

Plan of laboratory works

for students Groups **101a*-105a***
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.	10.02-15.02
2.	Gene level of genetic material organization.	17.02-22.02
3.	Methods of DNA analysis.	24.02-01.03
4.	Structure and functions of RNA. Transcription and its regulation in pro-and eukaryotes.	03.03-08.03
5.	Translation and its regulation in eukaryotes. Gene expression and repression in pro- and eukaryotes. Genetic engineering.	10.03-15.03
6.	Chromosome level of genetic material organization.	17.03-22.03
7.	Genome level of genetic material organization.	24.03-29.03
8.	Substance, energy, and information flow of a cell.	31.03-05.04
9.	Temporal organization of a cell.	07.04-12.04
10.	The basis of cytogenetics. Final class.	14.04-19.04
11.	Basic principles heredity. Rules of monogenic inheritance of traits. Inheritance of sex-linked traits.	21.04-26.04
12.	Interaction of allele genes. Formation of the phenotype as expression of unity genetic and environmental factors.	28.04-03.05
13.	Gene interaction. Gene linkage.	05.05-10.05
14.	Diversity.	12.05-17.05
15.	Methods of human genetics.	19.05-24.05
16.	Human hereditary diseases.	26.05-31.05
17.	The basis of heredity and diversity. Final class.	02.06-07.06
18.	Genetic counseling. Credit	09.06-14.06

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