situation turns on how one poses the question as much as how one answers it

**Redesigning Life?** Brian Tokar, 2001-05-04 Genetic engineering technologies are being promoted as keys to a brighter future These writings examine the hidden hazards of the new genetic technologies and reveal the emergence of worldwide resistance to unfettered exploitation

[A Companion to the History of Science](#) Bernard Lightman, 2019-11-12 The Wiley Blackwell Companion to the History of Science is a single volume companion that discusses the history of science as it is done today providing a survey of the debates and issues that dominate current scholarly discussion with contributions from leading international scholars Provides a single volume overview of current scholarship in the history of science edited by one of the leading figures in the field Features forty essays by leading international scholars providing an overview of the key debates and developments in the history of science Reflects the shift towards deeper historical contextualization within the field Helps communicate and integrate perspectives from the history of science with other areas of historical inquiry Includes discussion of non Western themes which are integrated throughout the chapters Divided into four sections based on key analytic categories that reflect new approaches in the field

*Women's Work* Laurel Smith-Doerr, 2004 Women scientists working in small for profit companies are eight times more likely than their university counterparts to head a research lab Why Laurel Smith Doerr reveals that contrary to widely held assumptions strong career opportunities for women and minorities do not depend on the formal policies and long job ladders that large hierarchical bureaucracies provide In fact highly internally linked bio technology firms are far better workplaces for female scientists when compared to university settings or established pharmaceutical companies offering women richer opportunities for career advancement Based on quantitative analyses of more than two thousand life scientists careers and qualitative studies of scientists in eight biotech and university settings Smith Doerr's work shows clearly that the network

form of organization rather than fostering old boy networks provides the organizational flexibility that not only stimulates innovation but also aids women's success

**Knowledge Sharing in Professions** Alexander Styhre, 2016-04-22 No professional is an island Despite their capacity to monopolize and erect entry barriers in terms of either formal credentials or membership of certain organizations professionalism is inextricably bound up with collective accomplishments on a day to day basis and the capacity to share all the resources that constitute the professional domain of expertise Knowledge Sharing in Professions looks at professionalism as a form of systematic and institutionalized knowledge sharing It analyses professionalism through the everyday practices in professional communities and the organizations where they work Three empirical studies of pharmaceutical clinical trials researchers management consultants and architects are presented serving to illustrate the relational nature of these and other professions and how members of professional communities are constantly exchanging data information and know how in their everyday work Alexander Styhre seeks to understand the role of professions and other forms of experts in contemporary society on the basis of complementary perspectives that is to say the communal and collegial nature of professional work This book represents a valuable contribution both to the sociological literature on professions and the business orientated literature on knowledge management and should promote further new research on professionalism

**Law and the Human Body** Rohan Hardcastle, 2007-09-18 Do you own your body Advances in science and the development of genetic databases have added an aura of modern controversy to this long standing and as yet unresolved problem In particular English law governing separated human tissue including organs DNA and cell lines is unsatisfactory Despite the enactment of the Human Tissue Act 2004 UK it remains uncertain what property rights living persons can claim over tissue separated from their bodies The development of clear legal principles is necessary to protect the rights of individuals while also enabling the efficient use of such materials in medical research Part I of Law and the Human Body traces the evolution of English Australian United States and Canadian law in relation to human tissue separated from living persons and dead bodies This includes a comprehensive examination of the Human Tissue Act 2004 UK as well as prominent judicial decisions including *Re Organ Retention Group Litigation* 2005 QB 506 *Colavito v New York Organ Donor Network Inc* 8 NY 3d 43 NY CA 2006 and *Washington University v Catalona* 490 F 3d 667 8th Cir 2007 Analysis demonstrates that although property rights and non proprietary interests in separated human tissue are recognised in limited circumstances no principled basis has been accepted either at common law or by statute for the recognition of these rights and interests Part II of this book develops and defends a principled basis in English law for the creation and legal recognition of property rights and non proprietary interests in separated human tissue Significantly the analysis and principles presented in Law and the Human Body have application across common law and civil law jurisdictions worldwide

*Use of Science and Technology in Business* Hakan sson, Alexandra Waluszewski, Frans Prenekert, Enrico Baraldi, 2009-03-03 Shows the multifaceted and interactive character of the relationship between science and technology on

the one hand and business and innovation on the other This book explores this non linear relationship through a selection of case studies and discusses its implications for science as well as for business

**The Western Medical Tradition** W. F. Bynum,2006-03-20 This book first published in 2006 is an authoritative description of the important changes in Western medicine over the past two centuries

**Science-Based Innovation** A. Styhre,2008-02-27 Knowledge management has become a well known term but science based innovation remains relatively unexploited Bridging the gap between knowledge management theory and studies of science of technology such as in the pharmaceutical industry and biotechnology firms this book provides a timely insight into the innovation of the knowledge economy

**Biobazaar** Janet Hope,2008-01-31 Hope offers the first sustained and systematic inquiry into the application of open source principles to life sciences Traversing disciplinary boundaries she presents an analysis of intellectual property related challenges confronting the biotechnology industry and paints a detailed picture of open source biotechnology as a possible solution

**The Genetic Age** Matthew Cobb,2022-09-01 A TIMES ENVIRONMENT AND SCIENCE BOOK OF THE YEAR 2022 The ideal guide to what is not just a fiendishly complex area of science but also an ethical minefield Mail on Sunday A new gene editing technology invented just seven years ago has turned humanity into gods Enabling us to manipulate the genes in virtually any organism with exquisite precision CRISPR has given scientists a degree of control that was undreamt of even in science fiction But CRISPR is just the latest giant leap in a long journey to master genetics The Genetic Age shows the astonishing world changing potential of the new genetics and the possible threats it poses sifting between fantasy and the reality when it comes to both benefits and dangers By placing each phase of discovery anticipation and fear in the context of over fifty years of attempts to master the natural world Matthew Cobb the Baillie Gifford shortlisted author of The Idea of the Brain weaves the stories of science history and culture to shed new light on our future With the powers now at our disposal it is a future that is almost impossible to imagine but it is one we will create ourselves

**Investigating Interdisciplinary Collaboration** Scott Frickel,Mathieu Albert,Barbara Prainsack,2016-11-25 Interdisciplinarity has become a buzzword in academia as research universities funnel their financial resources toward collaborations between faculty in different disciplines In theory interdisciplinary collaboration breaks down artificial divisions between different departments allowing more innovative and sophisticated research to flourish But does it actually work this way in practice Investigating Interdisciplinary Collaboration puts the common beliefs about such research to the test using empirical data gathered by scholars from the United States Canada and Great Britain The book s contributors critically interrogate the assumptions underlying the fervor for interdisciplinarity Their attentive scholarship reveals how for all its potential benefits interdisciplinary collaboration is neither immune to academia s status hierarchies nor a simple antidote to the alleged shortcomings of disciplinary study Chapter 10 is available Open Access here <https://www.ncbi.nlm.nih.gov/books/NBK395883>

**Giving Bodies Back to Data** Silvia Casini,2021-08-03 An examination of the bodily situated aspects of data visualization work looking at visualization

practices around the development of MRI technology Our bodies are scanned probed imaged sampled and transformed into data by clinicians and technologists In this book Silvia Casini reveals the affective relations and materiality that turn data into image and in so doing gives bodies back to data Opening the black box of MRI technology Casini examines the bodily situated aspects of visualization practices around the development of this technology Reframing existing narratives of biomedical innovation she emphasizes the important but often overlooked roles played by aesthetics affectivity and craft practice in medical visualization Combining history theory laboratory ethnography archival research and collaborative art science Casini retrieves the multiple presences and agencies of bodies in data visualization mapping the traces of scientists body work and embodied imagination She presents an in depth ethnographic study of MRI development at the University of Aberdeen s biomedical physics laboratory from the construction of the first whole body scanner for clinical purposes through the evolution of the FFC MRI Going beyond her original focus on MRI she analyzes a selection of neuroscience or biomedicine inspired interventions by artists in media ranging from sculpture to virtual reality Finally she presents a methodology for designing and carrying out small scale art science projects describing a collaboration that she herself arranged highlighting the relational and aesthetic laden character of data that are the product of craftsmanship and affective labor at the laboratory bench

**Today's Curiosity is Tomorrow's Cure** Steve Caplan, 2021-11-09 Basic curiosity driven biomedical science has delivered many of today s most significant medical advances This book provides clearly explained examples from recent biomedical history and includes convincing arguments for sustaining a robust portfolio of basic research Intended as an engaging read which will delight undergraduate and graduate students as well as scientific researchers it is full throated advocacy of basic science Illustrations and examples include the discoveries of penicillin and insulin and the breakthrough elucidation of the genetic code Providing both compelling rationale in support of basic science and a fascinating look through the history of modern biomedical research this book highlights with stirring examples why basic biomedical research is so important and how so many key advances in medicine are derived from basic research The book also offers a rationale for scientific inquiry and a broader understanding of the history of modern biomedical research missing from today s classrooms Key Features 1 Provides clear explanations of great scientific discoveries 2 Illustrates connections between basic research findings and modern medicine 3 Includes compelling graphics diagrams illustrations 4 Accessible to the general public 5 Offers background for more specialized readers including researchers as well as those with advanced degrees Related Titles Staddon J Scientific Method How Science Works Fails to Work and Pretends to Work ISBN 978 1 1382 9536 0 Helliwell J R Skills for Scientific Life ISBN 978 1 4987 6875 7 MacRitchie F Scientific Research as a Career ISBN 978 1 4398 6965 9

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