

LECTURE 1

- Definition of biotechnology
- ❖ *Biotechnology* is the use of biological processes, organisms, or systems to manufacture products intended to improve the quality of human.
- Branches and its relationship to basic sciences.

- ❖ **Agriculture.**
- ❖ **Animal Husbandry.**
- ❖ **Health care (also termed as Medical Biotechnology).**
- ❖ **Industry.**
- ❖ **Aquaculture and Marine biotechnology.**
- ❖ **Environmental Biotechnology.**
- ❖ **Aquaculture and Marine biotechnology.**
- ❖ **Environmental Biotechnology.**
- ❖ **Bioinformatics.**

- Importance of biotechnology in crop improvement and production.

- ❖ Plant breeding by utilization of molecular biotechnological tools,
- ❖ Genetic improvements of foods
- ❖ Tolerance of stress in plants.
- ❖ Molecular farming.
- ❖ Growth/development of plants through generation.