Timetable		Speaker	Affiliation	Title
07/06/2023				
08:30	**Registration and placing of posters**			
9:30-9:45		**Magnifico Rettore Fabio Fortuna, Chair persons (Cacciotti, Ravaglioli, Lin)**	**University of Rome Niccolò Cusano, Rome, Italy**	**Official greetings and introduction to the Conference**
15 min	O	Antonio Ravaglioli	National Research Council, Faenza, Italy	Life: a mistery to find God
10:00-11:15	**Scaffolds & Additive Manufacturing**			
30 min	K	Francesco Baino	Politecnico di Torino, Turin, Italy	Additive manufacturing of bioactive ceramic and glass scaffolds for tissue engineering
15 min	O	Valerio Papa	University of Rome Niccolò Cusano, Rome, Italy	Use of fused deposition modelling for biomedical implant manufacturing
15 min	O	Federico Mochi	Hypatia Research Consortium, Rome, Italy	Biological assessment of 3D printed bone-like scaffolds for tissue engineering applications
11:15-11:45	**Coffee break and Poster session**			
11:45-12:50	**Biomedical Applications**			
20 min	I	Guochao Nie	Yulin Normal College, Yulin, China	Intelligent Nano Vesicle Synergy Thermal Therapy Rehabilitation System
15 min	O	Yang-Chen Lin	National Taiwan University, Taiwan	Evaluation therapeutic effect of curcumin-loaded cerium oxide nanoparticles on interstitial cystitis
15 min	O	Alessia D'Andrea	University of Rome Niccolò Cusano, Rome, Italy	Oral Squamous Cell Carcinoma: a new treatment approach through dexamethasone-loaded microparticles
15 min	O	Noemi Fiaschini	ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development), Rome, Italy	Design, production and characterization of oily extracts-loaded electrospun membranes for wound healing application
13:00-13:45	**Scaffolds**			
30 min	K	Silvia Farè	Politecnico di Milano, Milan, Italy	Decellularized vegetal structures for 3D-scaffold based in vitro tissue models
15 min	O	Mostafa Awaid	ERNAM (Nanotechnology Research Center), Kayseri, Turkey	Oxygen-Generating 3D-Printed Scaffolds for Hard Tissue Regeneration
14:00-15:30	**Lunch time**			
15:30-16:45	**Round table: Science, Industry and Politics**			
15 min	O	Filippo Piccinini	DIMEC (Department of Medical and Surgical Sciences), Bologna, Italy	Opportunities in 2023 for short-term fellowships in Europe.
15 min	O	Daniele Barettin	University of Rome Niccolò Cusano, Rome, Italy	ATHENA project: an European University
30 min	K	Mario Monzón	University of Las Palmas de Gran Canaria, Las Palmas, Spain	Custom-Made Implants and Additive Manufacturing in the International and European Medical Device Regulations
15 min	O	Leila Salehi	Fondazione Università Niccolò Cusano, Rome, Italy	Niccolò Cusano Medical Foundation: the Mission
17:00-17:30	**Welcome party**			
08/06/2023				
10:30-11:30	**Hydrogels**			
30 min	O	Feng Huei Lin	Institute of Biomedical Engineering & Nano-medicine, National Health Research Institutes, Taiwan	Hyaluronate-Based Thermo-sensitive Hydrogel for vitreous body substitute
15 min	O	Laura Chronopolou	La Sapienza University, Rome, Italy	Peptide hydrogel composites containing Graphene Oxide for tissue regeneration applications
15 min	O	Jason Lin	National Taiwan University, Taiwan	Combination of Platinum-doped $CaCO_3$ and Amylopectin-based Gel to Synergize with Radiotherapy for High-grade Glioma
11:30-12:00	**Coffee break and Poster session**			
12:00-12:45	**Characterisation techniques**			
15 min	O	Filippo Piccinini	University of Bologna, Italy	User-friendly open-source tools for aligning multimodality 2D microscopy images and performing single-cell co-localization analysis
15 min	O	Noah Giacon	University Cattolica del Sacro Cuore, Rome, Italy	Enhanced fluorescent-functionalized-nanoparticles for real-time tracking and localization of proteins in live cells
15 min	O	Marco Fosca	National Research Council - Institute of Structure of Matter, Rome, Italy	Real time monitoring of calcium phosphate cements. An insight into kinetics and mechanisms
12:45-13:45	**Symposium MuSiCaP**			
		Antonio Ravaglioli	National Research Council, Faenza, Italy	Multi-doped silico-calcium Phosphates
	K	Rainer Gadow	Institute for Manufacturing Technologies of Ceramic Components and Composites, Stuttgart, Germany	Suspension Flame Sprayed Metal Doped Calcium Phosphate Coatings with Antibacterial Properties for Infection Prophylaxis
13:45-15:15	**Lunch time**			
15:15-16:20	**Sensing, monitoring and design**			
30 min	K	Giuseppe Barillaro	University of Pisa, Pisa, Italy	Implantable and bioresorbable chemical sensors for in-vivo monitoring of clinical-diagnostic markers
20 min	I	Chunhong Zhang	Yantai Research Institute of Harbin Engineering University, Yantai, China	Rational Design and Enantioseparation Properties of Helical Poly(phenylacetylene)s Bearing L-Amino Acid Derivatives as Pendants
15 min	O	Feza Korkusuz	Hacettepe University, Ankara, Turkey	Development of a Novel Immobilized Metal Affinity Chromatography (IMAC) Sorbent for Phosphopeptidomic Analysis of Synovial Fluid
16:20-16:50	**Coffee break and Poster session**			
16:50-17:40	**Implants**			
30 min	K	Iulian Antoniac	Politehnica University of Bucharest, Bucarest, Romania	Surface Coatings on Biodegradable Mg Alloys for Orthopedic Implants: Current Status and Potential Clinical Translation
20 min	O	Feza Korkusuz	Hacettepe University, Ankara, Turkey	Porous Titanium Biomedical Implants using Selected Laser Manufacturing Technology
19:00	**Social dinner**			
09/06/2023				
9:45-11:00	**Cancer models and treatments**			
20 min	I	Cristina Satriano	University of Catania, Catania, Italy	A bioinspired approach to scrutinize the interaction between cancer cells and noble metal nanoparticle-based biomaterials
20 min	I	Serena Danti	University of Pisa, Pisa, Italy	Cancer tissue engineering: Challenges and opportunities for rare tumors
20 min	I	Giuseppina Nocca	University Cattolica del Sacro Cuore, Rome, Italy	Development of an in vitro Oral mucosa model to characterize drug delivery systems
15 min	O	Yavuz Nuri Ertaş	Erciyes University, Kayseri, Turkey	Treatment of Breast Cancer using 3D-Printed Implantable Scaffolds via Photothermal, Photodynamic and Chemodynamic Therapy
11:00-11:30	**Coffee break and Poster session**			
11:30-13:45	**SISMAC Symposium - Neurosurgery and Cranioplasty: future perspectives**			
30 min		Ilaria Cacciotti	University of Rome Niccolò Cusano, Rome, Italy	SISMAC project: an innovative custom made approach for the cranial implants
30 min	K	Vicentiu Saceleanu	Lucian Blaga University of Sibiu, Sibiu, Romania	Therapeutic possibilities in skull defects
20 min	I	Wanda Lattanzi	University Cattolica del Sacro Cuore, Rome, Italy	An innovative bioink for targeted drug delivery and gene modulation for personalized paediatric cranioplastic surgery
20 min	I	Paolo Frassanito	University Cattolica del Sacro Cuore, Rome, Italy	Implications of the cranial growth and the 'volume issue' in cranial reconstruction
20 min	I	Gianpiero Tamburrini	University Cattolica del Sacro Cuore, Rome, Italy	Cranial repair in children: Age-related factors and the choice of the material
15 min	O	Cosmin Cindea	Lucian Blaga University of Sibiu, Sibiu, Romania	Cranioplasty – a neurosurgeon's perspective. Indications, challenges, risks, complications
13:45-15:15	**Lunch time**			
15:15-16:15	**Nanomedicine, Nanotechnologies and Antibacterial Treatments**			
30 min	K	Thomas Webster	Hebei University of Technology, Hebei, China	Improving Human Health in the Clinic: Nanomedicine

30 min	K	Livia Visai	University of Pavia and ICS Maugeri IRCCS, Pavia, Italy	Nanotechnology approaches for bacterial infection treatment
16:15-16:30	**Closing remarks**			
18:00	**Rome Social trip**			

Poster code	Title of the poster
P01	BRAIN IT-Innovative technologies in Neurosurgery Study: materials and technologies at the service of the biomedical training
P02	Biomaterials for Engineering Applications
P03	Metabolites of Leukocyte Poor and Rich PRP Differ in Untargeted Metabolomics
P04	Mucoadhesive Electrospun Systems for the Treatment of Oral Cancer
P05	Centrifugation Modifies the Lipidomic Profile of SVF
P06	Surface Functionalisation of 3D-printed Scaffolds
P07	Combination of Platinum-doped $CaCO_3$ and Amylopectin-based Gel to Synergize with Radiotherapy for High-grade Glioma
P08	Biopolymers for Craniomaxillofacial Applications: optimization of the printing parameters
P09	A new oral mucosa model as a powerful tool to characterize drug delivery systems for the oral lichen planus treatment
P10	Characterization and Antibacterial Effects of Plant-Derived Nanofibers
P11	Functionalisation of biopolymeric scaffolds for bone regeneration properties enhancement
P12	Drug delivery systems for oro-transmucosal administration: Nanoparticles for the treatment of Oral Lichen Planus
P13	Additive manufacturing technologies applied to the design and improvement of innovative biomedical implants
P14	Maxillofacial fixing biodegradable systems:design, realization via fused deposition modeling and characterization
P15	Aromatic-decorated nanogels: synthesis and evaluation of cell uptake under static and dynamic conditions