

# Advancements in Biotechnology

## Improve Animal Health

Farmers have been improving livestock herds through modern technology such as genetic mapping or cloning. Through these recent advancements in biotechnology, farmers can enhance breeding, leading to healthier herds.



## Advance Human Health

Advancements in biotechnology relating to animals have been used to provide medicine for humans. Pharmaceuticals made by animals produce therapeutic proteins which can be used in biopharmaceuticals. Further advancements could be used to create transplant organs, tissues, and cells in pigs that are compatible with humans.



Improvements in biotechnology have allowed us to reduce animal wastes, which minimizes their effect on the environment. In regards to animals, we've discovered techniques of reproduction and cloning that allow us to preserve genetics of endangered species.

## Conservation of Environment and Animals



Improvements in animal health conditions through vaccines, medicine, and diagnostic tests lead to better food safety and quality for consumers. In the future, some foods could be nutritionally enriched with biotechnology.

## Develop Nutritious Food

