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Genetic Engineering

Biopunk Dystopias' contends that we find ourselves at a historical nexus, defined by the rise of biology as the driving force of scientific progress, a strongly grown mainstream attention given to genetic engineering in the wake of the Human Genome Project (1990-2003), the changing sociological view of

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a liquid modern society, and shifting discourses on the posthuman, including a critical posthumanism that decenters the privileged subject of humanism. The book argues that this historical nexus produces a specific cultural formation in the form of "biopunk", a subgenre evolved from the cyberpunk of the 1980s. The analysis deals with dystopian science fiction artifacts of different media from the year 2000 onwards that project a posthuman intervention into contemporary socio-political discourse based in liquid modernity in the cultural formation of biopunk. Biopunk makes use of current posthumanist conceptions in order to criticize contemporary reality as already dystopian, warning that a future will only get worse, and that society needs to reverse its path, or else destroy all life on this planet. As Rosi Braidotti argues, "there is a posthuman agreement that contemporary science and biotechnologies affect the very fibre and structure of the living and have altered dramatically our understanding of what counts as the basic frame of reference for the human today" (40). The proposed book analyzes this alteration as directors, creators, authors, and artists from the field of science fiction extrapolate it from current trends.

Evolving Ourselves

An exploration of the far-reaching scientific and social changes made possible by advances in molecular biotechnology.

Science in Society 53

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A biologist and a moral philosopher consider the positive potential and the possible negative consequences of genetic engineering, outlining the science surrounding the technology while discussing moral and ethical considerations. Reprint.

Genetic Medicine

"Grappling with many of the themes Philip K. Dick is best known for--identity, altered reality, drug use, and dystopias--Flow My Tears, the Policeman Said is both a rollicking chase story and a meditation on reality. Jason Taverner--talk show host and man-about-town--wakes one day to find that no one knows who he is. In a society where lack of identification is a crime, Taverner must evade the secret police while trying to unravel the mystery of why no one remembers him"--

Brief Answers to the Big Questions

"Futurist Juan Enriquez and scientist Steve Gullans conduct a sweeping tour of how humans are changing the course of evolution for all species--sometimes intentionally, sometimes not. For example: What if life forms are limited only by the bounds of our imagination? Are designer babies and pets, de-extinction, even entirely newspecies fair game?; As humans, animals, and plants become ever more resistant to disease and aging, what will become the leading causes of death?; Man-machine interfaces may allow humans to live much longer. What will happen when we transfer parts of our 'selves' into

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clones, into stored cells and machines? Though these harbingers of change are deeply unsettling, the authors argue we are also in an epoch of tremendous opportunity. Future humans, perhaps a more diverse, resilient, gentler, and intelligent species, may become better caretakers of the planet--but only if we make the right choices now."--Provided by publisher.

Genetic Engineering

Biomolecular researcher Victor Stein creates a son through the surrogacy process, and while his superior being develops fantastically well for a time things soon begin to change horribly

Redesigning Humans

Transhumanists advocate for the development and distribution of technologies that will enhance human intellectual, physical, and psychological capacities, even eliminate aging. What if the dystopian futures and transhumanist utopias found in the pages of science journals, Margaret Atwood novels, films like *Gattaca*, and television shows like *Dark Angel* are realized? What kind of world would humans have created? Maxwell J. Mehlman considers the promises and perils of using genetic engineering in an effort to direct the future course of human evolution. He addresses scientific and ethical issues without choosing sides in the dispute between transhumanists and their challengers. However, *Transhumanist Dreams and Dystopian Nightmares* reveals that radical forms of genetic engineering could become a

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reality much sooner than many people think, and that we need to encourage risk-management efforts. Whether scientists are dubious or optimistic about the prospects for directed evolution, they tend to agree on two things. First, however long it takes to perfect the necessary technology, it is inevitable that humans will attempt to control their evolutionary future, and second, in the process of learning how to direct evolution, we are bound to make mistakes. Our responsibility is to learn how to balance innovation with caution.

Improving Nature?

' Genetically modified organisms (GMOs) including plants and the foods made from them, are a hot topic of debate today, but soon related technology could go much further and literally change what it means to be human. Scientists are on the verge of being able to create people who are GMOs. Should they do it? Could we become a healthier and "better" species or might eugenics go viral leading to a real, new world of genetic dystopia? *GMO Sapiens* tackles such questions by taking a fresh look at the cutting-edge biotech discoveries that have made genetically modified people possible. Bioengineering, genomics, synthetic biology, and stem cells are changing sci-fi into reality before our eyes. This book will capture your imagination with its clear, approachable writing style. It will draw you into the fascinating discussion of the life-changing science of human genetic modification. Contents: An Introduction to Playing God The Birth and Explosive Growth of GMOs Human

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CloningBuild-a-Baby Better via GeneticsDIY Guide to Creating GMO SapiensEugenics and TranshumanismCultural Views on Human Genetic ModificationGMO Sapiens Today and Tomorrow
Readership: Undergraduate biology majors, graduate biology majors, non-experts interested in GMOs, biologists and teenagers interested in cloning and human genetic modification. Key Features:Books on this hot new topic of creating GMO people are rare, tend to be out-of-date, or have narrow topic rangesThe goal of this book is to educate and entertain an educated lay audience about human genetic modificationKeywords:GMO;Genetically Modified Organism;GMO Sapien;Cloning;Genomics;Designer Babies;Mitochondrial Transfer;Stem Cells;Infertility
"What I find troubling, exciting but scary, is that I find myself agreeing with an undertone, I do not support human germline genetic modification but with all the new information and perspectives available to me I have found myself questioning my own views and will be watching any developments with a fascinated interest I would rather not admit to." The NODE '

The Shattered Self

Leading scientists from different countries around the world contributed valuable essays on the basic applications and safety, as well as the ethical and moral considerations, of the powerful genetic engineering tools now available for modifying the molecules, pathways, and phenotypes of species of agricultural, industrial and even medical importance.

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After three decades of perfecting such tools, we now see a refined technology, surprisingly unexpected applications, and matured guidelines to avoid unintentional damage to our and other species, as well as the environment, while trying to contribute to solve the biological, medical and technical challenges of society and industry. Chapters on thermo-stabilization of luciferase, engineering of the phenylpropanoid pathway in a species of high demand for the paper industry, more efficient regeneration of transgenic soybean, viral resistant plants, and a novel approach for rapidly screening properties of newly discovered animal growth hormones, illustrate the state-of-the-art science and technology of genetic engineering, but also serve to raise public awareness of the pros and cons that this young scientific discipline has to offer to mankind.

Biopunk Dystopias Genetic Engineering, Society and Science Fiction

Of crucial strategic importance to both the British and the Continental Army, Staten Island was, for a good part of the American Revolution, a bastion of Loyalist support. With its military and political significance, Staten Island provides rich terrain for Phillip Papas's illuminating case study of the local dimensions of the Revolutionary War. Papas traces Staten Island's political sympathies not to strong ties with Britain, but instead to local conditions that favored the status quo instead of revolutionary change. With a thriving agricultural economy, stable political structure, and strong allegiance to the Anglican Church, on the eve

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of war it was in Staten Island's self-interest to throw its support behind the British, in order to maintain its favorable economic, social, and political climate. Over the course of the conflict, continual occupation and attack by invading armies deeply eroded Staten Island's natural and other resources, and these pressures, combined with general war weariness, created fissures among the residents of "that ever loyal island," with Loyalist neighbors fighting against Patriot neighbors in a civil war. Papas's thoughtful study reminds us that the Revolution was both a civil war and a war for independence—a duality that is best viewed from a local perspective.

Genetic Engineering

A New Age novel on a near-perfect world where violence is unknown, the result of genetic changes. But as the heroine discovers, the price is personal freedom. Not every woman can have a baby.

Terrain

"This book examines the social and political implications of the intimate involvement of genetic engineering science with big corporate business, and it points to serious hazards that are inherent in the technology but are largely ignored by practitioners and regulators alike." "The author calls for a halt to commercialisation and for an independent public enquiry into the hazards involved, taking into account the most comprehensive scientific findings as well as the socio-economic and ethical implications."--BOOK

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From Naked Ape to Superspecies

The book is part of the Life Files series, which explores a wide range of social issues and is built around a series of key questions that focus attention on the critical aspects of the topic. Case studies are included where appropriate, and both sides of the issue are presented. The title looks at the world of food, diet and disease, eating disorders, farming, food production, and biotechnology. It examines the differences between diets in the East and West and between developed and developing countries.

Unraveling AIDS

'It's all in the genes'. Is this true, and if so, what is all in the genes? *Genes: A Philosophical Inquiry* is a crystal clear and highly informative guide to a debate none of us can afford to ignore. Beginning with a much-needed overview of the relationship between science and technology, Gordon Graham lucidly explains and assesses the most important and controversial aspects of the genes debate: Darwinian theory and its critics, the idea of the 'selfish' gene, evolutionary psychology, memes, genetic screening and modification, including the risks of cloning and 'designer' babies. He considers areas often left out of the genes debate, such as the environmental risks of genetic engineering and how we should think about genes in the wider context of debates on science,

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knowledge and religion. Gordon Graham asks whether genetic engineering might be introducing God back into the debate and whether the risks of a brave new genetic world outweigh the potential benefits. Essential reading for anyone interested in science, technology, and philosophy, *Genes: A Philosophical Inquiry* is ideal for those wanting to find out more about the ethical implications of genetics and the future of biotechnology.

Mount Dragon

In a world where the slightest edge can mean the difference between success and failure, Leisha Camden is beautiful, extraordinarily intelligent and one of an ever-growing number of human beings who have been genetically modified to never require sleep. Once considered interesting anomalies, now Leisha and the other "Sleepless" are outcasts -- victims of blind hatred, political repression, and shocking mob violence meant to drive them from human society and, ultimately, from Earth itself. But Leisha Camden has chosen to remain behind in a world that envies and fears her "gift" -- a world marked for destruction in a devastating conspiracy of freedom and revenge.

Beggars in Spain

Forget worries about cloning people. In the future, technological advances will bring far more meaningful and controversial changes to our offspring. As scientists rapidly improve their ability to identify,

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screen and manipulate genes, people will want to protect their future children from diseases, help them live longer and even influence their looks and their abilities. Stock, an expert on the implications of recent advances in reproductive biology, clearly shows that neither governments, nor religious groups will be able to stop the coming trend of choosing an embryo's genes, and that there is little point in even trying.

Transhumanist Dreams and Dystopian Nightmares

A complete overview of genetic engineering, including important background information to help readers understand this important and often controversial scientific topic.

The Information Society

In Genetic Medicine: A Logic of Disease, Barton Childs demonstrates that knowledge of the ways both genes and environment contribute to disease provides a rational basis for medical thinking. This "genetic" medicine, he explains, should help the physician use the results of laboratory tests to perceive the uniqueness of the patient as well as that of the family and the cultural conditions in which the patient's condition arose. Childs thus provides a conceptual framework within which to teach and practice a humane medicine. -- James E. Bowman

Why We Sleep

Genetic Engineering

BY THE WINNER OF THE 2020 NOBEL PRIZE IN CHEMISTRY Finalist for the Los Angeles Times Book Prize “The future is in our hands as never before, and this book explains the stakes like no other.” — George Lucas “Required reading for every concerned citizen.” — New York Review of Books Not since the atomic bomb has a technology so alarmed its inventors that they warned the world about its use. That is, until 2015, when biologist Jennifer Doudna called for a worldwide moratorium on the use of the gene-editing tool CRISPR—a revolutionary new technology that she helped create—to make heritable changes in human embryos. The cheapest, simplest, most effective way of manipulating DNA ever known, CRISPR may well give us the cure to HIV, genetic diseases, and some cancers. Yet even the tiniest changes to DNA could have myriad, unforeseeable consequences, to say nothing of the ethical and societal repercussions of intentionally mutating embryos to create “better” humans. Writing with fellow researcher Sam Sternberg, Doudna—who has since won the Nobel Prize for her CRISPR research—shares the thrilling story of her discovery and describes the enormous responsibility that comes with the power to rewrite the code of life. “An invaluable account . . . We owe Doudna several times over.” — Guardian

The Biotechnology Debate

This book grounds deliberative democratic theory in a

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more refined understanding of deliberative practice, in particular when dealing with intractable moral disagreement regarding novel technologies. While there is an ongoing, vibrant debate about the theoretical merits of deliberative democracy on the one hand, and more recently, empirical studies of specific deliberative exercises have been carried out, these two discussions fail to speak to one another. Debates about animal and plant biotechnology are examined as a paradigmatic case for intractable disagreement in today's pluralistic societies. This examination reveals that the disagreements in this debate are multi-faceted and multi-dimensional and can often be traced to fundamental disagreements about values or worldviews. "One of the acute insights to emerge from this examination is that deliberation can serve different purposes vis-à-vis different types of problem. In the case of deeply unstructured problems, like the modern biotechnology debate, the aim of inclusion is more appropriate than the aim of consensus. This book highlights the importance of political culture and broader institutional settings in shaping the capacity and propensity of citizens to engage in deliberation and the degree to which governments are prepared to relinquish authority to deliberative mini-publics." Robyn Eckersley, University of Melbourne, Australia

Living with the Fluid Genome

"Sleep is one of the most important but least understood aspects of our life, wellness, and longevity
An explosion of scientific discoveries in the last

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twenty years has shed new light on this fundamental aspect of our lives. Now neuroscientist and sleep expert Matthew Walker gives us a new understanding of the vital importance of sleep and dreaming"--Amazon.com.

Genetic Engineering

This highly unusual book began as a serious inquiry into Schrödinger's question, "What is life?", and as a celebration of life itself. It takes the reader on a voyage of discovery through many areas of contemporary physics, from non-equilibrium thermodynamics and quantum optics to liquid crystals and fractals, all necessary for illuminating the problem of life. In the process, the reader is treated to a rare and exquisite view of the organism, gaining novel insights not only into the physics, but also into "the poetry and meaning of being alive." This much-enlarged third edition includes new findings on the central role of biological water in organizing living processes; it also completes the author's novel theory of the organism and its applications in ecology, physiology and brain science.

Genes: A Philosophical Inquiry

'[A]n excellent, brisk guide to what is likely to happen as opposed to the fantastically remote.' - Los Angeles Review of Books In 2018 the world woke up to gene editing with a storm of controversy over twin girls born in China with genetic changes deliberately introduced by scientists - changes they will pass on to

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their own offspring. Genetic modification (GM) has been with us for 45 years now, but the new system known as CRISPR or gene editing can manipulate the genes of almost any organism with a degree of precision, ease and speed that we could only dream of ten years ago. But is it ethical to change the genetic material of organisms in a way that might be passed on to future generations? If a person is suffering from a lethal genetic disease, is it unethical to deny them this option? Who controls the application of this technology, when it makes 'biohacking' - perhaps of one's own genome - a real possibility? Nessa Carey's book is a thrilling and timely snapshot of a cutting-edge technology that will radically alter our futures and the way we prevent disease. 'A focused snapshot of a brave new world.' - Nature 'A brisk, accessible primer on the fast-moving field, a clear-eyed look at a technology that is already driving major scientific advances - and raising complex ethical questions.' - Emily Anthes, Undark

Genetic Engineering

In this issue: From the Editors - Dispelling Nuclear Myths French Nuclear Myths Exposed French Nuclear Power Not Safe The True Costs of French Nuclear Power Fluid Genome Dynamics How Food Affects Genes Mismatch of RNA to DNA Widespread New Economy "Shut Down Wall Street!" New Economy Now Living, Green & Circular Letters to the Editor Genetic Determinism Unravels Mystery of Missing Heritability Solved? No Genes for Intelligence How to Increase the Brain Power & Health of a Nation Freeing

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the World from GMOsUSDA Scientist Reveals All. Glyphosate Hazards to Crops, Soils, Animals, and ConsumersMonsanto Defeated by Roundup Resistant WeedsPesticide Illnesses & GM Soybeans Ban on Aerial Spraying Demanded in ArgentinaBt Crops Failures & Hazards Technology WatchSuper-rice without GM, China's Dream Comes True 1000 Kg per Mu in 10 YearsBiogas Plant for Smallholder Farmers in Ethiopia Showcased by Award-Winning Team for Sustainable DevelopmentPlant Immune System Spawns New Biopesticides

Homo Deus

Stephen Hawking was recognized as one of the greatest minds of our time and a figure of inspiration after defying his ALS diagnosis at age twenty-one. He is known for both his breakthroughs in theoretical physics as well as his ability to make complex concepts accessible for all, and was beloved for his mischievous sense of humor. At the time of his death, Hawking was working on a final project: a book compiling his answers to the "big" questions that he was so often posed--questions that ranged beyond his academic field. Within these pages, he provides his personal views on our biggest challenges as a human race, and where we, as a planet, are heading next. Each section will be introduced by a leading thinker offering his or her own insight into Professor Hawking's contribution to our understanding. The book will also feature a foreword from Academy Award winning actor Eddie Redmayne, who portrayed Hawking in the film *The Theory of Everything*, and an

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afterword by Hawking's daughter, Lucy Hawking, as well as personal photographs and additional archival material.

Genetic Engineering

What are we to make of the information society? Many prominent theorists have argued it to be the most profound and comprehensive transformation of economy, culture and politics since the rise of the industrial way of life in the 18th century. Some saw its arrival in a positive light, where the dreams of democracy, of 'connectivity' and 'efficiency' constituted a break with the old ways. But other thinkers viewed it more in terms of the recurrent nightmare of capitalism, where the processes of exploitation, commodification and alienation are given much freer rein than ever before. In this book Robert Hassan, a prominent theorist in new media and its effects, analyses and critically appraises these positions and forms them into a coherent narrative to illuminate the phenomenon. Surveying the works of major information society theorists from Daniel Bell to Nicholas Negroponte, and from Vincent Mosco to Manuel Castells, *The Information Society* is an invaluable resource for understanding the nature of the information society—as well as the meta-processes of neoliberal globalisation and the revolution in information technologies that made it possible.

A Crack in Creation

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Presents an overview of genetic engineering, detailing its history, its techniques, and its controversial application in the cloning of animals, modification of foods, genome mapping, DNA profiling, and treatment of disease.

Artificial Parts, Practical Lives

What's it like to see your friend transformed into a raven before your very eyes, and to know it's your turn next? How does it feel to morph into a manta ray or slide into the body of a snake? This is what happens to Miranda, Semi and Arnie, three friends who are the sole survivors of a plane crash. They find themselves on a tropical island of azure waters and white sands. But beyond the palm-fringed beaches lies the hospital run by the sinister Dr Franklin, and the three teenagers are about to become his next patients. Perfect candidates for his experiments in genetic engineering. . . A horrifying, fascinating story that is Ann Halam's most unusual and challenging novel so far.

Planet Dreams

Find out why the whole biotech enterprise, from GM crops and gene drugs to human cloning, is a phenomenal waste of public finance and scientific imagination, and, most importantly, what it means to be living with the fluid genome. From the author of the international bestseller, *Genetic Engineering Dream or Nightmare? Turning the Tide on the Brave New World of Bad Science and Big Business*, 1998,

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1999. - A personal account of one scientist's struggle against a corrupted scientific establishment bent on promoting genetic modification (GM). - A dossier of scientific evidence of the most serious GM hazards - An exposé of the degenerate research programme of mainstream biology - A death-blow to genetic determinism - A refreshing antidote to the Darwin industry

Flow My Tears, the Policeman Said

Two children face the terrors of a house that wants them dead. Can Jason and Sally survive the evil spirits in the house on Cherry Street until their parents return? Jason looks for clues to the house's mysterious history—especially the “accidental” fall that killed Bobby, the ghost who still fears his terrifying nanny and whose body was never found. Maybe if Jason and his sister can right the wrongs of the past, the house will no longer be haunted. But that means they'll have to go back inside . . . The Final Nightmare is the concluding book of the chilling House on Cherry Street trilogy from prolific wife-and-husband coauthors Lynn Harnett and Rodman Philbrick, the Newbery Honor Award-winning author of *Freak the Mighty*.

Dr Franklin's Island

Although billions of dollars are being spent to find a cure for AIDS, and many drugs are now available for its treatment, millions of people worldwide continue to suffer and die from this disease. Unraveling AIDS is

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a timely and well-researched book that addresses a wide range of issues regarding the AIDS pandemic. Perhaps most important, the authors explore alternative therapies that appear to be safer, more effective, and less costly than the current generation of AIDS pharmaceuticals.

The Rainbow and the Worm

A complete overview of genetic engineering, including important background information to help readers understand this important and often controversial scientific topic.

GMO Sapiens

Introduces major concepts in the modification of genes in plants, animals, and humans, including coverage of such topics as DNA and the law, genetically modified foods, and the stem-cell debate.

Genetic Engineering, Food, and Our Environment

This book explains the underlying science of genetic engineering and deals with the social and moral and ethical aspects of this technology.

Hacking the Code of Life

Guy Carson, a brilliant researcher at GeneDyne, is delighted when he is transferred to Mount Dragon, the company's high-security genetic engineering lab, until

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he discovers that scientists there have concocted a killer virus that threatens all humankind. Reissue.

Mutation

Official U.S. edition with full color illustrations throughout. NEW YORK TIMES BESTSELLER Yuval Noah Harari, author of the critically-acclaimed New York Times bestseller and international phenomenon *Sapiens*, returns with an equally original, compelling, and provocative book, turning his focus toward humanity's future, and our quest to upgrade humans into gods. Over the past century humankind has managed to do the impossible and rein in famine, plague, and war. This may seem hard to accept, but, as Harari explains in his trademark style—thorough, yet riveting—famine, plague and war have been transformed from incomprehensible and uncontrollable forces of nature into manageable challenges. For the first time ever, more people die from eating too much than from eating too little; more people die from old age than from infectious diseases; and more people commit suicide than are killed by soldiers, terrorists and criminals put together. The average American is a thousand times more likely to die from binging at McDonalds than from being blown up by Al Qaeda. What then will replace famine, plague, and war at the top of the human agenda? As the self-made gods of planet earth, what destinies will we set ourselves, and which quests will we undertake? *Homo Deus* explores the projects, dreams and nightmares that will shape the twenty-first century—from overcoming death to creating artificial

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life. It asks the fundamental questions: Where do we go from here? And how will we protect this fragile world from our own destructive powers? This is the next stage of evolution. This is Homo Deus. With the same insight and clarity that made Sapiens an international hit and a New York Times bestseller, Harari maps out our future.

The Final Nightmare

For millennia, we lived in harmony with the Earth, taking only what we required to survive. But in just the past few centuries, we have used our powers to satisfy our obsession with consumption and new technology, without regard for the consequences. And in doing so, we have exploited our surroundings on an unprecedented scale. In this revised and updated edition of *From Naked Ape to Superspecies*, David Suzuki and Holly Dressel lucidly describe how we have evolved beyond our needs, trampling other species, believing that we can make the Earth work the way we want it to. And they introduce us to the people who are fighting back, those who are resisting the inexorable advance of the "global economy" juggernaut, the people whose voices are difficult to hear over the din of corporate public relations machines. We learn about how human arrogance—demonstrated by our disregard for the small and microscopic species that constitute the Earth's engine and our reckless use of technological inventions like powerful herbicides or genetically engineered crops—is threatening the health of our children and the safety of our food supply.

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Food Matters

This volume claims that genetic engineering is inadequately researched technology that is out of control. It aims to show how genetic determinism is at odds with the reality of scientific findings.

Genetic Engineering, Dream Or Nightmare?

Explains why genetic engineering has become such a critically important issue, providing an introduction to social, environmental, and health implications arising from the commercial use of this technology in food and farming. Reviews concepts surrounding genes and DNA, defines genetic engineering,

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