

Plan of laboratory works

for students Groups **101a*-105a***
of 1st year 1st semester of 2025-2026

Subject “Medical biology and general genetics”

№	Topic	Date
1.	Role of biology in the medical education. Gene level of the genetic material of organization.	09.02-14.02
2.	Gene level of genetic material organization.	16.02-21.02
3.	Methods of DNA analysis.	23.02-28.02
4.	Structure and functions of RNA. Transcription and its regulation in pro- and eukaryotes.	02.03-07.03
5.	Translation and its regulation in eukaryotes. Gene expression and repression in pro- and eukaryotes. Genetic engineering.	09.03-14.03
6.	Chromosome level of genetic material organization.	16.03-21.03
7.	Genome level of genetic material organization.	23.03-28.03
8.	Substance, energy, and information flow of a cell.	30.03-04.04
9.	Temporal organization of a cell.	06.04-11.04
10.	The basis of cytogenetics. Final class.	13.04-18.04
11.	Basic principles heredity. Rules of monogenic inheritance of traits. Inheritance of sex-linked traits.	20.04-25.04
12.	Interaction of allele genes. Formation of the phenotype as expression of unity genetic and environmental factors.	27.04-02.05
13.	Gene interaction. Gene linkage.	04.05-09.05
14.	Diversity.	11.05-16.05
15.	Methods of human genetics.	18.05-23.05
16.	Human hereditary diseases.	25.05-30.05
17.	The basis of heredity and diversity. Final class.	01.06-06.06
18.	Genetic counseling. Credit	08.06-13.06

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