Exploring CRISPR-Cas Systems for Genetic Disorders

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Abstract. CRISPR-Cas technology has revolutionized the field of genetic engineering, offering precise tools for genome editing. This article examines its application in correcting genetic disorders, reviewing recent advancements and ethical considerations. The authors discuss the potential and challenges of CRISPR-Cas systems in clinical settings.

Keywords: CRISPR-Cas, Genetic Disorders, Genome Editing, Ethical Considerations, Clinical Trials

Introduction

CRISPR-Cas systems have transformed genetic engineering by providing precise tools for genome editing, offering new possibilities for treating genetic disorders. This technology allows for the targeted modification of DNA sequences, enabling the correction of genetic mutations that cause disease. This article reviews recent advancements in the application of CRISPR-Cas systems for genetic disorder correction, highlighting clinical trials and ethical considerations. The authors discuss the challenges and potential of CRISPR-Cas technology in clinical settings, emphasizing the need for careful evaluation of its long-term effects.

References

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