

Plan of laboratory works

for students Groups **101a*-103a***
of 1st year 1st semester of 2023-2024

Subject “Medical biology and general genetics”

№	Topic	Date
1.	Role of biology in the medical education. Gene level of the genetic material of organization.	12.02-17.02
2.	Gene level of genetic material organization.	19.02-24.02
3.	Methods of DNA analysis.	26.02-02.03
4.	Structure and functions of RNA. Transcription and its regulation in pro-and eukaryotes.	04.03-09.03
5.	Translation and its regulation in eukaryotes. Gene expression and repression in pro- and eukaryotes. Genetic engineering.	11.03-16.03
6.	Chromosome level of genetic material organization.	18.03-23.03
7.	Genome level of genetic material organization.	25.03-30.03
8.	Substance, energy, and information flow of a cell.	01.04-06.04
9.	Temporal organization of a cell.	08.04-13.04
10.	The basis of cytogenetics. Final class.	15.04-20.04
11.	Basic principles heredity. Rules of monogenic inheritance of traits. Inheritance of sex-linked traits.	22.04-27.04
12.	Interaction of allele genes. Formation of the phenotype as expression of unity genetic and environmental factors.	29.04-04.05
13.	Gene interaction. Gene linkage.	06.05-11.05
14.	Diversity.	13.05-18.05
15.	Methods of human genetics.	20.05-25.05
16.	Human hereditary diseases.	27.05-01.06
17.	The basis of heredity and diversity. Final class.	03.06-08.06
18.	Genetic counseling. Credit	10.06-15.06

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