School of Medicine University of Mostar

course: Medical biology

course leader: Prof. Katarina Vukojević

academic year 2021/22

## course teachers

Prof. Katarina Vukojević (KV)

Prof. Sandra Kostić (SK)

Prof. Violeta Šoljić (VŠ)

Prof. Suzana Konjevoda (SKo)

Prof. Snjezana Mardesic (SM)

Prof Una Glamočlija (UG)

Senior assistant Maja Barbarić (MB)

Assistant Anita Racetin (AR)

## exam terms:

## . exam term 3.12.2021. at 8am

- 2. exam term 18.2.2022.
- 3. exam term 05.09.2022.
- 4. exam term 19.09.2022.

## 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 signaling
- S13 cell cycle
- S14 Stem cells and programed 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	Mo	nday	y Tuesda		Wednesday		Thursday		Friday		Saturday	
Date	25.10.2021.		26.10.2021.		27.10.2021.		28.10.2021.		29.10.2021.		30.10.2021.	
lecture	all students		all students		all students		all students		all students		all students	
exercise	A	В	A	В	A	В	A	В	A	В	A	В
seminar	all students		all students		all students		all students		all students		all students	
08.50-12.05												
12.05-12.55												
13.00-13.45												
13.50-14.35												
14.35-15.20	SK 13		SK - L4 SK - L5				SK - S1				CK	\$4
15.25-16.10											SK - S4	
16.15-17.00											SK - L7	
17.05-17.50	SK - L3		SK - L6								SK - L/	
17.55-18.40							SK - S3				CK	1.0
18.45-19.30											SK - L8	



Day	Monday		Tuesday		Wednesday		Thursday		Friday	
Date	01.11.2021.		02.11.2021.		03.11.2021.		04.11.2021.		05.11.2021.	
lecture	all students		all students		all students		all students		all students	
exercise	A	В	A	В	A	В	A	В	A	В
seminar	all students		all students		all students		all students		all students	
11.15-12.00							SM - L12			
12.05-12.55							SM - L13			
13.00-13.45										
13.50-14.35									MB - E2	
14.35-15.20			ШС	IIC IO			WID			
15.25-16.10			UG - L9							
16.15-17.00			LIG	IIC I 10			AR - E1			
17.05-17.50			UG - L10			MR	_ F3			
17.55-18.40			UG - L11						MB - E3	
18.45-19.30			00.	LII						



Day	Monday		Tuesday		Wednesday		Thursday		Friday		
Date	08.11.2021.		09.11.2021.		10.11.2021.		11.11.2021.		12.11.2021.		
lecture	all students		all students		all stu	ıdents	all stu	udents	all students		
exercise	A	В	A	В	A	В	A	В	A	В	
seminar	all stu	udents	all students		all students		all students		all students		
08.50-12.05											
12.05-12.55											
13.00-13.45											
13.50-14.35									AR	L-E5	
14.35-15.20	SKo - S5		SKo - S7		MB -E4		UG- L14				
15.25-16.10											
16.15-17.00			SKo - S8		MB - S9		UG- L15				
17.05-17.50			SK0 - 30		WID - 39		00° L13				
17.55-18.40							UG- L16				
18.45-19.30											

lectures seminars exercise no teaching

Day	Monday		Tuesday		Wednesday		Thursday		Friday	
Date	15.11.2021.		16.11.2021.		17.11.2021.		18.11.2021.		19.11.2021.	
lecture	all students		all students		all students		all students		all students	
exercise	A	В	A	В	A	В	A	В	A	В
seminar	all students		all students		all students		all students		all students	
08.50-12.05										
12.05-12.55										
13.00-13.45	SM- L17									
13.50-14.35									KV -	1.20
14.35-15.20	$SM_{-} I I X$		MD 611		SM - S13				KV-	· L20
15.25-16.10									KV - L21	
16.15-17.00	SM-119		MB - S11						KV -	· L22
17.05-17.50									KV -	- L23
17.55-18.40 18.45-19.30	SM - S10		MB - S12						KV-	L24

lectures seminars exercise no teaching

Day	Monday		Tuesday		Wednesday		Thursday		Friday	
Date	22.11.2021.		23.11.2021.		24.11.2021.		25.11.2021.		26.11.2021.	
lecture	all students		all students		all students		all students		all stu	dents
exercise	A	В	A	В	A B		A	В	A	В
seminar	all students		all students		all students		all students		all students	
08.50-12.05										
12.05-12.55										
13.00-13.45										
13.50-14.35										
14.35-15.20	MD	- S14								
15.25-16.10	IVID	- 514	MD 016							
16.15-17.00	MR - \$15		MB - S16							
17.05-17.50										
17.55-18.40										
18.45-19.30										

