

- It leads to the formation of various cell types in a multicellular organism.

#### 9. Stem Cells

- Stem cells are undifferentiated cells with the potential to become different cell types.
- They can be used for research and medical treatments but have ethical considerations.

#### 10. Cell Division

- Cell division is essential for growth, repair, and asexual reproduction.
- Mitosis: The process where one cell divides into two identical daughter cells with the same number of chromosomes.
- Binary Fission: A method of cell division in prokaryotic cells (e.g., bacteria).

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