

TABLE OF CONTENTS

Are We Pushing Animals to Their Biological Limits?

- 1: Introduction: Use New Genetic Technologies and Animal Breeding Methods Carefully to Avoid Problems
- 2: Domestication to Dolly and Beyond: A Brief History of Animal Modification
- 3: Good for Whom? Differences between Human and Animal Enhancement
- 4: Working Equids: The Welfare of Those Worked to Their Limit
- 5: Genetics and Other Technologies for Increasing the Productivity of Cattle, Sheep and Pigs: Welfare Implications
- 6: Technologies for Increasing the Productivity of Poultry: Welfare Implications
- 7: Selective Breeding, Cloning and Gene Editing of Dogs and Cats for Appearance and Performance Traits
- 8: Methods to Increase Fish Production: Welfare and Sustainability Implications
- 9: Welfare Concerns in Genetically Modified Laboratory Mice and Rats
- 10: Cloning, Editing and GMOs for Animal Enhancement
- 11: From Bionic Cat to Superdog: Ethical Challenges of Advanced Prosthetic Technology in Veterinary Medicine
- 12: Animal Welfare and the Brave New World of Modifying Animals
- 13: A Duty to the Enhanced, not a Duty to Enhance: Welfare Responsibilities Associated with Domestication
- 14: Pressing Animals Beyond Their Biological Limits
- 15: Concluding: Animals Pushed to Their Limits.