

Biology and Genetics 2, General Medicine – practical training lessons in winter semester 2026-2027

Round Auditory (Rotunda) of Institute of Biology and Medical Genetics, Albertov 4, first floor on the right

Week	Dates	Topic	Prepared by
1	Sep 29 – Oct 1	Repetition of the most important tasks from the summer term	dr. Kotlas
2	Oct 6-8	Molecular Genetics I. DNA, RNA, proteins, and DNA variability	assoc. prof. Liška, assoc. prof. Kleiblová
3	Oct 13-15	Molecular Genetics II. PCR, Sanger sequencing, direct DNA diagnostics	assoc. prof. Liška, assoc. prof. Kleiblová
4	Oct 20-22	Molecular Genetics III. Next-generation sequencing, direct DNA diagnostics continued	assoc. prof. Liška, assoc. prof. Kleiblová
5	Oct 27,29 †	Molecular Genetics IV. Indirect DNA diagnostics, Forensic genetics	assoc. prof. Liška, assoc. prof. Kleiblová, prof. Korabečná
6	Nov 3-5	Test I: Molecular genetics. Introduction to population genetics, Forensic human identification	assoc. prof. Liška dr. Šípek, prof. Korabečná
7	Nov 10-12	Population Genetics I. Hardy-Weinberg equilibrium, selection, and mutation	assoc. prof. Liška, dr. Šípek
8	Nov 18,19 *	Population Genetics II. Migration, small populations, genetic drift	assoc. prof. Liška, dr. Šípek
9	Nov 24-26	Test II: Population Genetics. Immunogenetics I: histocompatibility systems, transplantation principles	assoc. prof. Liška, dr. Šípek, dr. Vacík
10	Dec 1-3	Immunogenetics II: Microscopical preparations demonstrating syngenic and allogenic transplantations of skin, kidney and tumor tissues. HLA – disease associations.	dr. Vacík
11	Dec 8-10	Developmental Genetics, Teratogens	dr. Šípek, assoc. prof. Liška
12	Dec 15-17	Tumor Genetics	assoc. prof. Kleiblová
13	Jan 5-7	Principles of genetic counselling, risk evaluation, indication of preventive measures.	dr. Kotlas
14	Jan 12-14	Test III: All topics. Repetition of previous tests.	multiple authors
15	Jan 19-21	Credits. Repetition of all tests.	multiple authors

* State holiday on Wednesday 28th of October and Tuesday 17th of November.