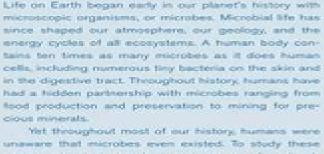
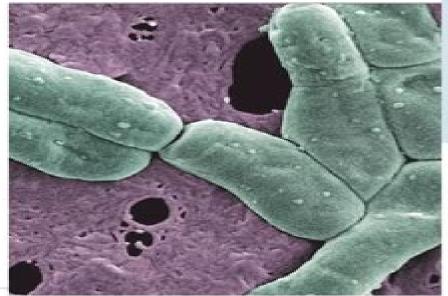
Chapter 1

Microbial Life: Origin and Discovery

- 1.1 From Germ to Genome: What Is a Microbe?
- 1.2 Microbes Shape Human History
- 1.3 Medical Microbiology
- 1.4 Microbial Ecology
- 1.5 The Microbial Family Tree
- Cell Biology and the DNA Revolution



Yet throughout most of our history, humans were unaware that microbes even existed. To study these unseen organisms required a microscope, first developed in the 1600s, in the nineteenth century—the "golden age" of microbiology—microscopes revealed the tiny organisms at work in our bodies and in our ecosystems. The twentieth century saw the rise of microbes as the engines of biotechnology. Microbial discoveries led to recombinant DNA and revealed the secrets of the first sequenced genomes.



Lactobacillus salivarius bacteria grow normally in human skin, where they produce bacteriocins, compounds that protect us from disease-causing bacteria. Their multi-part genome was sequenced by Manous Claesson and colleagues. (Claesson, et al. 2006. Proceedings of the National Academy of Sciences 103:6718.) Scanning electron micrograph is from Sinead Leafly and D. John, Trinity College, Dublin, Cell length, 1–2 [jm.

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