

# Bio 293 Microbiology

## CHAPTER 11 Control of Microbial Growth (summary & study guide)

### Points of focus

1. Summarize the major categories of microbial control and its purposes.
  - Purpose of microbial control:
    - Methods of microbial control: sterilization, disinfection, decontamination, sanitization, pasteurization, antisepsis, degerming
2. Evaluate the relative resistance of different groups of infectious agents.
  - Most resistant: endospores, then cysts and sexual fungal spores, then some bacterial species such as *Mycobacterium* and *Pseudomonas*.
  - Least resistant: vegetative cells of many bacteria and fungi
3. Define and differentiate among the major terms for microbial control, citing examples of each.
  - Microbicidal (kill) and micro-biostasis (stop growth).
4. Characterize the parameters of microbial death and describe several factors that influence the rate of death.
  - Death: permanent loss of reproductive capacity
5. Summarize what factors influence the effectiveness of an antimicrobial agent.
  - Factors: # of microorganisms, nature of microbial population (biofilm is more resistant), impurity, pH, temperature, concentration and dosage, solvents, and organic matters, etc.
6. Identify the targets of antimicrobial control agents and explain what effects these agents have.
  - DNA → mutations (e.g. radiation). Protein denaturation and precipitation (e.g. alcohol). Membrane disintegration (e.g. alcohol and detergents). Cell wall.
7. List the major types of physical agents used in controlling microbes.
  - Filtration, radiation (ionizing and non-ionizing), heat, cold.
8. Describe the basic effects of temperature on microbes.
  - Denature and destabilize proteins and disintegrate membrane.
9. Define moist and dry heat and explain their modes of action and relative effectiveness.
  - Moist heat (with humidity and pressure-closed chamber) is most effective than dry heat. Moist heat coagulate and denature proteins. Dry heat denature protein at low temp but burn/oxidize at higher temps.
10. Differentiate between thermal death point and thermal death time and provide examples of their uses.
  - thermal death point (TDP): lowest temp needed to kill microorganisms in 10 min.
  - thermal death time (TDT): shortest time needed to kill microorganisms at a given temperature
11. Describe several moist heat methods and their chief applications for sterilization and disinfection.
  - Autoclaving: heat, moisture, pressure (pressure cooker!).
12. Describe some methods using dry heat and its chief applications.
  - Dry oven and incineration
13. Explain how cold temperatures and desiccation are used in microbial control.
  - Microbial physiology slows at lower temperatures. Desiccation dehydrates cells and prevent ice crystal formation. Temps below -70°C are preserving microorganismal cells.
14. Define radiation and assess the use of irradiation as a method of microbial control.

# Microbial Growth Study Guide

**Ian Pickup**



## **Microbial Growth Study Guide:**

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