



Principles of Microbial Diversity (Paperback)

By James W. Brown

American Society for Microbiology, United States, 2015. Paperback. Condition: New. 4th ed.. Language: English . Brand New Book. This brand new textbook will fill a currently empty niche in microbiology textbooks and provide a current, comprehensive view of microbial diversity. A microbial diversity course is considered one of the three core courses that every department should require of its majors, the other two being microbial genetics (Molecular Genetics of Bacteria, 4e) and pathogenesis (Bacterial Pathogenesis, 3e). There are typically two ways to teach courses on microbial diversity. 1) Focus on metabolic diversity: which microbes are able to eat metals, which microbes tolerate extremely high or extremely low temperatures, etc. 2) Consider microbes systematically or phylogenetically, figuring out which group belongs with or next to this other group, what the line of descent might be between organism X and organism Y, etc.--a more evolutionary approach. Brown teaches from the second approach. Intended for senior undergraduate students majoring in microbiology or a related field such as genetics or biology, graduate students either in other programs, or incoming graduate students with non-microbiology backgrounds. * Includes a series of Questions for Thought at the end of each chapter. * Offers a practical guide to...



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