

## Genetic Engineering Quiz PDF

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### What is genetic engineering?

- The study of heredity and variation in organisms
- The alteration of the genetic material of an organism
- The natural selection process in evolution
- The study of ecosystem interactions

### Which technique is commonly used for gene editing?

- PCR
- CRISPR-Cas9
- Gel electrophoresis
- DNA sequencing

### Which of the following is a genetically modified crop?

- Organic wheat
- Bt corn
- Wild rice
- Heirloom tomatoes

### What is the primary purpose of gene therapy?

- To enhance athletic performance
- To treat genetic disorders
- To increase crop yield
- To create new species

### Which crops have been genetically modified for improved nutrition? (Select all that apply)

- Golden Rice
- Organic corn

- Soybeans
- Heirloom tomatoes

**What are the ethical implications of using genetic engineering for human enhancement?**

**Which techniques are used in genetic engineering? (Select all that apply)**

- Gene cloning
- Recombination DNA technology
- Natural selection
- CRISPR-Cas9

**What are some potential future applications of genetic engineering? (Select all that apply)**

- Disease eradication
- Space exploration
- Synthetic biology
- Renewable energy

**Describe the historical development of genetic engineering and its key milestones.**

**Explain the process of CRISPR-Cas9 and its significance in genetic engineering.**

**Discuss the potential social impacts of genetic engineering in agriculture.**

**Which organization regulates genetically modified foods in the United States?**

- WHO
- FDA
- UNESCO
- CDC

**What is the ethical concern associated with genetic enhancement?**

- It may lead to increased biodiversity
- It could create inequality
- It ensures food security
- It promotes natural selection

**How does genetic engineering contribute to advancements in medicine? Provide examples.**

**Which of the following is an example of a pharmaceutical product produced using genetic engineering?**

- Aspirin
- Insulin
- Penicillin
- Ibuprofen

**Who is known for pioneering work in genetic engineering?**

- Gregor Mendel
- Charles Darwin
- Paul Berg
- James Watson

**What are the roles of regulatory bodies in genetic engineering? (Select all that apply)**

- Ensuring safety of GMOs
- Promoting public awareness
- Funding genetic research
- Approving new genetic technologies

**Predict future trends in genetic engineering and their possible effects on society.**

**Which of the following are applications of genetic engineering in agriculture? (Select all that apply)**

- Pest resistance
- Increased crop yield
- Climate change adaptation
- Soil erosion prevention

**What are some ethical concerns related to genetic engineering? (Select all that apply)**

- Environmental impact
- Genetic diversity reduction
- Increased food production
- Potential for human enhancement