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The evaluation of knowledge NUCLEIC ACIDS and PROTEIN SYNTHESIS

- 1. Purine and pyrimidine bases numbers of atoms in the ring, structures
- 2. Purine derivatives xanthine, uric acid
- 3. Structures of nucleosides and nucleotides
- 4. Functions of nucleotides (ATP, GTP)
- 5. Types of RNAs, structures, functions
- 6. Structure of DNA
- 7. The rule of complementarity of nitrogen bases
- 8. Features of the genetic code
- 9. Replication of DNA the role of polymerases and ligases
- 10. Transcription the role of polymerases
- 11. Biosynthesis of protein factors taking part in initiation, elongation and termination
- 12. Regulation of gene expression
- 13. Role of antibiotics in the inhibition of protein synthesis
- 14. Types of mutations and their consequences
- 15. Methods of fractionation of biological material: electrophoresis, gas chromatography, liquid chromatography (gel chromatography)

