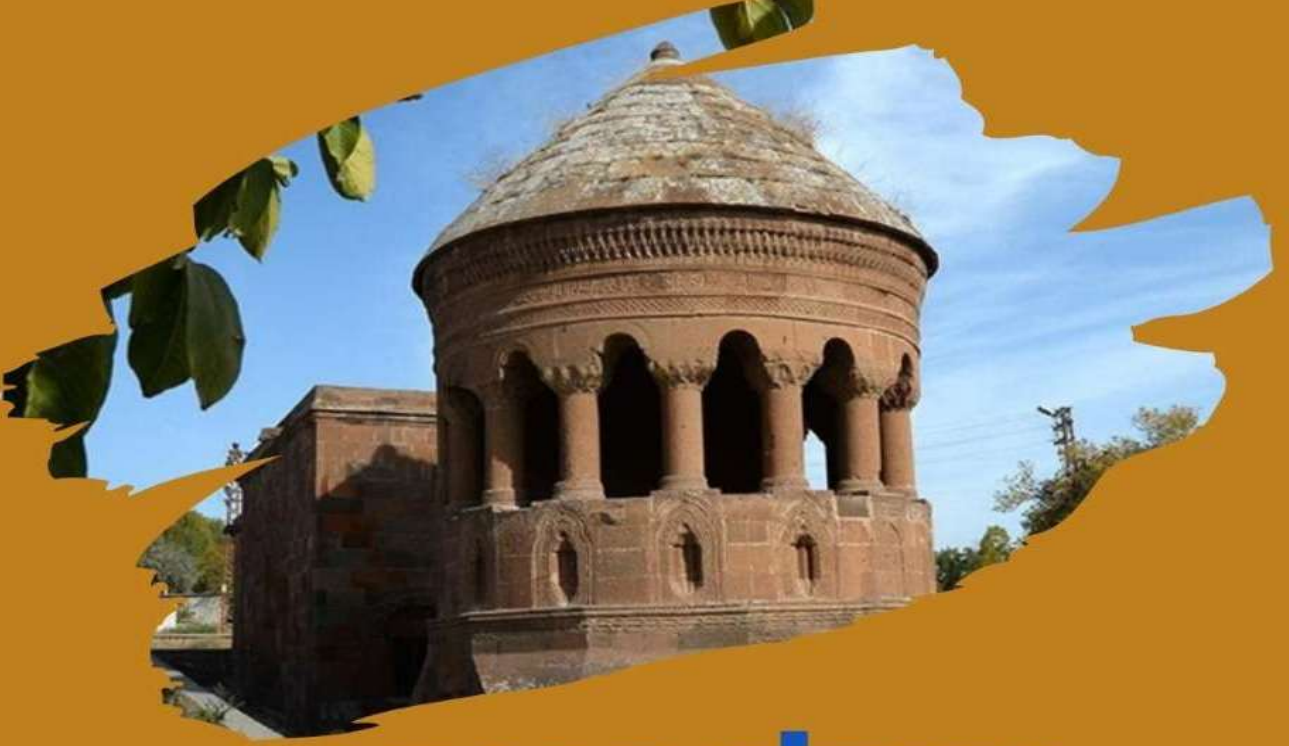


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# ROLE OF BIOETHICS IN ANIMAL BIOTECHNOLOGY

**Muhammad Usman Jamil**

[usmanjamil578@gmail.com](mailto:usmanjamil578@gmail.com)

**Institute of Biochemistry and Biotechnology, Faculty of Biosciences, University of Veterinary and Animal Sciences, Lahore, Pakistan.**

## **Abstract**

Bioethics in animal biotechnology is an essential field that explores the ethical implications of using biotechnology on animals. It covers a range of concerns, from animal welfare and environmental impacts to human health and safety. Key ethical issues include ensuring the well-being of genetically modified animals, addressing the potential ecological consequences of introducing genetically altered species, and safeguarding food safety. The moral status of animals is also a significant topic, with discussions on their intrinsic value, rights, and personhood. Furthermore, bioethics influences regulatory and policy frameworks, shaping legislation to uphold ethical standards in biotechnological practices. It also addresses public engagement and social justice issues, ensuring fair distribution of the benefits of biotechnology and minimizing harm to small-scale farmers. Philosophical questions regarding species integrity and the definition of "naturalness" are critical, as are the economic and social impacts of these innovations. Ethical approaches like utilitarianism, deontological ethics, and virtue ethics guide the evaluation of these concerns. Bioethics in animal biotechnology remains a multifaceted field, requiring continuous ethical reflection to address the challenges posed by the advancements in this domain.

**Keywords:** Animal Biotechnology, Bioethics, Genetic Modification, Animal Welfare