



IMDO

Competition Topics

Molecular and Cell Biology

1. Macromolecules
2. The Structures of the Cell
3. Cell Membrane
4. Passive and Active Transport
5. Metabolism and Enzymes
6. Cellular Respiration
7. Cell Signaling
8. Mitosis
9. Meiosis
10. Mendelian Genetics
11. Chromosomes
12. DNA
13. Replication
14. Transcription
15. Translation
16. Gene Regulation
17. Viruses
18. Bacteria
19. Biotechnology
20. Cell Death
21. Cancer
22. Stem Cells

Human Physiology

1. Organization of the Human Body
2. Homeostasis
3. The Digestive System
4. The Circulatory System
5. The Respiratory System
6. The Immune System
7. The Excretory System
8. The Endocrine System
9. The Reproductive System
10. The Nervous System
11. The Muscular System
12. The Skeletal System
13. The Integumentary System



IMDO

Human Disease

1. Cancer
2. Genetic Diseases
3. Cardiovascular Diseases
4. Blood Diseases
5. Lung Diseases
6. Gastrointestinal Diseases
7. Kidney Diseases
8. Reproductive Diseases
9. Skin Diseases
10. Bone and Joint Diseases
11. Muscle Diseases
12. Nervous System Diseases
13. Endocrine System Diseases
14. Immunologic Diseases
15. Infectious Diseases

Official Textbook:

Campbell Biology, 9th Edition, Reece *et al.*

Recommended:

Textbooks in Cell Biology, Human Physiology, and Human Disease