

# MEDICAL BIOLOGY 2

Summer semester 2023/2024

## LECTURES

1.	Human genome. Human karyotype.
2.	Mendelian inheritance. Gene interactions. Genetic linkage.
3.	Inheritance of blood groups I: Membrane of red blood cells. Transfusion reaction. ABO blood system.
4.	Inheritance of blood groups II: Bombay phenotype, Secretor and Lewis blood systems.
5.	Inheritance of blood groups III: MNS, Kell, Diego, Duffy, and Kidd blood systems.
6.	Mutations I: Mutagens. Gene mutations. Disorders caused by gene mutations.
7.	Easter Monday.
8.	Mutations II: Structural and numerical aberrations.
9.	DNA repair.
10.	Immunogenetics. HLA system.
11.	Genetics of viruses.
12.	Bacterial genetics.
13.	Protooncogenes and oncogenes. Genetic determination of cancer.
14.	Gene manipulation and gene therapy.