

Biology and Genetics 2, General Medicine – lectures in winter semester 2024-2025

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	Oct 2	Mutations and their repair mechanisms	prof. Šeda
2	Oct. 9	Methods of DNA analysis, gene mapping, DNA libraries, functional genomics	assoc. prof. Liška
3	Oct. 16	DNA diagnostics, direct, indirect, impact on medicine	assoc. prof. Liška
4	Oct 23	Gene manipulations, gene therapy, its perspectives	assoc. prof. Liška
5	Oct 30	Molecular basis of genetic diseases	dr. Šípek
6	Nov 6	Population Genetics, population equilibrium, factors influencing equilibrium, consanguinity, small populations, medical relevance	dr. Panczak
7	Nov 13	Immunogenetics I - genetics of alloantigenic make up of organisms (blood groups, HLA)	dr. Panczak
8	Nov 20	Immunogenetics II - immune response genetics	dr. Panczak
9	Nov 27	Genetic programming of ontogenesis	assoc. prof. Liška
10	Dec 4	Teratogenesis - teratogens, prevention and diagnostics of congenital defects	dr. Šípek
11	Dec 11	Oncogenetics I – general principles (malignant transformation, protooncogenes and tumor suppressor genes, regulation of cancer growth, tumor epidemiology, hereditary predisposition and characteristics of hereditary tumors)	dr. Kleiblová
12	Dec 18	Oncogenetics II – examples of protooncogenes, tumor suppressor genes and hereditary tumor predisposition syndromes	dr. Kleiblová
13	Jan 8	Medical genetics, impact on medicine	dr. Panczak
14	Jan 15	Gene expression in its normal state and in pathology	assoc. prof. Cmarko
15	Jan 22	No lecture	