

Abstract

This research project focuses on human genetic modification and its relation to science fiction. As scientists continue to experiment with DNA and human genomes in an attempt to eliminate some potential diseases, and, it is imperative to analyze and discuss some of the benefits and consequences of modifying human DNA. It is also important to discuss some of the moral and ethical questions pertaining to this topic. These are current events happening in society right now, and it's important to get the science right to prevent errors.

This research project covers some of the basic information needed to understand what human genetic modification is by explaining it and related terms and techniques used by professionals within that field of work. The project also references a science fiction thriller TV series known as Orphan Black and discusses it's relation to the topic, while simultaneously exploring the benefits and downsides of human genetic modification. The research for this will hopefully educate readers on this topic and to get viewers thinking.

The presentation briefly goes over different gene modifying techniques, such as CRISPR, a technique for genetically modifying DNA within a cell. It will also cover the importance of genetic modification, such as potentially eliminating cancer, while also raising some concerns to be wary of as modifying human DNA can lead to a lot of issues such as permanent unwanted mutations for generations or elimination of diversity. This presentation does not provide a judge why one way may be right while another may be wrong. A process of which consisted of exploring different topics relating to science fiction, thorough research on genetics, CRISPR, and modifying genetics, asking people studying within the field all to gain better insight on the topic to provide a detailed analysis.