# Ethical Considerations in Genetic Editing Technologies

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**Abstract.** This article explores the ethical challenges posed by genetic editing technologies, focusing on CRISPR and related tools. It discusses the implications of genetic modifications and the need for regulatory frameworks in medical research.

**Keywords:** Genetic Editing, CRISPR, Ethical Challenges, Regulatory Frameworks, Medical Research

## Introduction

Genetic editing technologies, particularly CRISPR, have revolutionized the field of genetic research, offering unprecedented opportunities for medical advancements. However, these technologies also raise significant ethical concerns, particularly regarding the potential for unintended consequences and the broader implications of genetic modifications. This article delves into the ethical considerations surrounding genetic editing, discussing the need for robust regulatory frameworks to guide research and application. The balance between scientific progress and ethical responsibility is critically examined.

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