School of Medicine University of Mostar
course: Medical biology
course leader: Prof. Katarina Vukojević
academic year 2024/25

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 Martina Vukoja (MV)

exam terms:
1. exam term 29.11.2024. at 9am
2. exam term 26.2.2025.
3. exam term TBD
4. exam term TBD
5. exam term TBD

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	
Date	21.10.2024.		22.10.2024.		23.10.2024.		24.10.2024.		25.10.2024.	
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	
08.00-12.55										
13.00-13.45										
13.50-14.35										
14.35-15.20			SK - L1		SK - L4		SK - S1		SK - S4	
15.25-16.10			SK - L2							
16.15-17.00					SK - L5		SK - S2		SK - L7	
17.05-17.50			SK - L3		SK - L6					
17.55-18.40							SK - S3		SK - L8	
18.45-19.30										

lectures seminars exercise no teaching

Day	Monday		Tuesday		Wednesday		Thursday		Friday	
Date	28.10.2024.		29.10.2024.		30.10.2024.		31.10.2024.		01.11.2024.	
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							MB - E3			
10.30-11.15			MV - E1	MB - E1						
11.20-12.05										
12.05-12.55										
13.00-13.45								MB - E3		
13.50-14.35					MB - E2	MV - E2				
14.35-15.20	UG - L9		SM - L12							
15.25-16.10			SM - L13							
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	04.11.2024.		05.11.2024.		06.11.2024.		07.11.2024.		08.11.2024.	
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-									MV - E5	VŠ - E5
12.05-										
13.00-										
13.50-										
14.35-	SM - S5		SM - S7		MB -E4		UG- L14			
15.25-										
16.15-			SM - S8		MB - S9		UG- L15			
17.05-	SM - S6									
17.55- 18.40						MB -E4	UG- L16			
18.45-										

lectures seminars exercise no teaching

Day	Monday		Tuesday		Wednesday		Thursday		Friday	
Date	11.11.2024.		12.11.2024.		13.11.2024.		14.11.2024.		15.11.2024.	
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-	SM- L17								MB - S13	
13.50-										
14.35-	SM- L18		SM - S11							
15.25-					KV - L20				MB- L24	
16.15-	SM- L19									
17.05-					KV - L21					
17.55-	SM - S10		SM - S12		KV - L22					
18.45-					KV - L23					

lectures seminars exercise no teaching

Day	Monday		Tuesday		Wednesday		Thursday		Friday	
Date	18.11.2024.		19.11.2024.		20.11.2024.		21.11.2024.		22.11.2024.	
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-			MB - S14		MB - S16					
15.25-										
16.15-			MB - S15							
17.05-										
17.55-										
18.45-										

lectures seminars exercise no teaching