

# Biotechnology: Principles and processes

## **What is biotechnology?**

- Biotechnology refers to the technology using biology, which has applications in agriculture, food processing industry, medicine diagnostics, bioremediation, waste treatment, and energy production.
- The European Federation of Biotechnology (EFB) defines biotechnology as "the integration of natural science and organisms, cells, parts thereof and molecular analogues for products and services".

## **Basis of Modern Biotechnology**

- **Genetic engineering** – Introduction of foreign genetic material (DNA/RNA) into the host's genome and altering its phenotype
- **Aseptic techniques** – Involves maintenance of contamination-free ambience in chemical engineering processes for manufacture of products such as antibiotics, vaccines, etc. This is done so as to enable the growth of only desired microbes responsible for a bioprocess.

## **Genetic Engineering**

- Asexual reproduction preserves the genetic information while sexual reproduction preserves variations.
- Plant and animal hybridization procedures often result in introduction of undesirable genes along with desirable ones.
- Genetic engineering overcomes this limitation.
- Genetic engineering includes:
  - Creation of recombinant DNA
  - Gene cloning
  - Gene transfer into host organism
- The introduced piece of DNA does not replicate in the host unless it is integrated with the chromosome of host.
- For getting replicated, the foreign DNA must integrate into the host DNA sequence having 'origin of replication'. When this integration occurs, foreign DNA is replicated and many copies are formed. This

# Principles And Processes Of Biology

**RC Schank**



## **Principles And Processes Of Biology:**

## Embracing the Beat of Appearance: An Psychological Symphony within **Principles And Processes Of Biology**

In a world taken by screens and the ceaseless chatter of instantaneous communication, the melodic beauty and emotional symphony produced by the published term frequently fade in to the back ground, eclipsed by the constant noise and distractions that permeate our lives. But, situated within the pages of **Principles And Processes Of Biology** a stunning fictional value filled with natural feelings, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, that charming masterpiece conducts readers on an emotional trip, well unraveling the concealed tunes and profound impact resonating within each carefully constructed phrase. Within the depths with this touching review, we will investigate the book is key harmonies, analyze its enthralling publishing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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