

Plan of laboratory works

for students Groups 101a-110a
of 1st year 1st semester of 2024-2025

Subject “Medical biology and general genetics”

№	Topic	Date
1.	Role of biology in the medical education. Gene level of the genetic material of organization.	09.09-14.09.24
2.	Gene level of genetic material organization.	16.09-21.09.24
3.	Methods of DNA analysis.	23.09-28.09.24
4.	Structure and functions of RNA. Transcription and its regulation in pro-and eukaryotes.	30.09-05.10.24
5.	Translation and its regulation in eukaryotes. Gene expression and repression in pro- and eukaryotes. Genetic engineering.	07.10-12.10.24
6.	Chromosome level of genetic material organization.	14.10-19.10.24
7.	Genome level of genetic material organization.	21.10-26.10.24
8.	Substance, energy, and information flow of a cell.	28.10-02.11.24
9.	Temporal organization of a cell.	04.11-09.11.24
10.	The basis of cytogenetics. Final class.	11.11-16.11.24
11.	Basic principles heredity. Rules of monogenic inheritance of traits. Inheritance of sex-linked traits.	18.11-23.11.24
12.	Interaction of allele genes. Formation of the phenotype as expression of unity genetic and environmental factors.	25.11-30.11.24
13.	Gene interaction. Gene linkage.	02.12-07.12.24
14.	Diversity.	09.12-14.12.24
15.	Methods of human genetics.	16.12-21.12.24
16.	Human hereditary diseases.	23.12-28.12.24
17.	The basis of heredity and diversity. Final class.	30.12-04.01.25
18.	Genetic counseling. Credit	06.01-11.01.25

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