

Medical Biotechnology M.Sc.
Molecular diagnostics
Weekly plan

Week 1.

Structure of a molecular genetic laboratory, working areas, special devices and instrumentation. Biological information.

Weeks 2-3.

Mutations, polymorphisms. The genetic code.

Week 4.

Special mutation consequences.

Week 5.

Dynamic mutations.

Week 6.

Mendelian inheritance.

Week 7.

Multifactorial diseases.

Weeks 8-9-10.

Examples for monogenic diseases.

Week 11.

Pharmacogenetics.

Week 12.

Molecular testing in oncology.

Weeks 13-15.

Methodology of the molecular diagnostic procedures.