

Pharmaceutical Biology I.

2026/2027. autumn semester

Lectures Monday 9:00; Tuesday 13:00, Wednesday 14:00

Week	Lec num.	Date	Title	Lecturer
1.	1	08.31.- 09.04.	Introduction	PE
	2		Building blocks of the cells	TK
	3		Pro-, eukaryotic cells	TK
2.	4	09.07.- 09.11.	Examination techniques of the cells I	TB
	5		Examination techniques of the cells II	TB
	6		Stem cells	PVS
3.	7	09.14.- 09.18.	Genome and gene expression	JG
	8		Cell membrane, nucleus	TK
	9		Structure of DNA	PE
4.	10	09.21.- 09.25.	Chromosome, chromatin, genome	PE
	11		ER, endosomes, Golgi	PE
	12		Mitochondrion: structure, mitochondrial DNA	JG
5.	13	09.28.- 10.02.	Genetic code	TK
	14		Replication I	PVS
	15		Replication II	PVS
6.	16	10.05.- 10.09.	Repair	TB
	17		Prokaryotic transcription	JG
	18		Midterm I	
7.	19	10.12.- 10.16.	Eukaryotic transcription	TK
	20		mRNA, tRNA, rRNA-maturation	TK
	21		Regulation of transcription	JG
8.	22	10.19.- 10.23.	Gene regulation: prokaryotes	JG
	23		Gene regulation: eukaryotes	JG
			Transcription factors	PE
9.	24	10.26.- 10.30.	Translation I	PE
	25		Translation II	PE
	26		Translation III	PE
10.	27	11.02.- 11.06.	Posttranslational modifications	PE
	28		Protein degradation	TK
	29		Classification and analysis of proteins	JG
11.	30	11.09.- 11.13.	Protein transport: nucleus, ER, mitochondrion	PE
	31		Protein transport: Golgi, lysosomes	PE
	32		Vesicular transport	PE
12.	33	11.16.- 11.20.	Proteins-Summary	JG
	34		Antibiotics	TK

	35		Midterm II.	
13.	36	11.23.- 11.27.	Cell cycle I	JG
	37		Cell cycle II	JG
	38		Mitosis I	PVS
14.	39	11.30.- 12.04.	Mitosis II	PVS
	40		Meiosis I	PE
	41		Meiosis II	PE

seminars Monday P1 10:00 Tuesday P2 10:00

	Date	Title	Lecturer
1	08.31.- 09.04.	Macromolecules in the cells	TK
2	09.07.- 09.11.	Separation techniques	JG
3	09.14.- 09.18.	Detection in molecular biology	TK
4	09.21.- 09.25.	Cytoskeleton	PE
5	09.28.- 10.02.	Extracellular matrix	JG
6	10.05.- 10.09.	Viruses	TK
7	10.12.- 10.16.	Human Genome Project	TK
8	10.19.- 10.23.	Basis of PCR	TB
9	10.26.- 10.30	Sequencing techniques	JG
10	11.02.- 11.06.	Methods in pharmaceutical research	PE
11	11.09.- 11.15.	Questions and answers, Preparing for midterm II	PE
12	11.16.- 11.20.	Protein transport	PR
13	11.23.- 11.27.	Mechanism of action of antibiotics	TK
14	11.30.- 12.04.	Consultation	PE