3rd International Conference on **Biomaterials & Biodevices**

Thursday November 10, 2022

Day 1 November 10, 2022		
Meeting Hall: Lilliental		
09:00-09:40	Registrations	
09:40-10:00	Introduction	
Keynote Presentations		
10:00-10:45	Photonics (Er,Cr: YSGG and Photobiomodulation) in Surgery for Impacted Third Molar Tooth Extraction	
	Saleh Aria, The Harrow Dental Practice, UK	
10:45-11:30	Personalized and Precision Medicine (PPM) as a Unique Healthcare Model to Be Set Up via Biodesign and Translational Applications and Upgraded Business Modeling to Secure the Human Healthcare, Wellness and Biosafety	
	Sergey Suchkov, Institute for Biotechnology and Global Health of MGUPP and A.I. Evdokimov MGMSU, Russia	
Group Photo (11:30-11:50)		
	Networking & Refreshments @ Foyer (11:50-12:20)	
	Oral Presentations	
Session Chair:	Saleh Aria, The Harrow Dental Practice, UK	
Sessions:	Biomaterials Biopolymers and Polymers Biomaterials & Nanotechnology 3D Bio Printing Technology Bioceramics and Composite materials Biodegradable Biomaterials Biosensors & Biorobotics Cell & Tissue Science Engineering Advanced Biomaterials Bioinformatics & Biophotonics Applications of Biomaterials Biomimetic Materials	
12:20-13:00	Dynamic Force Spectroscopy <i>In silico</i> : Exploring Strength, Deformability and Toughness of Biological Particles	
	Valeri Barsegov, University of Massachusetts, USA	
13:00-13:40	Synthesis, Characterization and Anti-Cancer Application of Nat-ZnFe ₂ O ₄ NPs on 2D Tumor Model	
	Siva Chander Chabattula, Indian Institute of Technology Madras, India	
	Lunch @ Restaurant (13:40-14:40)	
14:40-15:20	Results of Local Treatment of Diabetic Foot Syndrome Using Sorption -Bactericidal Dressing "Aibolit"	
	Dilara Nuraly, LLP "SPTC Zhalyn", Kazakhstan	
15:20-16:00	Precise Low-Temperature Ultrasonic Assisted Brazing Method for Medical Applications	
	Abdulsalam Muhrat, University of Minho, Portugal	
16:00-16:40	Toward Electrophoretic Separation of Membrane Proteins in Supported n-Bilayers	
	Frederic Harb, University of Balamand, Lebanon	

3rd International Conference on **Biomaterials & Biodevices**

Thursday November 10, 2022

	Networks & Refreshments @ Foyer (16:40-17:10)	
17:10-17:50	Advanced Manufacturing for Vascular Graft Sealant Technology	
	Kirsty Goudie, University of Strathclyde, UK	
17:50-18:30	Fluorescence-Guided Surgery in the Combined Treatment of Peritoneal Carcinomatosis from Colorectal Cancer: Preliminary Results and Considerations	
	Francesca Cardella, University of Campania 'Luigi Vanvitelli', Italy	
Day 1 Concludes		

3rd International Conference on **Biomaterials & Biodevices**

Friday November 11, 2022

Day 2 November 11, 2022		
Meeting Hall: Lilliental		
Keynote Presentations		
10:00-10:45	Antibodies (Abs) with Functionality (Ab-Proteases) as Translational Tools of The Next- Step Generation designed to be applied for Clinical Applications in Personalized and Precision Medical Practice	
	Sergey Suchkov, Institute for Biotechnology and Global Health of MGUPP and A.I. Evdokimov MGMSU, Russia	
10:45-11:30	Optimal Design of Bio-Composite Material: State of Art and Challenges	
10.15 11.50	David Bassir, Université de Bourgogne Franche-Comté, France	
Networks & Refreshments @ Foyer (11:30-11:50)		
Oral Presentations		
Session Chair	Sergey Suchkov, Institute for Biotechnology and Global Health of MGUPP and A.I. Evdokimov MGMSU, Russia	
Sessions:	Biomaterials in Drug Delivery Systems Biodevies and Biomedical Optics Sustainable Materials Hydrogels Wearables and Mobile Devices Biofabrication Computation Biology Nanomedicine & Nanobiotechnology Health Monitoring devices Medical Imaging and Processing	
11 50 12 20	Development of an Affordable, Biomimetic Surgical Mesh for Abdominal Wall Repair	
11:50-12:30	Alvena Kureshi, University College London, UK	
12:30-13:10	Design Analysis of Highly Sensitive and Fast Response Integrated Passive Device Based Microwave Resonator for Glucose Sensing Application	
	Alok Kumar, Ericsson, Estonia	
	Lunch @ Restaurant (13:10-14:10)	
14:10-14:50	Synthesis and Cytotoxicity of Selenium Nanoparticles Incorporated Nano-Chitosan for Overcoming Drug resistant Cancer Cells	
	Eman Helmy Ahmed Abdelmonaim, ICFO 3(Institute of Photonic Sciences, Barcelona), National Research Centre, Egypt	
14.50 15.20	Transdermal Patch for Use in the Treatment of Pain	
14:50-15:30	Paula Ossowicz Rupniewska, West Pomeranian University of Technology, Poland	
15:30-16:10	Thermo-Elastic Vibration Analysis of Gradient Sandwich Nanobeams and Its Possible Application for Biomass-Sensor	
	Mohammad Talha, IIT Mandi, India	
Day 2 Concludes		
Panel Discussion-Awards & Closing Ceremony followed by Vote of Thanks		

3rd International Conference on **Biomaterials & Biodevices**

Friday November 11, 2022

Virtual Presentations		
November 10, 2022 GMT		
10:00 - 10:10	Introduction	
Oral Presentations		
10:10 - 10:35	Antibacterial Activity on PLA Films Doped with Mg Particles and CTAB	
	Hierro-Oliva M, University of Extremadura, CIBER-BBN and INUBE Spain, Spain	
10:35 - 11:00	Functionalized Double-Decker Silsesquioxanes as Promising Building Blocks in Biomaterials Chemistry	
	Łukasz John, University of Wrocław, Poland	
11:00 - 11:25	Gemini Curcumin improves Cisplatin Induced Apoptosis on MDA MB 231 Cell Line	
	Parastoo Karami, University of Tabriz, Iran	
11:25 - 11:50	Comparative Study of Development of Latent Fingerprint by Using Waste Materials	
11:25 - 11:50	Viany Aseri, Vivekananda Global University, India	
11:50 - 12:15	A Cost-Effective Way to Obtain Micro-Structured Surfaces on PLA Films	
11.50 - 12.15	Hierro-Oliva M, University of Extremadura, CIBER-BBN, and INUBE Spain, Spain	
12:15 - 12:40	Biopolymer-Choline Derivatives-Based Materials Can Affect Hydroperoxide Under Oxidative Stress Conditions	
	Kasaikina Olga, Semenov Federal Research Center for Chemical Physics of the Russian, Russia	
12:40 - 13:05	Recent Advances of Magnetic Gold Hybrids and Nanocomposites and Their Potential Biological Applications	
	Kalsoom mohammed, Riphah International University, Pakistan	
13:05 - 13:30	Scope of Entrepreneurship in Sustainable Natural Fibers	
	Seiko Jose, Central Sheep and Wool Research Institute, India	
13:30 - 13:55	<i>In vitro</i> and <i>In vivo</i> Fluorescence Imaging Of Microwave Synthesized Graphene Oxide Quantum Dots	
	Ganesh Gollavelli, Jawaharlal Nehru Technologial University Kakinada, India	
13:55 - 14:20	Immobilization of Enological Pectinase in Magnetic-Responsive Polyamide Particles for Wine Clarification	
	Sandra Oliveira, University of Minho, Portugal	
Day 1 Concludes		

3rd International Conference on **Biomaterials & Biodevices**

Friday November 11, 2022

November 11, 2022 GMT		
Oral Presentations		
10:00 - 10:25	Novel Polymer-Assisted Organic-Inorganic Hybrid Nanoflowers for Cascade Biocatalysis	
	Joana B. Braz, University of Minho, Portugal	
10:25 - 10:50	Drug delivery by anodic alumina nanostructures: a mini-review	
	Mohammad Amin Makarem, Shahid Chamran University of Ahvaz, Iran	
10:50 - 11:15	Laboratory Screening of a Variety of Polymeric and Biomass Wastes for Chemical	
	Transformation into Valuable Products	
	Osman Y. Yansaneh, University of Hull, United Kingdom	
11.15 11.40	Exploration of Treatments for Subarachnoid Hemorrhage	
11:15 - 11:40	Brandon Lucke-Wold, University of Florida, USA	
11:40 - 12:05	Influence of Increased Mechanical Loading by Lab-In-A-Tube on the Calcium Ions	
	Upregulation in Human Mesenchymal Stem Cell	
	Yuanyuan Wei, The Chinese University of Hong Kong, China	
12:05 - 12:30	Polyacrylic Acid Functionalized Graphene for Phototherapy of Cancer and Bacteria in First and Second Biological Window	
	Ganesh Gollavelli, Jawaharlal Nehru Technologial University Kakinada, India	
Poster Presentation		
12.30 - 12.45	Effect of Electron Beam Processing on the Tribological Properties of PEEK Polymer	
	Nurlan, Astana IT University, Kazakhstan	
Day 2 Concludes followed by Vote of Thanks		