# BOTECHNOLOGY

Science-Based Concerns

NATIONAL RESEARCH COUNCIL OF THE MATIONAL ACADEMIES

# **Animal Biotechnology Science Based Concerns**

**Tao Wei** 

## **Animal Biotechnology Science Based Concerns:**

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 Animal Biotechnology, 2002 Animal Biotechnology Debra Davis, 2002-12-01 Genetic based animal biotechnology 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 Animal Biotechnology 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 or 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 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, 2002-12-29 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 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 studiers 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 Encyclopedia of Agriculture and Food Systems Neal K. Van Alfen, 2014-07-29 Encyclopedia of Agriculture and Food Systems Second Edition Five Volume Set addresses important issues by examining topics of global agriculture and food systems that are key to understanding the challenges we face Questions it addresses include Will we be able to produce enough food to meet the increasing dietary needs and wants of the additional two billion people expected to inhabit our planet by 2050 Will we be able to meet the need for so much more food while simultaneously reducing adverse environmental effects of today's agriculture practices Will we be able to produce the additional food using less land and water than we use now These are among the most important challenges that face our planet in the coming decades The broad themes of food systems and people agriculture and the environment the science of agriculture agricultural products and agricultural production systems are covered in more than 200 separate chapters of this work The book provides information that serves as the foundation for discussion of the food and environment challenges of the world An international group of highly respected authors addresses these issues from a global perspective and provides the background references and linkages for further exploration of each of topics of this comprehensive work Addresses important challenges of sustainability and

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use These analyses and case studies are intended to provide readers with a variety of conceptual tools through which the use of agricultural technologies might possibly be understood and debated **Animal Welfare in Animal Agriculture** Wilson G. Pond, Fuller W. Bazer, Bernard E. Rollin, 2011-11-23 What constitutes animal welfare With animals being used for companionship service research food fiber and by products animal welfare is a topic of great interest and importance to society As the world's population continues to increase a major challenge for society is the maintenance of a strong and viable food system which is linked to the well being and comfort of food animals Animal Welfare in Animal Agriculture Husbandry Stewardship and Sustainability in Animal Production explores the pressing issue of farm animal welfare in animal production systems in the United States and globally A framework for open discussion on animal welfare this multidisciplinary book brings together the perspectives of 40 highly qualified and recognized experts in their respective fields Fourteen chapters address a range of topics that includes ethics sociology food safety ecology feed resources biotechnology government regulations and sustainability as well as animal comfort health and contributions to society The book also offers a historical perspective on the growth of animal agriculture from family farms to industrial animal agriculture and the impact this has had on society Illustrating the diversity of viewpoints the concept of animal welfare is defined from the perspectives of an ethicist and philosopher a research scientist a veterinarian an industrialist and an activist as well as from the perspective of sustainability and product quality Written primarily for students but also highly relevant for professionals in varying fields of academia and industry this timely book reveals important insights into animal welfare and animal agriculture Unique in its depth breadth and balance it underscores the need for dialogue on wide ranging and often contentious issues related to animal production systems

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