

YBERC 2024

PROGRAM

Wednesday, 5. 6. 2024

13:00-15:00		Registration	
15:00-15:10	🧪	Opening session	
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15:10-15:25	🧪	Material developmet for biocompatible personalized scaffolds produced by fused depositon of ceramics	Marian Janek
15:25-15:40	🧪	New approach for preparation of complex hydroxyapatite bioceramics	Ľuboš Bača
15:40-15:55	🧪	Additive manufacturing of barium titanate ceramic scaffolds	Peter Veteška
15:55-16:10	🧪	Unlocking genetic prognostication: cage app – computer-aided approach for genomics prediction	Jana Schwarzerová
16:10-16:25	🧪	Tissue engineered vascular grafts – new approach utilizing decellularized tissues modified with 3d collagen and stem cell bioprinting	Roman Matějka
16:25-16:40	🧪	Optimization of 3D bioprinting of highly concentrated collagen bioinks in tissue engineering applications	Denisa Kaňoková
16:40-17:20		Coffee break	
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17:20-17:45	🧪	Invited speaker 3D printed models to study vascular pathologies	Andrea Vítečková Wünschová
17:45-18:00	🧪	In vitro models of ischemic stroke	Jan Víteček
18:00-18:50	🧪	Plenary lecture: Writing high quality articles	Karel Roubík
18:50-19:20	💬	Workshop: Meet your editors	Jakub Ráfl
19:20-19:30		Break	
19:20-19:30		Dinner	
19:50-00:00	💬	Wine testing party & FBME lab tour	



Scientific program



Combined scientific and social program



outdoor/sports
wear recommended
Social and leisure
time program

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Thursday, 6. 6. 2024

08:00-08:15		Charting the waters of digital security: implementing NIS2 directive in healthcare and its challenges in the Czech republic	David Jirsa
08:15-08:30		Advanced phase analysis of retinal videos using ECG	Jan Šíma
08:30-08:45		Optimalization on 3D tissue scaffold persusion	Zdeněk Kukla
08:45-09:00		Decellularization of tissues of cadaverous donors for cardiovascular replacements	Vojtěch Šourek
09:00-09:15		Improved systolic peak detection in photoplethysmography signals: focus on atrial fibrillation	Enikő Vargová
09:15-09:30		Method comparison for bone density in multiple myeloma patients	Michal Nohel
09:30-10:00		Coffee break	
10:00-10:25		Invited speaker: Intellectual property protection in cooperation with industry	Martin Drahanský
10:25-10:40		Modeling of ventricular activation in a PVC patient using a reaction-diffusion model	Lukáš Zelieska
10:40-11:30		Break (leaving to hotels)	
11:30-12:20		Transfer to Chlum (from hotels)	
12:30-13:00		Lunch	
13:00-14:00		Plenary lecture: Deep fake detection	Vitomir Štruc
14:00-14:30		Drink break	
14:30-17:30		Caving and other outdoor activities	
17:30-18:30		Transfer back to hotels	
20:00-00:00		Beer & wurst party	



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Friday, 7. 6. 2024

08:30-08:45		Modeling the long-term impacts and costs of diabetes mellitus on peripheral artery disease	Eliška Friebová
08:45-09:00		Wavelength and Crosslinker Effects on Gelatin Methacrylate Hydrogel Photopolymerization	Marzie Torkashvand
09:00-09:25		Invited speaker: Collagen applications: focusing on the mechanical and structural constraints	Tomáš Suchý
09:25-09:40		Simulation of a remote patient health monitoring system using arduino with connection and data exchange via bluetooth	Petra Kolembusová
09:40-09:55		Wireless monitoring of basic vital signs using IP camera	Michal Kučera
09:55-10:10		Electric stimulation of non-excitable cells	Vojtěch Lindauer
10:10-10:45		Coffee break	
10:45-11:00		Use of 3D scanning in burn analysis and identification: methodology and case studies	Bibiána Ondřejová
11:00-11:15		In vitro analysis of biocompatibility using mesenchymal stem cells	Jana Demeterová
11:15-11:30		Facial burn mask design and manufacturing workflows	Branko Štefanovič
11:30-11:45		Specifics of IT protection in healthcare facilities	David Jirsa
11:45-12:00		Modelling adverse effects after radiotherapy in the head and neck region – a case study	Ivana Kinclová
12:00-12:15		Dimensional stability and printing precision of 3D bioprinted non-methacrylated collagen based scaffolds	Tereza Hloušková
12:15-12:30		Detecting robotic assistant: Analyzing Sensoric Floor Data Patterns	Michal Strýček
12:30-13:00		Closing session	
13:00-14:00		Lunch	



Scientific program



Combined scientific and social program



outdoor/sports
wear recommended
Social and leisure
time program