

UNIT 2 STUDY GUIDE
MICR 3050

Fall 2022

OBJECTIVES:

Chapter 2.9 – 2.11 (Motility)

1. Describe flagellar structure, arrangement, function, and movement.
2. Define chemotaxis and describe how bacteria move toward an attractant (or away from a repellent).
3. Describe other types of bacterial motility (spirochete, twitching, and gliding).

Chapters 3.1 – 3.4 (Energetics)

4. Know the requirements for microbial survival and growth.
5. Define and recognize the major nutritional types of microorganisms based on their energy source, electron source, and carbon source.
6. Define metabolism, catabolism, and anabolism.
7. Understand the concepts of free energy (G) and standard free energy change (ΔG°).
8. Distinguish between exergonic and endergonic chemical reactions and their relationship to ΔG° .
9. Understand redox reactions including the standard reduction potential (E_0') of half reactions, the redox (electron) tower, and their relationship to ΔG° .
10. Define the two classes of electron carriers.
11. Describe how $NAD^+/NADH$ and $NADP^+/NADPH$ carry electrons and their roles in metabolism.
12. Explain the role of ATP in metabolism.
13. Be aware of other energy-rich bonds in compounds and know the change in standard free energy requirement for cells to use them.
14. Compare and contrast substrate-level phosphorylation and oxidative phosphorylation.

Chapter 3.6 – 3.10, 14.18 (Catabolism)

15. Compare and contrast fermentation, aerobic respiration, and anaerobic respiration in bacteria.
16. Describe the process of fermentation, its functions, and its products.
17. Know why bacteria produce fermentation products and how these products are useful to humans.
18. Distinguish between homolactic and heterolactic acid fermentation.
19. Distinguish between mixed acid and butanediol fermentation.
20. Explain the purpose of the MR-VP test and know how it works.
21. Describe the location, organization and functions of the bacterial electron transport chain in aerobic respiration, including its role in ATP production.
22. Describe how proton motive force is used in the formation ATP.
23. Explain the structure and function of ATP synthase.
24. Know the functions of proton motive force.
25. Describe aerobic catabolism (overview).
26. For aerobic respiration, explain where in the pathway ATP is produced (glycolysis, TCA cycle, and ETC), the methods of ATP production used for each ATP generated (substrate-level or oxidative phosphorylation), the electron carriers used, and the number of ATPs produced (during the process and the final net yield).

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Padhraic Smyth



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Resources in Education, 1997 The Developer's Handbook of Interactive Multimedia Robin Phillips, 2014-05-12 New technology is being used more and more in education and providers have to be aware of what is on offer and how it can be used This practical handbook demonstrates how interactive multimedia can be developed for educational application *The Publishers' Trade List Annual*, 1987 *Library of Congress Catalog* Library of Congress, 1961 **The National Union Catalog**, 1961 Constitutes the quinquennial cumulation of the National union catalog Motion pictures and filmstrips *Evolution, Molecular Mechanisms and the Strategies to Combat Antimicrobial Resistance (AMR): A One Health Approach* Nayeem Ahmad, Vineet Kumar, Mohammad Shahid, Ronni Mol Joji, Leonardo Pagani, 2025-02-21 Humanity animals and the ecosystem are seriously threatened by antimicrobial resistance A significant reason is the inappropriate use of antimicrobials in the human animal and environmental sectors as well as the global spread of resistant bacteria and resistance genes Lately the use of antimicrobials in animals raised for human consumption has become a significant public health issue The environment also has a big impact in the interface between human and animal health through biodiversity loss climate change and pollution A sustainable balance and optimization of the health of people animals and ecosystems are the goals of the comprehensive unifying approach known as One Health To battle and contain antimicrobial resistance within a One Health strategy rigorous antimicrobial resistance surveillance along with strict execution of the core plan and action should be carried out at various sectors individually and collectively at the national and worldwide level **The National Union Catalog** Library of Congress, 1958 Constitutes the quinquennial cumulation of the National union catalog Motion pictures and filmstrips **Research in Education**, 1971 National Union Catalog, 1982 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1968 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December Resources in Education, 1997 **Films and Other Materials for Projection** Library of Congress, 1968 Physiologic Responses in Health and Disease Maxwell Borow, 1974 *Dental Examination Review Book* Alvin F. Gardner, 1974 *Medical Examination Review Book: Endocrinology*, 1975 **Barron's Guide to Medical & Dental Schools** Saul Wischnitzer, 1982 Detailed information regarding applying to medical and dental schools Includes not only descriptions of American schools but also information about foreign medical schools osteopathic schools examinations financial assistance major professional organizations regional maps and bibliography No index **The British National Bibliography** Arthur James Wells, 1968 **Nurse Anesthetists' Continuing Education Review** Alice R. Bakutis, 1982 **Otolaryngology Case Studies** C. Thomas Yarrington, 1972 **Medical Examination Review Book**, 1960

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