

# Introduction to Microbiology

**W**ELCOME TO MICROBIOLOGY: the study of the great variety of living organisms that are too small for us to see without a microscope—the **microbes**, or **microorganisms**. You will learn, as you read this book, that despite their minute size, these organisms form the basis for all life on earth. Their activities produce the soil in which plants grow and the atmospheric gases that plants and animals both use. Their activities regulate the temperature of earth, preventing it from freezing or baking; subterranean gelatinous masses of them may lubricate the movements of tectonic plates, and their chemical activities recycle gases on which all life on land depends.

For nearly three quarters of the history of earth, a period of about 3 billion years, microbes were the only life on earth. To us the planet would have looked barren and uninhabited, except for the colored scum at the edge of ponds and on intertidal rocks, yet the seas and lakes teemed with great masses of life. Even today, after nearly a billion years of abundant plant and animal life, the earth is fundamentally a microbial planet, to which the macro-organisms are recent and relatively unimportant additions. Life on earth is like an iceberg: only a small portion of it is visible (Figure 1.1).

In this chapter, we define our subject and then briefly survey the evolutionary history of life on earth, the major categories of microbial life, and the chemical composition of microbial cells.

## 1.1 Most microorganisms are microscopic, and they include all life forms other than the plants and animals

*Microorganism* is a term that is difficult to define precisely. Operationally, it refers to any organism that is too small to be seen by the unaided eye. For most people, that would be about 0.1 to 0.2 mm in diameter. Anything less than this cannot be seen without a microscope of some kind and is in a loose sense a microorganism.

In practice, however, the term microorganism is often used to include some macroscopic forms that belong to a group that is largely microscopic (e.g., the fungi, most of the algae), and it excludes some microscopic forms (e.g., some microscopic animals that despite their small size are multicellular with differentiated tissues and organ systems).

Our recent ability to sketch confidently the outlines of the evolution of life on earth, discussed later here and in Chapter 13, allows us to now define microorganism in evolutionary terms. Broadly speaking, microorganism in this sense would include everything except the animals and the plants.

# Microbiology By Wheelis

**Wolfgang Guggemos**



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