

## Scientific program



## Thursday, 26th September 2024

Thursday, 26" September 2024					
9:00	REGISTRATION				
9:30	OPENING				
SESSION 1: Bioprinting and Hydrogels – Chaired by: TBC					
10:00	Keynote 1	E. Engel	TBC		
10:45	Invited 1	A. D. Lantada	Bioinspired Design and Manufacturing Strategies for Next Generation Medical Implants: Trends and Challenges		
11:15	Talk 1	R. Goyal	Nature-Inspired 3D Printed Nano Cellulose Fiber Reinforced Hierarchical Functional Hydrogel Composites Toward Biomedical Applications		
11:30	Talk 2	A. Hernandez	3D Printing of Nanocellulose and Alginate Hydrogels for Biomedical Applications		
11:45	Coffee Brea	ak & Poster Session			
SESSION 2: Ceramics and Bone Tissue Engineering – Chaired by: TBC					
12:15	Invited 2	M. Lasgorceix	TBC		
12:45	Talk 3	M. Pita-Vilar	3D Printed α-TCP and Carboxymethyl Cellulose Scaffolds with Enhanced Osteogenic and Mechanical Performance with Application in Bone Tissue Engineering		
13:00	Talk 4	R. Martín- Rodriguez	Combining Hydroxyapatite and Conductive Polymers: Advancing Toward 4D Electroactive Scaffolds for Bone Regeneration		
13:15	Lunch & Po	ster Session			
SESSION 3: Smart Designs and Metamaterials - Chaired by: TBC					
14:30	Keynote 2	A. A. Zadpoor	TBC		
15:15	Invited 3	J. Patterson	TBC		
15:45	Talk 5	P. Agrawal	SONOPRINT: An Acoustic-Assisted Volumetric 3D (Bio)Printer		
16:00	Talk 6	M. Babaei	Porosity Role in Biocompatibility of Additive Manufactured BTI21S Scaffolds		
16:15	IMDEA FACILITIES TOUR				
20:30	CONFERENCE DINNER				



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## Friday, 27th September 2024

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8:30	WELCOME				
SESSION 4: Ceramics and Bone Tissue Engineering - Chaired by: TBC					
9:00	Invited 4	D. Grossin	TBC		
9:30	Talk 7	L. Aboal-Castro	Femtosecond Laser Engraving of 3D Printed Scaffolds for Bone Tissue Regeneration		
9:45	Talk 8	V. Axelrad	Tailoring Mechanical and Antimicrobial Properties of 3D-Printed Implant Architectures for Enhanced Orthoregeneration		
10:00	SESSION 5	Rapid-Fire Presenta	ations		
10:30	Coffee Brea	k & Poster Session			
SESSION 6: Cartilage and Composites – Chaired by: TBC					
11:00	Keynote 3	D. J. Kelly	Biofabrication and Bioprinting Strategies for Musculoskeletal Tissue Regeneration		
11:45	Invited 5	J. Llorca	3D Printed Bioresorbable Polymers and Polymer Composites for Cartilage and Bone Tissue Engineering Applications		
12:15	Talk 9	Y. Liu	Bio-Functional Collagen-Based 3D Printed Poly (Glycerol Sebacate) Scaffold to Enhance Articular Cartilage Repair		
12:30	Talk 10	R. Meshram	Material Investigation Towards the Manufacturing of Dissolving 3D Printed Microneedles by Digital Light Processing		
12:45	Lunch & Po	ster Session			
SESSION 7: Business Innovation in Biofabrication – Chaired by: TBC					
14:00	Invited 6	3Dtive S.L.	TBC		
14:30	Talk 11	TBC	TBC		
14:45	Talk 12	TBC	TBC		
15:00	Talk 13	B. Ferrari	Additive Manufacturing & Colloidals Processing in Biomedicine		
15:15	Talk 14	X. Barceló	Development of a Perfused Microfluidic Liver Model Using Bioprinting and Liver-Derived Bioinks		
15:30	AWARDS A	ND CLOSING CERE	MONY		