



## Ethical Issues in Animal Biotechnology

# Animal Biotechnology And Ethics

**Alan J. Holland, Andrew Johnson**



## **Animal Biotechnology And Ethics:**

**Animal Biotechnology and Ethics** Alan J. Holland, Andrew Johnson, 2012-12-06 Advanced biomedical techniques such as genetic engineering are now used extensively in animal related research and development As the pace of development has quickened there has been growing public anxiety about the ethical issues involved Animal Biotechnology and Ethics draws together in one book some of the leading themes and issues which have emerged in the recent debates surrounding biotechnology as applied to animals With contributions from authors of many different viewpoints the subject is given a thorough and balanced treatment Among those to whom the book will be of particular interest are practitioners of animal biotechnology and those whose interest lies in assessing its credentials such as philosophers and social or political scientists It also has a great deal to interest policy makers and pressure groups as well as more general readers The strong chapters on the legal and regulatory framework will make it useful to those involved in advising on company policy patenting or litigation

**Ethics, Morality and Animal Biotechnology** Roger Straughan, 1999 **Animals as Biotechnology** Richard Twine, 2010-09-23 In **Animals as Biotechnology** sociologist Richard Twine places the question of human animal relations at the heart of sustainability and climate change debates The book is shaped by the emergence of two contradictory trends within our approach to nonhuman animals the biotechnological turn in animal sciences which aims to increase the efficiency and profitability of meat and dairy production and the emerging field of critical animal studies mostly in the humanities and social sciences which works to question the nature of our relations with other animals The first part of the book focuses on ethics examining critically the dominant paradigms of bioethics and power relations between human and non human The second part considers animal biotechnology and political economy examining commercialisation and regulation The final part of the book centres on discussions of sustainability limits and an examination of the prospects for animal ethics if biotechnology becomes part of the dominant agricultural paradigm Twine concludes by considering whether growing calls to reduce our consumption of meat dairy products in the face of climate change threats are in fact complicit with an anthropocentric understanding of sustainability and that what is needed is a more fundamental ethical and political questioning of relations and distinctions between humans animals and nature **Food Biotechnology in Ethical**

**Perspective** Paul B. Thompson, 2007-05-05 Agrifood biotechnology the genetic transformation of plants and animals through recombinant means has created controversy in the food system for more than twenty years This thoroughly revised and amended edition of Paul B Thompson s path breaking study of ethical and philosophical issues raised by this technology up to date The original 1997 edition was the first book length treatment by a philosopher to focus on food and agricultural biotechnology covering ethical issues associated with risk assessment labelling animal transformation patents and the impact of biotechnology on traditional farming communities in both the developed and developing world The new edition reflects lessons from the hotly contested debates over those issues in the intervening decade and includes wholly new discussions on

ethical issues associated with livestock cloning the Precautionary Principle and the transatlantic debate between United States and European perspectives on biotechnology Thompson's unique and insightful approach to addressing the risks and questions of public acceptability associated with novel technology stands as a model for anyone interested in technological innovation and social change The book should be of interest to scholars and citizens interested in the Internet or nanotechnology while it remains an essential resource for understanding the twists and turns of debate over the role of molecular genetics in the transformation of the global food system

Designer Animals Conrad Brunk, Sarah Hartley, 2012-02-10 Designer Animals is an in depth study of the debates surrounding the development of animal biotechnology which is quickly emerging out of the laboratory and into the commercial marketplace This book innovatively combines expert analysis on the technology's economic professional ethical and religious implications while remaining firmly grounded in the real world political environment in which the issue is played out Designer Animals uses non technical language to explore the science behind animal biotechnology and the ethical frameworks at play in its surrounding debates By investigating the interests of major stakeholders including researchers on the cutting edge of science mainstream and alternative agriculture organizations the animal welfare movement and health care providers patients and researchers the contributors illuminate the most important points of agreement and disagreement on this hotly contested topic

Ethical Issues in Biotechnology Richard Sherlock, John D. Morrey, 2002-10-09 Visit our website for sample chapters

**Biotech Animals in Research** Mickey Gjerris, Anna Kornum, Helena Röcklinsberg, Dorte Bratbo Sørensen, 2023-12-06 This book explores central aspects of genetic modification of animals for scientific purposes in the context technological possibilities regulatory issues in different regions animal welfare implications and wider ethical issues exemplified through current theories and frameworks This discussion of lab animals produced through modern biotechnologies becomes increasingly pressing as CRISPR Cas9 technology advances rapidly challenging legal and ethical frameworks all over the world Such animals are now affordable and readily available to almost every branch of scientific research This not only raises enormous potential for creating tailored models for human diseases but also rubs up against the traditional guiding principles the 3Rs for the humane use of animals for scientific experiments and raises wider ethical issues around death integrity and naturalness In this book expert authors from diverse backgrounds in laboratory animal care animal research technology and animal rights explore a range of topics from the science behind biotech research animals and the regulation of their use to utilitarian animal rights virtue ethics and ethics of care and critical animal studies perspectives on the use of these technologies Whatever your background or role in animal research this book will challenge and stimulate deeper consideration of the benefits disadvantages and ethical consequences of the use of biotechnology in the animal laboratory

Ethical Implications of Animal Biotechnology: Considerations for Animal Welfare Decision Making Council for Agricultural Science and Technology (CAST) (Ames), 2010

*Animal Biotechnology and the Ethics of Hybridization* Paul B.

Thompson, 1994      **The Animal Ethics Reader** Susan Jean Armstrong, Richard George Botzler, 2003 The Animal Ethics Reader is the first comprehensive state of the art anthology of readings on this substantial area of study and interest. A subject that regularly captures the headlines, the book is designed to appeal to anyone interested in tracing the history of the subject as well as providing a powerful insight into the debate as it has developed. The recent wealth of material published in this area has not until now been collected in one volume. Readings are arranged thematically, carefully presenting a balanced representation of the subject as it stands. It will be essential reading for students taking a course in the subject as well as being of considerable interest to the general reader. Articles are arranged under the following headings: Theories of Animal Ethics, Animal Capacities, Animals for Food, Animal Experimentation, Genetic Engineering of Animals, Ethics and Wildlife, Zoos, Aquaria, and Animals in Entertainment, Companion Animals, Legal Rights for Animals. Readings from leading experts in the field, including Peter Singer, Mary Midgely, and Bernard Rollin, are featured, as well as selections from Donald Griffin, Mark Bekoff, Jane Goodall, Raymond Frey, Barbara Orlans, Tom Regan, and Baird Callicott. There is an emphasis on balancing classic and contemporary readings with a view to presenting debates as they stand at this point in time. Each chapter is introduced by the editors, and study questions feature at the end. The foreword has been written by Bernard Rollin. This will be appropriate reading for students taking courses in philosophy, ethics, zoology, animal science, psychology, veterinary medicine, law, environmental science, and religion.

*Biotech Animals in Research* Taylor & Francis Group, 2023-11-14 This book explores central aspects of genetic modification of animals for scientific purposes in the context of technological possibilities, regulatory issues in different regions, animal welfare, implications, and wider ethical issues exemplified through current theories and frameworks. This discussion of lab animals produced through modern biotechnologies becomes increasingly pressing as CRISPR-Cas9 technology advances rapidly, challenging legal and ethical frameworks all over the world. Such animals are now affordable and readily available to almost every branch of scientific research. This raises enormous potential for creating tailored models for human diseases but also rubs up against the traditional guiding principles, the 3Rs, for the humane use of animals for scientific experiments and raises wider ethical issues around death, integrity, and naturalness. In this book, expert authors from diverse backgrounds in laboratory animal care, animal research, technology, and animal rights explore a range of topics from the science behind biotech research, animals, and the regulation of their use to utilitarian, animal rights, virtue ethics, and ethic of care perspectives on the use of these technologies. Whatever your background or role in animal research, this book will challenge and stimulate deeper consideration of the benefits, disadvantages, and ethical consequences of the use of biotechnology in the animal laboratory.

*Crossing Over* Frank Timmermans, 2005 *Crossing Over* promotes reflection on the socio-ethical and policy and regulatory aspects of genomics and biotechnology. This collection of essays illuminates the common themes surrounding this hotly contested issue and considers the politics, public perception, ethics, media representations, and future possibilities of genomics.

**Animal Biotechnology** National Research

Council, Division on Earth and Life Studies, Board on Life Sciences, Board on Agriculture and Natural Resources, Committee on Agricultural Biotechnology, Health, and the Environment, Committee on Defining Science-Based Concerns Associated with Products of Animal Biotechnology, 2002-11-29 Genetic based animal biotechnology has produced new food and pharmaceutical products and promises many more advances to benefit humankind These exciting prospects are accompanied by considerable unease however about matters such as safety and ethics This book identifies science based and policy related concerns about animal biotechnology key issues that must be resolved before the new breakthroughs can reach their potential The book includes a short history of the field and provides understandable definitions of terms like cloning Looking at technologies on the near horizon the authors discuss what we know and what we fear about their effects the inadvertent release of dangerous microorganisms the safety of products derived from biotechnology the impact of genetically engineered animals on their environment In addition to these concerns the book explores animal welfare concerns and our societal and institutional capacity to manage and regulate the technology and its products This accessible volume will be important to everyone interested in the implications of the use of animal biotechnology

**The Animal Ethics Reader** Susan J. Armstrong, Richard G. Botzler, 2016-11-18 The Animal Ethics Reader is an acclaimed anthology containing both classic and contemporary readings making it ideal for anyone coming to the subject for the first time It provides a thorough introduction to the central topics controversies and ethical dilemmas surrounding the treatment of animals covering a wide range of contemporary issues such as animal activism genetic engineering and environmental ethics The extracts are arranged thematically under the following clear headings Theories of Animal Ethics Nonhuman Animal Experiences Primates and Cetaceans Animals for Food Animal Experimentation Animals and Biotechnology Ethics and Wildlife Zoos and Aquariums Animal Companions Animal Law and Animal Activism Readings from leading experts in the field including Peter Singer Bernard E Rollin and Jane Goodall are featured as well as selections from Tom Regan Jane Goodall Donald Griffin Temple Grandin Ben A Minteer Christine Korsgaard and Mark Rowlands Classic extracts are well balanced with contemporary selections helping to present the latest developments in the field This revised and updated Third Edition includes 31 new readings on a range of subjects including animal rights captive chimpanzees industrial farm animal production genetic engineering keeping cetaceans in captivity animal cruelty and animal activism The Third Edition also is printed with a slightly larger page format and in an easier to read typeface Featuring contextualizing introductions by the editors study questions and further reading suggestions as the end of each chapter this will be essential reading for any student taking a course in the subject With a new foreword by Bernard E Rollin

**Biotechnology and Bioethics**, 1996 **Animal Biotechnology** June Fessenden MacDonald, 1992 **The Ethics of Animal Research** Jeremy R. Garrett, 2012-03-30 A balanced accessible discussion of whether and on what grounds animal research can be ethically justified An estimated 100 million nonhuman vertebrates worldwide including primates dogs cats rabbits hamsters birds rats and mice are bred

captured or otherwise acquired every year for research purposes Much of this research is seriously detrimental to the welfare of these animals causing pain distress injury or death This book explores the ethical controversies that have arisen over animal research examining closely the complex scientific philosophical moral and legal issues involved Defenders of animal research face a twofold challenge they must make a compelling case for the unique benefits offered by animal research and they must provide a rationale for why these benefits justify treating animal subjects in ways that would be unacceptable for human subjects This challenge is at the heart of the book Some contributors argue that it can be met fairly easily others argue that it can never be met still others argue that it can sometimes be met although not necessarily easily Their essays consider how moral theory can be brought to bear on the practical ethical questions raised by animal research examine the new challenges raised by the emerging possibilities of biotechnology and consider how to achieve a more productive dialogue on this polarizing subject The book s careful blending of theoretical and practical considerations and its balanced arguments make it valuable for instructors as well as for scholars and practitioners

**Animal Welfare** S. A. Rahman,A. Gavinelli,2005

**Animal Ethics in Context** Clare Palmer,2010 It is widely agreed that because animals feel pain we should not make them suffer gratuitously Some ethical theories go even further because of the capacities that they possess animals have the right not to be harmed or killed These views concern what not to do to animals but we also face questions about when we should and should not assist animals that are hungry or distressed Should we feed a starving stray kitten And if so does this commit us if we are to be consistent to feeding wild animals during a hard winter In this controversial book Clare Palmer advances a theory that claims with respect to assisting animals that what is owed to one is not necessarily owed to all even if animals share similar psychological capacities Context history and relation can be critical ethical factors If animals live independently in the wild their fate is not any of our moral business Yet if humans create dependent animals or destroy their habitats we may have a responsibility to assist them Such arguments are familiar in human cases we think that parents have special obligations to their children for example or that some groups owe reparations to others Palmer develops such relational concerns in the context of wild animals domesticated animals and urban scavengers arguing that different contexts can create different moral relationships

*Agriculture and Human Values*,1997

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