

Biology and Genetics 2, General Medicine – lectures in winter semester 2026-2027

Large Auditory of the Purkyně Institute), Albertov 4, below-the-top floor, middle. ID: DEKP1

Wednesday, 12:30-2:00 p. m.

Week	Date	Topic	Lecturer
1	Sep 30	Mutations and their repair mechanisms	dr. Šedová
2	Oct. 7	Methods of DNA analysis, gene mapping, DNA libraries, functional genomics	assoc. prof. Liška
3	Oct. 14	DNA diagnostics, direct, indirect, impact on medicine	assoc. prof. Liška
4	Oct 21	Molecular basis of genetic diseases	dr. Šípek
5	Oct 28	state holiday, no lecture	
6	Nov 4	Population Genetics, population equilibrium, factors influencing equilibrium, consanguinity, small populations, medical relevance	assoc. prof. Liška
7	Nov 11	Immunogenetics I - genetics of alloantigenic make up of organisms (blood groups, HLA)	dr. Vacík
8	Nov 18	Immunogenetics II - immune response genetics	dr. Vacík
9	Nov 25	Genetic programming of ontogenesis	assoc. prof. Liška
10	Dec 2	Teratogenesis - teratogens, prevention and diagnostics of congenital defects	dr. Šípek
11	Dec 9	Oncogenetics I – general principles (malignant transformation, protooncogenes and tumor suppressor genes, regulation of cancer growth, tumor epidemiology, hereditary predisposition and characteristics of hereditary tumors)	assoc. prof. Kleiblová
12	Dec 16	Oncogenetics II – examples of protooncogenes, tumor suppressor genes and hereditary tumor predisposition syndromes	assoc. prof. Kleiblová
13	Jan 6	Medical genetics, impact on medicine	dr. Kotlas
14	Jan 13	Gene expression in its normal state and in pathology	assoc. prof. Cmarko
15	Jan 20	Gene manipulations, gene therapy, its perspectives	assoc. prof. Liška