Future 3D Additive Manufacturing | The 3DMM2O Conference 2024

7.4.		Sunday	
	4:00 PM		Check-In
	6:00 PM	8:00 PM	Dinner at Individual Time
	8:00 PM		Informal Get-Together
8.4.		Monday	
			Breakfast
	9:00 AM	9:05 AM	Opening & Welcome
	9:05 AM	9:45 AM	Jennifer Young: Extracellular Matrix Mechanobiology
	9:45 AM	10:25 AM	Ayelet Lesman: Fibrous Matrix Mechanics: Orchestrating Cellular Interactions
	10:25 AM	10:40 AM	Coffee Break
	10:40 AM	10:55 AM	Contributed Talk: Andreas Schoenit
	10.40 AN	10.55 AW	Force Transmission is a Master Regulator of Mechanical Cell Competition
	10:55 AM	11:10 AM	Contributed Talk: Prof. Claudia Loebel
	10.55 AM	11.10 AM	Local Matrix Stiffening to Model Lung Fibrotic Remodeling <i>ex-vivo</i>
	11:10 AM	11:25 AM	Industry Talk: Benjamin Richter (Nanoscribe)
			Revolutionizing Biomedical Fabrication: Two-Photon Polymerization for Multimaterial 3D Printing
	11:25 AM	12:05 PM	Andrew Holle: Granular Material Approaches for Presenting Tunable Physiological 3D Confinement to Cells
	12:05 PM	12:45 PM	Viola Vogel: The Mechanobiology of Extracellular Matrix: Thinking Beyond the Young's Modulus
	12:45 PM	2:00 PM	Lunch
	2:00 PM	2:40 PM	Hagan Bayley: Communication in Synthetic Tissues
	2:40 PM	3:00 PM	Coffee Break
	3:00 PM	3:40 PM	Pavel Levkin: A High-Throughput and Miniaturized Approach to Creating, Assembling, and Manipulating Cell Spheroids
	3:40 PM	4:20 PM	Christopher Chen: Engineering Tissues: Build, Learn, Repeat
	4:20 PM	4:35 PM	Coffee Break
	4:35 PM	5:07 PM	Flashtalks
	5:07 PM	7:00 PM	Poster Session I & Drinks
	7:00 PM		Dinner

9.4.	Tuesday	
		Breakfast
9:00 AM		Welcome

9:00 AM	9:40 AM	Danijela Vignjevic: Homeostasis of Gut Epithelium Under Mechanical Stress
9:40 AM		Edouard Hannezo: Mechano-Chemical Bistability of Intestinal Organoids
10:20 AM		Coffee Break
10:35 AM	11:15 AM	Michael Boutros: Cancer Organoid Models for Drug Discovery
11.15 0.04		Contributed Talk: Prof. Jaroslaw Jacak
11:15 AM		3D Multiphoton-Lithography Proteinous Scaffolds Moduli for Stem Cell Studies
11:30 AM	11.45 454	Contributed Talk: Tobias Walther
11.50 AW	11:45 AM	DNA Microbeads for Spatio-Temporally Controlled Morphogen Release Within Organoids
11:45 AM	12·00 PM	Industry Talk: Robert Kirchner (HETEROMERGE)
11.45 AIVI		Multi-Material 2-Photon 3D Printing Using an Open-Fluidic in situ Material Exchange
12:00 PM	12:10 PM	Group Picture
12:10 PM	2:00 PM	Lunch
2:00 PM	2:40 PM	Jacopo di Russo: Mesoscale Epithelial Mechanobiology and Cellular Interfaces
2:40 PM	3:20 PM	Daniela Duarte Campos: Bioinspired Strategies and Robotics to Build Tissue with Cell Aggregates
3:20 PM	3:35 PM	Coffee Break
3:35 PM	4:15 PM	Jason Burdick: 3D Biomaterials Processing to Guide Cell Migration and Organization
4:15 PM	4:55 PM	Laura De Laporte: Injectable Synthetic Molecular and Colloidal Building Blocks to Overcome Challenges in Tissue Engineering
4:55 PM	5:05 PM	Coffee Break
5:05 PM	5:23 PM	Flashtalks
5:23 PM	7:00 PM	Poster Session II & Drinks
7:00 PM		Dinner

10.4.	Wednesday	
		Breakfast
9:00 AM		Welcome
9:00 AM	9:40 AM	Roberto Mayor: Mechanics of Cell Migration in vivo
9:40 AM	10:20 AM	Matthias Merkel: Anisotropic Flows Can Organize Multi-Cellular Systems
10:20 AM	10:35 AM	Coffee Break
10:35 AM	11:15 AM	Andreas Bausch: Activity Matters in Organoid Systems
11:15 AM	11 11·55 AM	Aurélien Roux: Mechanical Generation of Bicephalous and Toroidal Hydra Defines Actin Topological Defects as Force Organizers During Head
11.15 AW		Regeneration
12:00 PM	1:30 PM	Lunch
1:45 PM	2:00 PM	Meet for Social Program
2:00 PM	6:00 PM	Social Program
7:00 PM		Conference Dinner & Poster Award

11.4.	Thursday	
		Check-Out

		Breakfast
9:00 AM		Welcome
9:00 AM	9:40 AM	Aleksandr Ovsianikov: Multiphoton Lithography – Opportunities for Precise Engineering 3D Cell Environment
9:40 AM	10:20 AM	Ada Cavalcanti-Adam: Material-Based Approaches to Control Cancer Cell Spheroids Dynamics and Invasion
10:20 AM	10:35 AM	Contributed Talk: Grégoire Lemahieu
10.20 Alvi		Adhesion Mechanics in Breast Cancer Spheroid Spreading
10:35 AM	10:50 AM	Coffee Break
		Contributed Talk: Oliver Max Drozdowski
10:50 AM	11:05 AM	Three-Dimensional Force Inference in Budding Intestinal Organoids
		Contributed Talk: Jasmina Gačanin
11:05 AM	11:20 AM	Cell-Instructive Materials: Versatile Biohybrids and their Guided Assembly to Functional Hydrogels
		Contributed Talk: Malin Schmidt
		Combining Two-Photon Polymerization Direct Laser Writing with Soft Lithography for Investigating Plasmodium Sporozoite Migration on
11:20 AM	11:35 AM	Triangular Patterns
11:35 AM	12:15 PM	Motomu Tanaka: Spatiotemporal Order and Dynamics of Tissues and Organoids
12:15 PM	12:55 PM	Peer Fischer: Printing Cells with Sound
12:55 PM	1:00 PM	Farewell
1:00 PM	1:30 PM	Lunch
		Departure