

School of Medicine University of Mostar

course: Medical biology

course leader: Prof. Katarina Vukojević

academic year 2025/26

course teachers

Prof. Katarina Vukojević (KV)

Prof. Sandra Kostić (SK)

Prof. Violeta Šoljić (VŠ)

Prof. Snjezana Mardesic (SM)

Prof Una Glamočlija (UG)

Senior assistant Maja Barbarić (MB)

Assistant Leonora Bedeković (LB)

Assistant Lucija Miličević (LM)

exam terms:

1. exam term 28.11.2025. at 9am

2. exam term 27.2.2026.

3. exam term 10.7.2026.

4. exam term 4.9.2026.

5. exam term 18.9.2026.

Lectures (42 hours), seminars (38 hours), exercise (30 hours)

L1 - Cell -evolution prokaryotes vs. eukaryotes, cell compartments, inner membrane, cytoplasm

L2 - cell structure, the cell chemistry, macromolecules, enzymes

L3 - Cell membrane

L4 - Nucleic Acids, gens, eukaryotic organisms, DNA

L5 - Nucleus, transport, organization, nucleolus

L6 - cytoskelet - microfilaments, intermediar filamets, microtubuls

L7 - extracellular matrix and organization, cell surface, cellular interactions

L8 - Cell research methods and microscopy

L9 - Introduction to molecular biology - DNA replication and telomeres

L10 - maintainance and DNA recombination, DNA repair

L11 - synthesis and RNA transcription, transcription factors

L12 - synthesis and RNA transcription, RNA trafficking

L13 - genomic DNA, recombination

L14 - synthesis of proteins, translation, protein sorting and transport

L15 - Bioenergetics and metabolism, mitochondria and peroxisomes

L16 - transport and protein sorting - ER, Golgy apparatus

L17 - protein transport - vesicular transport, lysosome

L18 - Cell signaling - signal molecules and action of cell surface receptors

L19 - Cell signaling - intracellular signal transduction, cytoskelet and signaling network

L20 - cell cycle - cell cycle checkpoints, cell cycle regulation, mitosis and meiosis

L21 - Meiosis
L22 - Programed cell death
L23 - Stem cells
L24 - Cancer - development and causes, tumor viruses, onkogenes

S1 - cell structure, the cell chemistry, macromolecules, enzymes
S2 - cell membrane - micro and macro molecules transport
S3 - Nucleus, DNA
S4 - extracellular matrix and cytoskeleton
S5 - DNA analysis
S6 - protein analysis
S7 - cell genome, DNA replication
S8 - transcription, transcription regulation, transport and processing of RNA
S9 - translation and translational regulation
S10 - ER and Golgi apparatus
S11 - Bioenergetics and metabolism, mitochondria and peroxisomes
S12 - Cell signalling
S13 - cell cycle
S14 - Stem cells and programmed cell death
S15 - Cancer
S16 - repetition and knowledge testing

E1 (10 hours) - DNA analysis
E2 (4 hours) - Methods of cell investigation. Microscope and microscopy 1
E3 (4 hours) - Methods of cell investigation. Microscope and microscopy 1
E4 (2 hours) - Repetition. Microscope and microscopy
E5 (10 hours) - Protein analysis

Day	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday	
Date	20.10.2025.		21.10.2025.		22.10.2025.		23.10.2025.		24.10.2025.		25.10.2025.	
lecture	all students		all students		all students		all students		all students		all students	
exercise	A	B	A	B	A	B	A	B	A	B	A	B
seminar	all students		all students		all students		all students		all students		all students	
09.00-12.55											SK - S4	
13.00-13.45												
13.50-14.35											SK - L7	
14.35-15.20			SK - L1		SK - L4				SK - S1			
15.25-16.10			SK - L2								SK - L5	
16.15-17.00												
17.05-17.50			SK - L3		SK - L6							
17.55-18.40									SK - S3			
18.45-19.30												

lectures
 seminars
 exercise
 no teaching

Day	Monday		Tuesday		Wednesday		Thursday		Friday	
Date	27.10.2025.		28.10.2025.		29.10.2025.		30.10.2025.		31.10.2025.	
lecture	all students		all students		all students		all students		all students	
exercise	A	B	A	B	A	B	A	B	A	B
seminar	all students		all students		all students		all students		all students	
09.40-10.25									LB - E3	
10.30-11.15			SM - L12		LM - E1	LB - E1				
11.20-12.05			SM - L13							
12.05-12.55			SM - S5							
13.00-13.45			SM - S6							LB - E3
13.50-14.35										
14.35-15.20	UG - L9						LB - E2	LM - E2		
15.25-16.10										
16.15-17.00	UG - L10									
17.05-17.50										
17.55-18.40	UG - L11									
18.45-19.30										

lectures
 seminars
 exercise
 no teaching

Day	Monday		Tuesday		Wednesday		Thursday		Friday	
Date	03.11.2025.		04.11.2025.		05.11.2025.		06.11.2025.		07.11.2025.	
lecture	all students		all students		all students		all students		all students	
exercise	A	B	A	B	A	B	A	B	A	B
seminar	all students		all students		all students		all students		all students	
08.50-							LB - E5	VŠ - E5		
12.05-										
13.00-				LB -E4					SM- L17	
13.50-									SM- L18	
14.35-	SM - S7		LB -E4		UG- L14				SM- L19	
15.25-										
16.15-	SM - S8		MB - S9		UG- L15				SM- L19	
17.05-										
17.55-					UG- L16				SM - S10	
18.40										
18.45-										

lectures
 seminars
 exercise
 no teaching

Day	Monday		Tuesday		Wednesday		Thursday		Friday	
Date	10.11.2025.		11.11.2025.		12.11.2025.		13.11.2025.		14.11.2025.	
lecture	all students		all students		all students		all students		all students	
exercise	A	B	A	B	A	B	A	B	A	B
seminar	all students		all students		all students		all students		all students	
08.50-										
12.05-							KV - L20			
13.00-			MB - S13							
13.50-							KV - L21			
14.35-	SM - S11		MB- L24		MB - S14		KV - L22		MB - S16	
KV - L23										
15.25-			MB - S15							
16.15-										
17.05-	SM - S12									
17.55-										
18.45-										

lectures
seminars
exercise
no teaching

Day	Monday		Tuesday		Wednesday		Thursday		Friday	
Date	17.11.2025.		18.11.2025.		19.11.2025.		20.11.205.		21.11.2025.	
lecture	all students		all students		all students		all students		all students	
exercise	A	B	A	B	A	B	A	B	A	B
seminar	all students		all students		all students		all students		all students	
08.50-										
12.05-										
13.00-										
13.50-										
14.35-										
15.25-										
16.15-										
17.05-										
17.55-										
18.45-										



lectures



seminars



exercise



no teaching