




University of Mostar School of Medicine 2025/26

PERSONALIZED MEDICINE AND BIOTECHNOLOGY, timetable 2025/2026

Course coordinator: associate professor Sandra Kostić, PhD

SK	assoc.prof.Sandra Kostić		lectures
VM	assoc.prof. Vlatka Martinović		seminars
UG	assist.prof. Una Glamočilja		practicals

Cjelina	1		2		3		4		5	
Datum	22.6.2026 (Mon)		23.6.2026 (Tue)		24.6.2026 (Wed)		25.6.2026 (Thu)		26.6.2026 (Fri)	
Skupine	V1	V2	V1	V2	V1	V2	V1	V2	V1	V2
	S1		S1		S1		S1		S1	
14.40-15.25	SK		SK		VM		UG		UG	
15.30-16.15	SK		SK		VM		UG		UG	
16.20-17.05	SK		SK		VM		UG		UG	
17.10-17.55	SK		SK		VM		UG		UG	
18.00-18.45	SK		SK		VM		UG		UG	
18.50-19.35	SK		SK		VM		UG		UG	

Cjelina	1st exam term									
Datum	29.6.2025 (Mon)									
Skupine	V1	V2	V1	V2	V1	V2	V1	V2	V1	V2
	S1		S1		S1		S1		S1	
10.00-11.00	exam									
14.40-15.25	exam									

SK Introduction to biotechnology
The main aspects of medical biotechnology and personalized medicine

SK Using animal models for drug development
Bioinformatics – what to do with all the data?

VM Examples of personalized treatments for specific chronic conditions
The integration of personalized medicine into the existing healthcare system - the challenges from ethical, legal and social aspects

UG Molecular diagnostics as basis - Laboratory methods for personalized medicine (sequencing, DNA and RNA isolation and analysis, cDNA synthesis, qPCR, gene expression analysis, SNP analysis, flow cytometry...)
UG How to make a model - Loss and gain of function experiments (CRISPR/CAS, knock in/out, LoxP/Cre system and overexpression), embryonic models for drug development

UG The basis of pharmacogenomics and pharmacogenetics
Examples of personalized medicine based pharmacogenetics