







Technologies for the fabrication and characterization of 3D scaffolds for tissue engineering NoRoTech

University POLITEHNICA of Bucharest, Romania 8th –9th of June 2017

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Pentru mai multe informatii despre acest program accesati www.eeagrants.org.













CONFERENCE PROGRAM

- Oral presentations -

08.06.2017				
10:00 - 10:45	Registration & welcome coffee			
Session 1 - Chairs: Kamal Mustafa, Horia Iovu, Izabela-Cristina Stancu				
10:45 - 11:00	Welcome speech and project presentation	Andrada Serafim		
11:00 - 11:30	From bench to bedside in bone tissue engineering	Kamal Mustafa		
11:30 - 12:00	Advanced Polymer Materials Group - towards the Bioengineering Valley at University POLITEHNICA of Bucharest Horia Iovu			
12:00 - 12:30	Making biomaterial development real to students at the Faculty of Medical Engineering			
12:30 - 12:45	Project report on 3D printing	Filis Curti		
12:45 - 13:00	Project report on cell-scaffold interactions	Cristina Chircov		
13:00 - 13:15	Project report on micro-CT analysis on porous scaffolds	Elena Olăreț		
13:15 - 14:30	Lunch			
Session 2 - Chairs: Mohammad Yassin, Diana Maria Drăgușin, Ștefan Voicu				
14:30 - 14:50	Rheology of complex fluids in the vicinity of patterned and porous surfaces	Corneliu Bălan		
14:50 - 15:10	Novel methods for investigating mechanical properties of menisci in swelling conditions Fabrizio Barberis			
15:10 - 15:30	Biomedical applications of graphene based materials	Mariana Ioniță		
15:30 - 15:50	Effect of graphene oxide on the mechanical performance and bioactivity of 3D scaffolds hydrogels for tissue engineering	nance and Alberto Lagazzo		
15:50 - 16:10	Coffee break			
Session 3 - Chairs: Ahmad Rashad, Mariana Ioniță, Corneliu Balan				
16:10 - 16:30	Biocompatibility of bioactive copolymer scaffolds for bone regeneration	Salwa Suliman		
16:30 - 16:50	Controlled drug-delivery systems using mesoporous silica carriers: a theoretical kinetics approach for personalized medicine applications	Raul Mitran		
16:50 - 17:10	Biomedical applications of polymeric membranes	Ștefan Voicu		
17:10 - 17:30Dendritic biomaterials for drug-delivery applicationsAdi Ghebaur		Adi Ghebaur		













09.06.2017				
Session 4 - Chairs: Salwa Suliman, Fabrizio Barberis, Florin Miculescu				
10:00 - 10:20	Surface modification of polymeric scaffolds for bone regeneration	Mohammad Yassin		
10:20 - 10:40	Graphene-based biosensors for health care	Teddy Martial Tite		
10:40 - 11:00	Novel polymer matrix incorporated with composite nanofillers for enhanced osteoconduction	George Vlăsceanu		
11:00 - 11:20	Magnetite-based polymeric scaffolds for tissue engineering applications	Cătălin Zaharia		
11:20 - 12:00	Coffee break & poster session			
Session 5 - Chairs: Alberto Lagazzo, Catalin Zaharia, Andrada Serafim				
12:00 - 12:20	Bio-inspired hydrogels for tissue engineering applications	Ahmad Rashad		
12:20 - 12:40	Hydrogels loaded with biogenous cuttlefish bone for hard tissue regeneration	Diana Drăgușin		
12:40 - 13:00	Design of cellulose - alginate scaffolds using PEG/NaOH solvent system	Alexandra Cernencu		
13:00 - 14:00	Lunch			
14:00	Visit @ APMG			













Poster Session			
P1	Vegetable Oil-based Elastomeric Matrices for Drug Release	Brînduşa Bălănucă, Raluca Stan, Raluca Runceanu, Cristina Ott	
P2	New Collagen-based Materials for Lenses	Alexandra-Cristina Burduşel, Izabela Stancu, Ion Bogdan Mihai, Ştefania Marin, Andrada Serafim, Diana Drăguşin, Mădălina Georgiana Albu Kaya	
Р3	Enhanced amine functionalization of graphene oxide using two types of reaction mechanism	Celina Maria Damian, Alexandru Gongea, Bogdan Paladi, Iulia Neblea, Horia Iovu	
P4	Inovative Thiol-Epoxy dental materials reinforced with POSS	<u>Jana Ghiţman</u> , Alexandra Cernencu, Adriana Lungu, Horia Iovu	
P5	Indomethacin Release from Collagen- Hydroxyapatite Composites for Bone Reconstruction	Bogdan Mihai Ion, Maria Minodora Marin, Mihaela Violeta Ghica, Mădălina Albu-Kaya, Diana Drăguşin	
Р6	New porous clay heterostructures used for 5-Fluorouracil encapsulation	Anda-Ionelia Mihai (Voicu), Alexandra-Sorina Gârea, Adi Ghebaur, Andreea-Mădalina Pandele, Horia Iovu	
P7	3D porous scaffolds based on Chitosan-Poly(vinyl alcohol) and Graphene oxide	Andreea Mădălina Pandele, Mariana Ioniță, Horia Iovu	
P8	Recent advances in 3D printing of hybrid nanomaterials	Laura Mădălina Popescu, Roxana Mioara Piticescu, Nastase-Dan Ciobota, Paul Stanciu, Sînziana Istrate, Liliana-Mary Voinea	
Р9	Theoretical base of PRP vs. PRF coated polypropylene meshes	<u>Valentin Popescu</u> , Marius Septimiu Petruțescu, Bogdan Mastalier	
P10	Bio-activation of inert pHEMA matrices with phosphate loaded cellulose fibers in order to induce mineralization	I.F. Ţîrdea, M.O. Constantinescu, A. Serafim, E. Vasile, A. Lungu, I.C. Stancu	



