



3<sup>rd</sup> International Forum on

## Biomaterials

May 09-11, 2024 | Prague, Czech Republic

Day 1 May 09, 2024, Panorama Hotel Prague, Prague, Czech Republic	
Meeting Room	
08:30 - 09:00	Registrations
09:00 - 09:15	Introduction & Opening Words Honorary Speech by Chairman: Thomas J Webster, Interstellar Therapeutics, USA
Plenary Session	
09:15 - 09:55	Title: Human Nanomedicine: Real Clinical Results with Nano Implants <b>Thomas J Webster</b> , Interstellar Therapeutics, USA
09:55 - 10:35	Title: Gene Network Analysis of Complex Diseases <b>Ralf Hofstadt</b> , Bielefeld University, Germany
Keynote Session	
10:35 - 11:05	Title: Surface Analysis of Biomaterials <b>Matjaz Finsgar</b> , University of Maribor, Slovenia
11:05 - 11:15	Coffee Break @Foyer
Workshop by Conference Chairman Prof. Thomas J Webster	
11:15 - 12:00	Title: Fundamentals of Cell- Biomaterial interactions: Lessons Learned and Future Innovations <b>Thomas J Webster</b> , Interstellar Therapeutics, USA
Invited Session	
12:00 - 12:25	Title: Microstructure Influence on the Electrochemical Behavior of the Ti6Al4V alloy due to Heat Treatment for Medical Applications <b>Mercedes Paulina Chavez Diaz</b> , National Polytechnic Institute, Mexico
12:25 - 12:50	Title: From Analysis to Structures: an Investigation of Carbon Dots Structure <b>Mattia Bartoli</b> , Turin Polytechnic, Italy
12:50 - 13:00	Group photo
13:00 - 13:40	Lunch @Restaurant
13:40 - 14:05	Title: Heparin Modification of Blood-Contacting Biomaterial Surfaces to Improve Hemocompatibility, Biocompatibility and Antibacterial Properties <b>Hatice Ferda Ozguzar</b> , KU Leuven, Belgium
14:05 - 14:30	Title: Amphiphilic Dendrimer based Nanosystems for On-demand Delivery of Nucleic Acid Therapeutics <b>Xiaoxuan Liu</b> , China Pharmaceutical University, China
14:30 - 14:55	Title: Theranostic Macromolecular Systems for Tumor Site-Targeted Drug Delivery and 19F MRI Imaging <b>Fatma Nalan Cetin</b> , Ghent University, Belgium
14:55 - 15:20	Title: Modeling the Breast Tumor Microenvironment with Proteinaceous Biomaterials <b>Barbara Blanco Fernandez</b> , University of Santiago de Compostela, Spain

15:20 - 15:55	Title: Implementation of a Freeze Drying Process Allowing Directed and Customized Structuring of Hydrogel-based Scaffolds <b>Johnn Majd Balsters</b> , Saarland University
15:55 - 16:05	Coffee Break @Foyer
16:05 - 16:30	Title: From Structure to Properties: The Long Journey of Carbon Dots <b>Alberto Tagliaferro</b> , Turin Polytechnic, Italy
16:30 - 16:55	Title: Anticancer Activity of Monoclonal Antibodies Conjugated to H-Ferritin 3D Tumormodels <b>Davide Proserpi</b> , University of Milano-Bicocca, Italy
16:55 - 17:20	Title: Lipid Nanoparticles with Biomimetic Properties for Targeted Delivery of RNA to Tumors <b>Miriam Colombo</b> , University of Milano-Bicocca, Italy
<b>Poster Presentations</b>	
P-001	Title: Non-Genetic Engineering of Living Organisms and Innovative Living Pharmaceuticals <b>Can Zhang</b> , China Pharmaceutical University, China
P-002	Title: Non-Genetic Engineering of Living Organisms and Innovative Living Pharmaceuticals <b>Lingjing Xue</b> , China Pharmaceutical University, China
P-003	Title: Super-Porous Biodegradable Matrices Based on Guar Gum for Gastroretentive Controlled Drug Release <b>Violante de Paz</b> , University of Seville, Spain
P-004	Title: Preparation of Multicomponent Hydrogels based on Biodegradable Polyhydroxyurethanes (PHU) as Redox-Responsive Biomaterials via NIPU Methodology <b>Elena Benito</b> , University of Seville, Spain
P-005	Title: Interpenetrated Polymer Networks Based on L-tartaramide and Guar Gum for GRDDS <b>M Gracia Garcia Martin</b> , University of Seville, Spain
P-006	Title: Steel and Copper Melting on Carbonized Spongin Scaffolds Using Extreme Biomimetic Approach <b>Bartosz Lesniewski</b> , Adam Mickiewicz University, Poland
P-007	Title: High-level CAD/CAM Software for Customized 3D Bioprinted Wound Dressings <b>Maialen Zelaia</b> , VICOMTECH, Spain
P-008	Title: NOMAD: Novel Biomaterials to Prevent Dental Peri-implant <b>Hatice Ferda Ozguzar</b> , KU Leuven, Belgium
P-009	Title: 3D Extracellular Matrix-mimetic Compositions Based on Double Reinforced IPNs <b>Mihaela Raluca Dobrisan</b> , Advanced Polymer Materials Group, Romania
P-010	Title: Elaboration and Characterization of Biocomposites Material Biopolymer (PLA)– Bioactive Glass (45S5) / Calcium Phosphates <b>Samuel Kestel</b> , ITheMM - URCA, France
<b>Networking-Discussions</b>	
<b>Closing the Conference for Day 1</b>	

## Day 2 May 10, 2024, Prague, Czech Republic

### Virtual Presentations/ Webinar

### London Time Zone (GMT )

10:00 - 10:40	P	Title: Investigations Corrosion and Corrosion-Assisted Cracking of Zinc and Magnesium Alloys for Their Use as Bioimplants <b>Raman Singh</b> , Monash University, Australia
10:40 - 11:20	P	Title: Design of Multi-functional Biomaterials based on the Intermediate Water Concept <b>Tanaka Masaru</b> , Kyushu University, Japan
11:20 - 12:45	I	Title: Designing Inorganic Conformational Nanoassemblies for Drugless Therapy <b>Ranjith Kumar Kankala</b> , Huaqiao University, China
12:45 - 13:10	I	Title: From Structure to Properties: The Long Journey of Carbon Dots <b>Alberto Tagliaferro</b> , Turin Polytechnic, Italy
13:10 - 13:35	I	Title: Development of An Experimental Methodology to Study the Tribocorrosion Phenomenon of AISI 316 L Atainless Steel for Use in Knee Prostheses <b>Manuel Vite Torres</b> , National Polytechnic Institute, Mexico
12:35 - 13:15	P	Title: Selol-maghemite-loaded PLGA Nanoparticle for Successful Solid Tumor Growth Hinderer <b>Paulo Cesar De Moraes</b> , Catholic University of Brasilia, Brazil
13:15 - 13:55	P	Title: Carbon Dots as Novel Drug Delivery Systems in Modern Medical Healthcare <b>Roger M Leblanc</b> , University of Miami, USA

Closing the Webinar