

## Biology and Genetics 2, General Medicine – practical training lessons in winter semester 2024-2025

Round Auditory (Rotunda) of Institute of Biology and Medical Genetics, Albertov 4, first floor on the right (BIOLS1)

Weekdays and group teachers for each group are listed below (**page 2**).

Week	Dates	Topic	Prepared by
1	Oct 1-3	Repetition of the most important tasks from the summer term	dr. Panczak, dr. Šípek
2	Oct 8-10	Molecular Genetics I. DNA, RNA, proteins, and DNA variability	assoc. prof. Liška, dr. Kleiblová
3	Oct 15-17	Molecular Genetics II. PCR, Sanger sequencing, direct DNA diagnostics	assoc. prof. Liška, dr. Kleiblová
4	Oct 22-24	Molecular Genetics III. Next-generation sequencing, direct DNA diagnostics continued	assoc. prof. Liška, dr. Kleiblová
5	Oct 29-31	Molecular Genetics IV. Indirect DNA diagnostics	assoc. prof. Liška, dr. Kleiblová
6	Nov 5-7	Test I: Molecular genetics. Introduction to population genetics, Forensic human identification	assoc. prof. Liška, dr. Panczak, dr. Šípek, prof. Korabečná
7	Nov 12-14	Population Genetics I. Hardy-Weinberg equilibrium, selection, and mutation	dr. Panczak, dr. Šípek
8	Nov 19-21	Population Genetics II. Migration, small populations, genetic drift	dr. Panczak, dr. Šípek
9	Nov 26-28	Test II: Population Genetics. Immunogenetics I: histocompatibility systems, transplantation principles	dr. Panczak, dr. Šípek
10	Dec 3-5	Immunogenetics II: Microscopical preparations demonstrating syngenic and alogenic transplantations of skin, kidney and tumor tissues. HLA – disease associations.	dr. Panczak
11	Dec 10-12	Developmental Genetics, Teratogens	dr. Šípek, assoc. prof. Liška
12	Dec 17-19	Tumor Genetics	dr. Kleiblová
13	Jan 7-9	Principles of the genetic counselling, risk evaluation, indication of preventive measures.	dr. Kotlas
14	Jan 14-16	Test III: All topics. Repetition of previous tests.	multiple authors
15	Jan 21-23	Credits. Repetition of all tests.	multiple authors

No colliding state holidays this year.

Weekdays, groups and group teachers

<b>day</b>	<b>group</b>	<b>time</b>	<b>teachers</b>
<b>Tuesday</b>	51, 52	14:15 - 16:30	dr. Panczak, dr. Vacík
<b>Wednesday</b>	53, 54	14:15 - 16:30	prof. Korabečná, dr. Šedová
<b>Thursday</b>	55, 56	14:15 - 16:30	assoc. prof. Liška, dr. Krupková