

CRISPR Technology: Ethical Implications and Applications

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Abstract. The article explores the ethical implications and applications of CRISPR technology in modern medicine. By discussing the potential for gene editing to revolutionize treatment options and the challenges it presents, the study provides a comprehensive overview of CRISPR's role in future healthcare innovations.

Keywords: CRISPR, Gene editing, Ethics, Genetic engineering, Healthcare innovation

Introduction

CRISPR technology has rapidly advanced as a groundbreaking tool in genetic engineering, offering unprecedented possibilities for modifying and understanding genetic material. This article delves into the diverse applications of CRISPR in medicine, particularly its potential to revolutionize treatment options for genetic disorders. By examining current research and clinical trials, the article highlights the transformative impact of CRISPR on modern healthcare. However, the powerful capabilities of gene editing also raise significant ethical concerns. The article discusses these ethical implications, emphasizing the need for stringent regulations and ethical guidelines to ensure responsible use of CRISPR technology. It concludes with a consideration of the future possibilities and challenges that CRISPR presents to the medical community.

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