

# Public Perceptions of Biotechnology: Another Look

A survey of New Jersey residents calls into question what the public really thinks about genetically engineered products

William K. Hallman

**D**espite the ongoing debate among experts over potential consumer acceptance of biotechnology, little published research has detailed how U.S. consumers actually feel about biotechnology or its products. While there has been a great deal of proprietary research into consumer acceptance of particular biotechnology products over the past decade, only two empirical studies of U.S. consumers' attitudes concerning biotechnology have been readily available to academic researchers.<sup>1,2</sup>

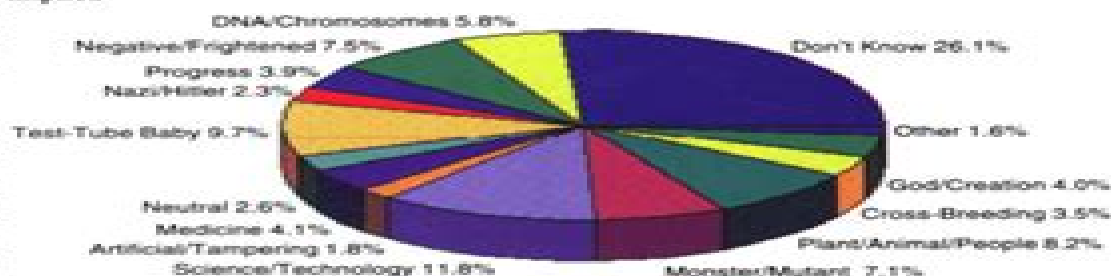
To better understand public perceptions of biotechnology, and potential acceptance of genetically engineered agricultural products, a telephone survey of New Jersey residents was commissioned by Rutgers University (New Brunswick, NJ) in May 1993.<sup>3,4</sup> New Jersey is a unique test bed for this type of study: Not only is it a center for agricultural biotechnology research, but it also is home to a number of international pharmaceutical companies. This article presents a summary of selected data obtained from the survey and explores the implications for the continued development of biotechnology products. These results represent perhaps the most recent attempt to assess public perceptions of biotechnology in the U.S.

## First Impressions

Overall, the survey demonstrated that most citizens seem to be in the initial stages of making up their minds about this new technology. Throughout this survey most respondents were quite introspective, carefully considering their answers, as if they were really thinking about the issues for the first time. This is supported by the fact that 80% of New Jersey's citizens believe that they have at least an adequate understanding of science and technology, yet more than half of those interviewed (52%) said that they had heard little or nothing about genetic engineering. Not surprisingly, respondents who said that they belonged to scientific, environmental, or consumer groups, and those who work as scientists or engineers were more likely

to have heard or read about genetic engineering than other respondents. However, while their professions are likely to be profoundly affected by advances in biotechnology, medical professionals and food growers were no more likely to have heard of genetic engineering than other groups of respondents.

When asked to report the first thought or image they associated with the words "genetic engineering," it was again evident that many people have not given biotechnology much thought. More than one-quarter of those interviewed (26%) were unable to respond, even after additional prompting (see Figure 1). Equally significant is that nearly 20% of those interviewed had specific negative first thoughts or images about genetic engineering, responding with words like: "frightened," "escaping virus," "disease," "Nazi/Hitler," "mad scientist," and "monsters." An additional 10% referred to images of test-tube babies, embryos, cloning, and the book *Brave New World*.



But not all of the public's first thoughts or images concerning genetic engineering were negative. Over one-third (36%) of the responses were related to science and technology or general thoughts about plants, animals, and people. Moreover, about 8% of the responses were very positive references to medical advances, progress, and safety.

## Products, Not Process

Approval or opposition to biotechnology products does not seem to be based on the process of genetic engineering. Rather, it seems to be related to the type of product produced by the process. For example, a majority (61%) of New Jersey residents say that they approve of using genetic engineering

**FIGURE 1.** First thoughts or images when thinking about genetic engineering.

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# Public Perceptions Of Biotechnology

**Derek G. Springham, Vivian  
Moses, Ronald E. Cape**



## **Public Perceptions Of Biotechnology:**

**Public Perceptions of Biotechnology** Waldemar Klassen, 1987 *New Developments in Biotechnology: Public perceptions of biotechnology*, 1987 **New Developments in Biotechnology: Public perceptions of biotechnology**, 1987 **Biotechnology - The Science and the Business** Derek G. Springham, Vivian Moses, Ronald E. Cape, 2020-08-18 Biotechnology has not stood still since 1991 when the first edition of *Biotechnology The Science and the Business* was published. It was the first book to treat the science and business of technology as an integrated subject and was well received by both students and business professionals. All chapters in this second edition have been updated and revised and some new chapters have been introduced including one on the use of molecular genetic techniques in forensic science. Experts in the field discuss a range of biotechnologies including pesticides, the flavor and fragrance industry, oil production, fermentation and protein engineering. On the business side, subjects include managing, financing and regulation of biotechnology. Some knowledge of the science behind the technologies is assumed, as well as a layperson's view of buying and selling. As with the first edition, it is expected that this book will be of interest to biotechnology undergraduates, postgraduates and those working in the industry, along with students of business, economics, intellectual property, law and communications. **Biotechnology in the Public Sphere** Martin W. Bauer, John Durant, George Gaskell, 1998. A comprehensive assessment of European public opinion and biotechnology. It brings together comparative research on policy making, media coverage and public perceptions. This book is the major output from a three-year research initiative undertaken by an international multidisciplinary team of social scientists. Following an introductory conceptualisation of biotechnology in the public sphere, Part Two brings together information on the policy activity, media coverage and public perceptions of biotechnology in European countries. Part Three is a detailed analysis of a major European survey of public perceptions. Part Four brings together the three elements of the research and provides a synthetic overview of the development of public perceptions of biotechnology in Europe. *Background Paper*, 1987 *Public Perceptions of Biotechnology*, 1987 **Public Perceptions of Biotechnology and Acceptance of Genetically Modified Food** Ferdaus Hossain, Rutgers University. Food Policy Institute, 2002 *Modern Biotechnology In Malaysia (UM Press)* Latifah Amin, 2013-09-01. Modern biotechnology has been identified by the Malaysian government as a key economic engine that could enhance the nation's prosperity and well-being. However, there have been many controversies on the acceptance of modern biotechnology products worldwide. How about Malaysians? Are they aware and have sufficient knowledge of modern biotechnology? What are their perspectives on modern biotechnology and products? What are the factors that influence their support towards modern biotechnology products? The target of this book is all stakeholders of biotechnology: the scientists, academics, policy makers, industries, media, NGOs and students, with the hope that they will be able to understand the societal construct of modern biotechnology, the general public and religious experts so that they will be able to have a glimpse of what modern biotechnology is about and its related issues. *Mad Cows and Mother's*

*Milk, Second Edition* William Leiss, 2004-11-25 Communicating the nature and consequences of environmental and health risks is still one of the most problematic areas of public policy in Western democracies *Mad Cows and Mother's Milk* outlines the crucial role of risk management in dealing with public controversies and analyses risk communication practice and malpractice to provide a set of lessons for risk managers and communicators This second edition adds new case studies on mad cow disease in North America climate change and genetics technologies The first of the new case studies brings the story of the Bovine Spongiform Encephalopathy BSE outbreak in the United Kingdom in the 1980s up to date Mad cow disease is still being discovered in UK herds and cases of mad cow disease have been found in twenty countries across the European continent and as far away as Japan with devastating consequences for the food industry BSE has now been discovered on the North American continent in two cows born in Canada The original cause of these two new cases is almost certainly importation of infected cattle cattle feed or both from Britain Canadian government regulators and those in the cattle industry have failed to correctly assess the risks of the disease in the Canadian herd take the precautionary measures needed to prevent the spread of disease and communicate risks and precautionary measures to the public The second new study deals with global warming Not only is every aspect of this risk debate both contentious and difficult for the public to understand but the potential consequences of the risks extend all the way to global catastrophe for human civilization A new chapter outlines the many dimensions of risk debate in the context of the need for effective and sustained dialogue by an informed public The last new case study provides an introduction to genomic science which is placed in the context of both the health benefits expected from genetic manipulation and some of the risk factors associated with it One example is gene therapy which can be used to eliminate inherited genetic diseases i e cystic fibrosis enhance human traits i e athletic performance and perhaps double life spans Gene technologies are relevant to some of the most fundamental human values This new chapter suggests that we must think about the range of new risks introduced by these technologies as well as the potential benefits and that we should do this collective thinking soon since given the furious pace of genomics discoveries the possibilities will be with us sooner than we imagine All of the case studies emphasize the need for effective communication about risks to allow effective dialogue by informed publics on health and environmental risks Bioprocessing Safety

Warren C. Hyer, 1990 **Genetic Modification in the Food Industry** Susan Harlander, Sibel Roller, 2012-12-06 Although the true economic impact of genetic modifications is yet to be realized the potential of this new technology to benefit the food processing industry and to improve food quality is enormous Specific genetically modified whole foods and food ingredients that have recently become available or are about to become available are described and discussed in relation to their technical performance and consumer acceptance The regulatory ethical and communication issues in food biotechnology are also reviewed As the products of gene technology come on stream decisions need to be made as to whether or not to use them Yet many food industry professionals have little or no background in biotechnology and have a limited concept of

possible applications in foods Therefore this book aims to foster a greater understanding of the benefits and potential pitfalls of this new technology *Emerging Trends in Environmental Biotechnology* Sukanta Mondal,Shivesh Pratap

Singh,Yogendra Kumar Lahir,2022-07-04 The environment is an all encompassing component of the ecosystem of Blue planet the earth made up of the hydrosphere atmosphere and lithosphere These three spheres have biotic and abiotic components which exhibit ecological homeostasis that provides the most appropriate survival chances for the members of biotic component and geochemical balance with abiotic components This ecosystem is subjected to relatively harsh conditions mostly created by the disastrous activities due to natural calamities and intentional and or accidental anthropogenic activities Biotechnology has become a potential tool to dissipate such environmental impacts because of the advancement it has undergone recently *Emerging Trends in Environmental Biotechnology* is an outstanding collection of current research that integrates basic and advanced concepts of biotechnology such as genomics proteomics bioinformatics sequencing and imaging processes to improvise and protect the environment This book is particularly attractive for scientists researchers students educators and professionals in environmental science agriculture veterinary and biotechnology science The book will enable them to solve the problems about sustainable development with the help of current innovative biotechnologies such as recombinant DNA technology and genetic engineering which have tremendous potential for impacting global food security environmental health human and animal health and overall livelihood of mankind Features Presents easy to read chapters Information is presented in a very accessible and logical format Identifies and explores biotechnological approaches for environmental protection Encompasses biodegradation of hazardous contaminants biotechnology in waste management nanotechnology and issues in environmental biotechnology research **The New Genetics and The Public's Health**

Robin Bunton,Alan Petersen,2002-09-11 The rapid advancement of genetic science fuelled by the Human Genome Project and other related initiatives promises a new kind of public health practice based on the pre detection of disease according to calculations of genetic risk This book by two well known sociologists explores the implications of the new genetics for public health as a body of knowledge and a domain of practice assesses the impact of new genetic information and technologies on conceptions of health illness embodiment self and citizenship critically examines the complex discourses surrounding human genetics and public health *The New Genetics and The Public's Health* addresses the emerging social and political consequences of the new genetics and provides a stimulating critique of current research and practice in public health

Biotech Breakthrough: Unlocking the Future Pasquale De Marco, In this comprehensive and thought provoking book we delve into the captivating realm of biotechnology where the boundaries of science technology and nature intertwine Biotechnology empowers us to harness the power of living organisms to address some of the world's most pressing challenges from healthcare to environmental sustainability This book provides a comprehensive overview of the latest advancements in biotechnology including gene editing tools like CRISPR Cas9 synthetic biology personalized medicine and

biomanufacturing We explore the potential of these technologies to revolutionize the way we diagnose and treat diseases develop sustainable materials and produce food and fuel Beyond the technical aspects we delve into the ethical societal and global implications of biotechnology We examine the potential benefits and risks of gene editing the challenges of ensuring equitable access to these technologies and the role of international collaboration in shaping the future of biotechnology Throughout the book we highlight real world examples and case studies to illustrate the practical applications of biotechnology We explore how genetic engineering is being used to develop new cancer treatments how synthetic biology is creating biodegradable plastics and how biomanufacturing is reducing our reliance on fossil fuels We also address the crucial role of public perception and education in shaping the future of biotechnology By fostering open and informed dialogue we can build trust in this rapidly evolving field and ensure that its benefits are shared equitably This book is an invaluable resource for anyone interested in understanding the transformative power of biotechnology Whether you are a student researcher industry professional or simply curious about the latest scientific advancements this book will provide you with a comprehensive and engaging exploration of this fascinating field If you like this book write a review **Eating Agendas**

Donna Maurer, Jeffery Sobal, The international group of sociological and nutritional scientists in this volume represent the research that has been conducted on the social problematics of food and nutrition in such areas as food safety biotechnology food stamp programs obesity anorexia nervosa and vegetarianism The broad range of topics addressed and the case studies examined make this book suitable as a course related text both in foodways and cultural aspects of nutrition and as a new departure in social problems courses **Paradoxes in Food Chains and Networks** J.H. Trienekens, S.W.F.

Omta, 2023-08-28 This publication contains the proceedings of the 5th international conference on chain and network management in agribusiness and the food industry Papers will focus on the paradoxes caused by conflicting interests in the fields of economics and ethics technology and environment legislation and internationalisation etc The modern consumer demands high quality products in broad assortments throughout the year and for competitive prices Society imposes constraints on companies in order to economize on the use of resources ensure animal friendly and safe production and restrict pollution Together with technological developments and increased international competition these demands have changed the production trade and distribution of food products beyond recognition Demand is no longer confined to local or regional supply The food industry is now swiftly becoming an interconnected system with a large variety of complex relationships This is changing the way food is brought to the market Currently even fresh produce shipped from halfway around the world can be offered at competitive prices These developments are accompanied by national and international regulations and legislation in the area of food quality and safety In response to these changes business strategies must now focus not only on traditional economical and technological interests but also on topical issues such as the safety and healthfulness of food products animal friendliness the environment etc To effectively address paradoxical demands facing

businesses many problems and opportunities must be approached from a multi disciplinary perspective and trade offs must be made between different aspects of production trade and the distribution of food      OUR FRAGILE WORLD: Challenges and Opportunities for Sustainable Development - Volume II M. K. Tolba, 2001-08-23 This publication Our Fragile World Challenges and Opportunities for Sustainable Development presents perspectives of several important subjects that are covered in greater detail and depth in the Encyclopedia of Life Support Systems EOLSS The contributions to the two volumes provide an integrated presentation of knowledge and worldviews related to the state of Earth's natural resources social resources institutional resources and economic and financial resources They present the vision and thinking of over 200 authors in support of efforts to solve the complex problems connected with sustainable development and to secure perennial life support on The Blue Planet These contributions are holistic informative forward looking and will be of interest to a broad readership This volume presents contributions with focus on the Economic and Institutional Dimensions of Sustainable Development in two sections KNOWLEDGE TECHNOLOGY AND MANAGEMENT Knowledge Technology and Management Economics Finance and trade POLICY AND INSTITUTIONAL IMPLICATIONS FOR SUSTAINABLE DEVELOPMENT Policy Issues Institutional implications Regional Analysis      *Integrating and Articulating Environments: A Challenge for Northern and Southern Europe* F. Adaman, F. Goksen, J. Grolin, M. O'Brien, O. Seippel, E.U. Zenginobuz, 2015-03-14 A critical comparative exploration of the framing of environmental problems in Northern and Southern Europe The book addresses theoretical and empirical questions about environmental attitudes and behaviours politics and protest cultures and contexts

**The Right to Know and the Right Not to Know** Ruth Chadwick, Mairi Levitt, Darren Shickle, 2014-09-04 The privacy concerns discussed in the 1990s in relation to the New Genetics failed to anticipate the relevant issues for individuals families geneticists and society Consumers for example can now buy their personal genetic information and share it online The challenges facing genetic privacy have evolved as new biotechnologies have developed and personal privacy is increasingly challenged by the irrepressible flow of electronic data between the personal and public spheres and by surveillance for terrorism and security risks This book considers the right to know and the right not to know about your own and others genomes It discusses new privacy concerns and developments in ethical thinking with the greater emphasis on solidarity and equity The multidisciplinary approach covers current topics such as biobanks and forensic databases DIY testing group rights and accountability the food we eat and the role of the press and the new digital media

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**Table of Contents Public Perceptions Of Biotechnology**

1. Understanding the eBook Public Perceptions Of Biotechnology
  - The Rise of Digital Reading Public Perceptions Of Biotechnology
  - Advantages of eBooks Over Traditional Books
2. Identifying Public Perceptions Of Biotechnology
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Public Perceptions Of Biotechnology
  - User-Friendly Interface
4. Exploring eBook Recommendations from Public Perceptions Of Biotechnology
  - Personalized Recommendations
  - Public Perceptions Of Biotechnology User Reviews and Ratings
  - Public Perceptions Of Biotechnology and Bestseller Lists
5. Accessing Public Perceptions Of Biotechnology Free and Paid eBooks
  - Public Perceptions Of Biotechnology Public Domain eBooks
  - Public Perceptions Of Biotechnology eBook Subscription Services
  - Public Perceptions Of Biotechnology Budget-Friendly Options
6. Navigating Public Perceptions Of Biotechnology eBook Formats
  - ePub, PDF, MOBI, and More
  - Public Perceptions Of Biotechnology Compatibility with Devices
  - Public Perceptions Of Biotechnology Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Public Perceptions Of Biotechnology
  - Highlighting and Note-Taking Public Perceptions Of Biotechnology
  - Interactive Elements Public Perceptions Of Biotechnology
8. Staying Engaged with Public Perceptions Of Biotechnology

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Public Perceptions Of Biotechnology
- 9. Balancing eBooks and Physical Books Public Perceptions Of Biotechnology
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Public Perceptions Of Biotechnology
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Public Perceptions Of Biotechnology
  - Setting Reading Goals Public Perceptions Of Biotechnology
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Public Perceptions Of Biotechnology
  - Fact-Checking eBook Content of Public Perceptions Of Biotechnology
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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