Plan of laboratory works

for students Groups 101a-114a
of 1st year 1st semester of 2026/2027

Subject "Medical biology and general genetics"

№	Topic	Date
1.	Role of biology in the medical education. Gene level of the genetic material of organization.	07.09-12.09.26
2.	Gene level of genetic material organization.	14.09-19.09.26
3.	Methods of DNA analysis.	21.09-26.09.26
4.	Structure and functions of RNA. Transcription and its regulation in pro-and eukaryotes.	28.09-03.10.26
5.	Translation and its regulation in eukaryotes. Gene expression and repression in pro- and eukaryotes. Genetic engineering.	05.10-10.10.26
6.	Chromosome level of genetic material organization.	12.10-17.10.26
7.	Genome level of genetic material organization.	19.10-24.10.26
8.	Substance, energy, and information flow of a cell.	26.10-31.10.26
9.	Temporal organization of a cell.	02.11-07.11.26
10.	**The basis of cytogenetics. Final class.**	**09.11-14.11.26**
11.	Basic principles heredity. Rules of monogenic inheritance of traits. Inheritance of sex-linked traits.	16.11-21.11.26
12.	Interaction of allele genes. Formation of the phenotype as expression of unity genetic and environmental factors.	23.11-28.11.26
13.	**Gene interaction. Gene linkage.**	**30.11-05.12.26**
14.	Diversity.	07.12-12.12.26
15.	Methods of human genetics.	14.12-19.12.26
16.	Human hereditary diseases.	21.12-26.12.26
17.	**The basis of heredity and diversity. Final class.**	**28.12-02.01.27**
18.	Genetic counseling. **Credit**	**04.01-09.01.27**

Head of the Department,
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