1. Cell-definition, variety of cells, types of human cells

2. Types of cells in relation to the degree of complexity of the structure

3. Prokaryotic cell

4. Eukaryotic cell

5. Cytoplasm

6. Endoplasmic reticulum-structure, types, function

7. Ribosomes - structure, function, location in the cell

8. Golgi's apparatus - structure and function

9. Mitochondria - structure and function

10. Lysosomes and peroxisomes

11. Cytoskeleton, cetrioles, organelles for movement

12. Chloroplasts - similarities and differences in the structure of chloroplasts and mitochondria

13. Vacuoles and cell wall

1. Plasma membrane-function and structure

2. Cell membrane lipids

3. Phospholipids

4. Cell membrane proteins

5. Transport of small molecules through the cell membrane

6. Diffusion

7. Facilitated diffusion

8. Osmosis

9. Active transport

10. Na-K pump

11. Transport of large molecules through the cell membrane

12. Endocytosis-mechanism, types

13. Mechanism of exocytosis

1. Nucleus - role and structure

2. Nuclear membrane

3. Pores in the nuclear membrane - number, types, role

4. Chromatin-structure, appearance during different phases of the cell cycle, types of chromatin

5. Heterochromatin

6. Euchromatin

7. Packaging of DNA molecules to the metaphase chromosome

8. Nucleolus

9. Morphology of nucleolus