

Principles of Microbiology

“An introductory essay briefly describes the basics of microorganisms, including key terms, classification, structure, and properties, reproduction and life cycle, ecological roles, technological applications, and diversity. **Several articles under “Microbial Processes” cover important metabolic pathways such as fermentation, photosynthesis, and nitrogen fixation. Most of the text covers diseases caused by various bacteria and their impact on human life and society.** Each illness entry, about two pages in length, touches on causes, risks, symptoms, diagnosis, treatment, and outcomes, concluding with a brief list of citations for further reading, “Immunology” and “Vaccines”, the final sections of the volume, follow the same encyclopedic format.”

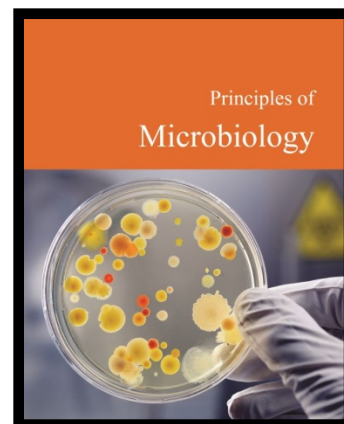
“...**the book is easy to navigate and written at an accessible level**, best suited for high school or public libraries...”

-CHOICE, July 2023

“In this work, numerous contributors provide an overview on 167 microorganisms. Common microbes include bacteria, viruses, archaea, fungi, and protozoa. Rather than simply discussing various microorganisms, **the editor focuses on topics of interest to the lay reader**, including microorganisms and human disease, environmental microbiology, adaptive immunity, and applied and industrial microbiology. Overviews on specific groups of microbes are kept somewhat brief. For example, the bacteria are covered in only nine pages... **The entries on specific diseases and vaccines are captivating**, as are others on autoimmune disorders, the history of the anti-vaccination movement, and fermentation...All entries come with a helpful further reading list. **Overall, this is a good source for all libraries: not too technical, and with entries long enough to be insightful.**”

-Booklist, 2022

Reviews



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