

Prescott's Microbiology 10th Edition Willey **Solutions Manual**

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1 The Evolution of Microorganisms and Microbiology

CHAPTER OVERVIEW

This chapter introduces the field of microbiology and discusses the importance of microorganisms not only as causative agents of disease, but also as important contributors to food production, antibiotic manufacture, vaccine development, and environmental management. It presents a brief history of the science of microbiology and an overview of the microbial world. The origin of life and microbial evolution is put in the context of microbial phylogenies.

LEARNING OUTCOMES

After reading this chapter students should be able to:

- differentiate the biological entities studied by microbiologists from those studied by other biologists.
- explain Carl Woese's contributions in establishing the three domain system for classifying cellular life
- provide an example of the importance to humans of each of the major types of microbes.
- determine the type of microbe (e.g. bacterium, fungus, etc) when given a description of a newly discovered microbe
- propose a time line of the origin and history of microbial life and integrate supporting evidence into it
- design a set of experiments that could be used to place a newly discovered cellular microbe on a phylogenetic tree based on small subunit (SSU) rRNA sequences
- compare and contrast the definitions of plant and animal species, microbial species and microbial strains
- evaluate the importance of the contributions to microbiology made by Hooke, Leewenhoek, Pasteur, Koch, Cohn, Beijerinck, von Behring, Kitasato, Metchnikoff and Winogradsky
- outline a set of experiments that might be used to decide if a particular microbe is the causative agent of a disease
- predict the difficulties that might arise when using Koch's postulates to determine if a microbe causes a disease unique to humans
- construct a concept map, table or drawing that illustrates the diverse nature of microbiology and how it has improved human conditions
- support the belief held by many microbiologists that microbiology is experiencing its second golden age

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