

## Exploring the biotechnology revolution in food and medicine

Biotechnology develops cellular and biomolecular processes to create products that will make our lives easier .... Today, biotechnology fights against diseases, environmental footprints, starvation, excessive, unhealthy energy consumption, and dangerous, contaminated, inefficient industrial manufacturing processes through its breakthrough technologies and products.

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### **Fields of Biotechnology**

#### Agricultural Biotechnology

This field concentrates on developing genetically modified plants in order to increase crop yields and provide new characteristics to plants that are advantageous in otherwise stressful weather conditions and pests.

The procedure is generally consisted of scientists identifying a positive characteristic, finding the source of that gene that induces it, and then placing the gene in another plant to create the desirable characteristic within itself so that it produces larger yields and is more durable.

#### Plant and Animal Breeding

One of the oldest practices that date back to farming, selective breeding, has always been a part of our lives for a better standard of living. Animals with desirable characteristics such as being large, domicile, and more resistant to diseases were matched with one another to create an ultimately profitable farming business.

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