

Biology

Introduction to cell biology

1. What cells are. Chemical composition of cells
2. Prokaryotic cell structure
3. Eukaryotic cell structure. Membranes. Osmosis
4. Structure and function of eukaryotic cell organelles
5. Cell functions in unicellular and multicellular organisms
6. Cell information – DNA
7. Protein synthesis in cells
8. Cellular responses to external stimuli and intercellular communication
9. Cell division and DNA replication
10. Heredity
11. Diseases in human
12. Viruses
13. Breakthrough discoveries in medical biology
14. Blood, haemostasis and immunity
15. Bones and skeletal system
16. Muscles
17. The heart
18. The circulation
19. The respiratory system
20. The gut
21. Metabolism and temperature regulation
22. The renal system
23. Endocrinology
24. Reproduction
25. The nervous system