



Twinning to excel materials engineering for medical devices



Tehnološko-metalurški fakultet Univerziteta u Beogradu

u okviru H2020 projekta:

Twinning to excel materials engineering for medical devices

organizuje specijalizovanu školu

School on biomaterials aimed for dental and orthopedic applications

31.10.-04. 11. 2022. g.

Svečana sala Tehnološko-metalurškog fakulteta
Karnegijeva 4, Beograd

**Škola se priznaje kao seminar na doktorskim studijama na TMF,
2 ESPB; jezik škole je engleski**

Učešće u školi je otvoreno za sve studente doktorskih studija ali je obavezna prethodna registracija slanjem elektronske prijave na adresu excellmater@gmail.com sa naslovom: *Registracija za školu.*

Predavanja organizuju:



Univerzitet Alto,
Finska (AALTO)



Univerzitet Istočnog
Pijemonta „Amedeo
Avogadro“, Italija (UPO)



Research Institute Davos,
AO Institut Davos,
Švajcarska (ARI)

Program

Ponedjeljak 31. 10. 2022. g. Challenges and approaches	
9:00 - 9:10	Otvaranje i dobrodošlica , Petar Uskoković (TMF)
9:10 - 9:20	ExcellMater introduction , Bojana Obradović (TMF)
9:20 – 10:30	Clinical problems and current treatment options in dental and maxillofacial surgery , Lia Rimondini (UPO)
10:30 - 11:00	Pauza za kafu
11:00 - 12:00	Clinical problems and current treatment options in orthopaedics , A. Baljžović (Institut za ortopediju “Banjica”)
12:00 – 13:00	State of the art Orthobiologics – a novel autologous cartilage scaffold , Dž. Abazović (BioCell Hospital)
13:00 – 14:00	Pauza za ručak
14:00 – 15:00	Basics of tissue engineering , B. Obradović (TMF)
15:00 – 16:00	Domaći zadaci
Utorak 1. novembar 2022. g. Implants	
9:00 - 10:00	Clinical applications of 3D printing in orthopaedics and traumatology , A. Vernengo (ARI)
10:00 – 11:00	Implants for dental applications , L. Rimondini (UPO)
11:00 - 11:30	Pauza za kafu
11:30 - 12:30	Modern fabrication technologies and 3D biofabrication , A. Vernengo (ARI)
12:30 – 13:30	Metallic implants , N. Radović (TMF)
13:30 – 14:30	Pauza za ručak
14:30 – 16:00	Poster studenta



Projekat je dobio finansiranje iz Okvirnog programa Evropske unije za istraživanje i inovacije Horizont 2020, ugovor br. 952033



Sreda 2. novembar 2022. g. <i>Characterizing biomaterials</i>	
9:00 - 10:00	Physico-chemical characterization (thermal analysis, spectrometry, DMA etc.), M. Gasik (AALTO)
10:00 – 11:00	Rheology principles for biomaterials, K. Dimić-Mišić (AALTO)
11:00 - 11:30	Pauza za kafu
11:30 - 13:00	Immunobiocompatibility of biomaterial, G. Cappellano (UPO)
13:00 – 14:00	Pauza za ručak
14:00 – 15:00	Challenges in biomaterials for soft tissue repair, M. Gasik (AALTO)
15:00 – 16:00	Hydrogels and scaffolds for intervertebral disc repair, S. Grad, (ARI)
Četvrtak 3. novembar 2022. g. <i>Biomaterials and tissue engineering</i>	
9:00 - 10:00	Cell types and TE strategies, A. Cochis (UPO)
10:00 – 11:00	The role of bioreactors and 3R rule, S. Grad (ARI)
11:00 - 11:30	Pauza za kafu
11:30 - 12:30	Assessment of biofilm formation risk, A. Cochis (UPO)
12:30 – 13:30	Characterization of TE constructs – conventional vs. omic methodology, M. Manfredi (UPO)
13:30 – 14:30	Pauza za ručak
14:30 – 15:45	ATMPR – regulative landscape for tissue engineering, M. Gasik (AALTO)
Petak 4. novembar 2022. g. <i>Regulatory and translation issues</i>	
9:00 - 10:00	Regulatory aspects (MDR 2017/745) for medical devices, M. Gasik (AALTO)
10:00 – 11:00	Deploying medical devices, M. Gasik (AALTO)
11:00 - 11:30	Pauza za kafu
11:30 - 12:30	Prezentacije domaćih zadataka

Subota 5. novembar 2022. g. <i>Ispit</i>	
10:00 - 11:00	Ispit
11:00 - 12:00	Pauza
12:00	Podela sertifikata i zatvaranje škole

Više informacija na <https://excellmater.tmf.bg.ac.rs/>

