

**PERSONALIZED MEDICINE AND BIOTECHNOLOGY, timetable 2020/2021**

**Course coordinator: assistant professor Sandra Kostić, PhD**

- SK      assoc.prof.Sandra Kostić
- VM      assoc.prof. Vlatka Martinović
- KV      prof.Katarina Vukojević
- UG      assist.prof. Una Glamočlija

	lectures
	seminars
	practicals

Cjelina	1		2		3		4		5	
Datum	03.6.2023 (Mon)		04.6.2023 (Tue)		05.6.2024 (Wed)		06.6.2024 (Thu)		07.6.2024 (Fri)	
Skupine	V1	V2	V1	V2	V1	V2	V1	V2	V1	V2
	S1		S1		S1		S1		S1	
14.40-15.25	SK		SK		VM		KV		UG	
15.30-16.15	SK		SK		VM		KV		UG	
16.20-17.05	SK		SK		VM		KV		UG	
17.10-17.55	SK		SK		VM		KV		UG	
18.00-18.45	SK		SK		VM		KV		UG	
18.50-19.35	SK		SK		VM		KV		UG	

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

KV 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...)

MP 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

Cjelina	1st exam term									
Datum	08.6.2024 (Sat)									
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									