Parallel	Track	Session	Time	Oral presentations	Speaker
	Rectoría (Sala mayor) Tuesday, Nov. 3 -	01 Biomaterials, Hydrogels, and Bioinks	10:00	**Keynote:** Synthetic 3D cell-culture matrices with DNA-encoded properties and functions	Elisha Krieg
			10:30	**Keynote:** Engineering mechanical heterogeneity in 3D cell environments with light	Miguel Dias Castilho
			11:00	Electroconductive and Magnetic Fiber-Laden Hydrogels for 3D-Bioprinting Applications	Salomé Luis
			11:20	AddGraft: A versatile, biocompatible additive for light-based 3D patterning of physical and chemical signals within hydrogel networks	Paulina Nunez Bernal
A		Adaptive Matrices: Engineering Next-Generation Hydrogels for Tissue and Disease Modeling 1	11:40	3D-printed DNA-responsive hydrogels	Cristiana Drago
			12:00	A Multi-Material 3D Bioprinted Platform with Mechanical Heterogeneity for Fibrosis Modeling and Antifibrotic Drug Screening.	Aidee V Arizpe Tafoya
			12:20	Stiffness-Dependent Drug Transport, Cancer Cell Response, and Tumor Heterogeneity in GelMA and PCL Short Fiber Composites	Gelareh Ganjikho
			12:40	Dynamic Modulation of the Microenvironment Promotes Functional Maturation of Engineered Tissues	Eric Silberman
			12:59	Engineering viscoelastic hydrogels to control epithelial responses under confinement	Sylvain GABRIELE
	Rectoría (Foro) Tuesday, Nov. 3 -	02 Advanced Bioprinting Technologies & Manufacturing Strategies	10:00	**Keynote:** Four-dimensional printing: an enabling fabrication approach for the fabrication of dynamic in vitro models	Irene Chiesa
			10:30	3D-printed carbon microlattices: A novel scaffold platform for musculoskeletal tissue engineering	Monsur Islam
			10:50	Tailored Bioreactors Facilitate Cellular Remodeling in 4D Bioprinted Constructs for Cardiovascular Applications	Roman Matejka
			11:10	Perfusion-Driven 4D Remodeling of Microchannelled Collagen Constructs for Vascular and Soft Tissue Replacements	Denisa Kanokova
A		4D Printing for Tissue Engineering and Regenerative Medicine 1	11:30	Biomimetic interlocking pyrolytic carbon building blocks: a modular, minimally invasive strategy for bone defects	Andrés Díaz Lantada
			11:50	**Keynote:** Embracing Remote Fields in Biofabrication for Neuromodulation	Menglin Chen
			12:20	Personalized Dual-Scaffold Platform with Tunable Biomaterials for Osteochondral Regeneration	Monica Echeverry Rendon
			12:40	Light-Programmable and Digital Light Processing 3D Printed Hydrogels	Manuela Garay-Sarmiento
	Carreta Tuesday, Nov. 3 -	02 Advanced Bioprinting Technologies & Manufacturing Strategies	10:00	**Keynote:** 3D Hybrid Bioprinting for Complex Multi-Tissue Engineering	Yunzhi Peter Yang
			10:30	Chaotic bioprinting of microcompartmentalized skeletal muscle constructs using bioinks enriched with minimallyprocessed tissue (MPT) for structured cultivated r	Ana Sofía García
			10:50	Extruded droplet-on-demand (X-DoD) bioprinting for controlled iPSC-based functional cortical network formation	Elisabeth Riska
			11:10	A Multimaterial Volumetric Bioprinting Platform for Heterogeneous Cornea Tissue Fabrication	Adrián García
A		Engineering Complex Tissues Through Multimaterial Biofabrication I	11:30	Innovative multifunctional toolheads for the colonoscopic delivery of biomaterials in-situ	Gabriele Maria Fortunato
			11:50		
	Auditorio Expedition Tuesday, Nov. 3 -	03 Tissue-Specific & Organ-Oriented Biofabrication	10:00	**Keynote:** Elastic Hydrogel for Soft Tissue Fabrication and Biomechanical Stimulation	Guohao Dai
			10:30	Conductive Nanocomposite Bioinks for Bioprinting of Bioactive Nerve Guidance Conduits	Sanjairaj Vijayavenkataraman
			10:50	Modular Biofabrication of Composite Scaffolds for Hierarchical and Biomimetic Breast Tissue Engineering	Asaf Silverstein
			11:10	A Biomimetic Vascularized 3D Hepatic Lobule Model with Dynamic Perfusion	Silvia Fare'
			11:30	Aqueous two-phase system (ATPS) wet-spinning of oriented porous hydrogel fibers for enhanced cell colonization for skeletal muscle tissue engineering	Marina Volpi
			11:50	Development of a volumetrically bioprinted iPSC-derived foetal liver-like niche in a chemically defined hydrogel for assessing HSC homing and expansion	Charlotte Brice
A		Biofabrication of Soft Tissues 1	12:10	Bioprinting-assisted Tissue Assembly of Volumetric and Hypoimmunogenic Liver Grafts	Daekeun Kim
	Business Intelligence Tuesday, Nov. 3 -	06 Biofabrication for Emerging Applications	10:00	**Keynote:** Infrastructure enables AI: Why 3D Cell Culture Must Undergo the Same Transformation as 2D Cell Culture	Patrick Thayer
			10:30	AI-Enabled Detection of Geometrical Deviations in Two-Photon Photopolymerization of Large-Scale Biomedical Scaffolds	Silvia Tonghini
			10:50	Engineering Vascularized Cardiac Tissues Using Bayesian Optimization	Karen Shen
			11:10	VascuNet: Automated Patient-Specific Cardiac Vascular Mapping from CT Angiography for 3D Bioprinting	Mrinal Yalageri
A		Integrating Machine Learning and AI for Next-Generation Biofabrication 1	11:30	AI-Driven Multimaterial Digital Light Processing for Multiscaled and multimaterial Vascular Tissue Constructs	Daniel Nieto
			11:50	Industrial Biofabrication of OOCs – Towards the Automated Bioproduction of Organ-on-a-Chip Systems using Sensor-Integrated 3D-Bioprinting Technology	Sebastian Scholpp (on behalf of Andreas Blaeser)
			12:10		
	Venture Café Tuesday, Nov. 3 -	05 Community Building	10:00	**Keynote:** Industrializing Biofabrication: Global Scaling and Quality Harmonization of Reconstructed Human Tissues	Vanja Dakic
			10:30	**Keynote:**	Misael Silva
			10:50		
			11:10		
		Biofabrication & Industry (To be developed)	11:30		
			11:50		
B	Carreta Tuesday, Nov. 3 -	02 Advanced Bioprinting Technologies & Manufacturing Strategies	14:00	**Keynote:** Biofabricated Unconventional Scaffolds for Bone Tissue Engineering	Gulden Camci-Unal
			14:30	Chaotic bioprinting of compartmentalized myoblast/fibroblasts co-cultures for enhanced myogenesis	Rosa Angelica Gonzalez Vilchis
			14:50	A multimaterial extrusion device with integrated optical crosslinking for minimally invasive cartilage repair	Giovanni Vozzi
			15:10	Multimaterial Volumetric Bioprinting of Lymphatic Tumoroids for Modeling Tumor–Lymphatic Interactions	Adrián Garcia
			15:30	GEM : Gradient Embedded Multinozzle 3D Printing	Soham Sinha
		Engineering Complex Tissues Through Multimaterial Biofabrication 2	15:50		
B	Auditorio Expedition Tuesday, Nov. 3 -	03 Tissue-Specific & Organ-Oriented Biofabrication	14:00	**Keynote:** Biofabrication of complex tissues with single-cell resolution	Luiz Bertassoni
			14:30	Bioprinted Liver Constructs Harnessing Liver Decellularized Extracellular Matrix and Functional Hepatocytes for Liver	Dayoon Kang
			15:00	Design, Construction and Validation of a Cost-efficient Modular Open-source Volumetric Bioprinter	Joshua Lecoupe
			15:20	3D bioprinted pigmented human skin for translational drug testing across skin phototypes	Jessica Heline Lopes da Fonseca
		Biofabrication of Soft Tissues 2	15:40	A tunable gelatin bioink toolbox for light-based biofabrication of lumenized constructs for urethral repair	Nele Pien
			15:50		
B	Business Intelligence Tuesday, Nov. 3 -	06 Biofabrication for Emerging Applications	14:00	**Keynote:** Making Biofabrication Automatable: AI-Enabled Process Intelligence for Consistent and Transferable Workflows	Gregor Weisgrab
			14:30	AI-enhanced real-time control for precision robotic bioprinting	Pierpaolo Fucile
			14:50	From intraoperative scan to printable geometry: a fully automated pipeline for patient-specific in situ bioprinting	Carmelo De Maria
			15:10	A Metaverse-Controlled Holographic Optical Tweezers Bioprinting platform for Immersive Micro–Scale Cell Manipulation	Daniel Nieto
			15:30	An intelligent bioprinting platform with volumetric, fluorescence-based process monitoring for closed-loop control	Vasileios Sergis
		Integrating Machine Learning and AI for Next-Generation Biofabrication 2	15:50	Machine learning-enabled inverse design of spherical porous scaffolds for predictive biofabrication	Wojciech Święszkowski.
B	Rectoría (Sala Mayor) Tuesday, Nov. 3 -	05 Community Building	14:00	**Keynote**: Find Your Tool, Build Your Community: A Journey to Independence in Biofabrication	Daniel Shiwarski
			14:30	**Keynote:** From Conflict to Alignment of Interests: Building Synergies Between Academia and an Independent Startup	Tomás Egaña
			14:50		
			15:10		
			15:30		
		ISBF Early Career Researchers Symposium (under construction)	15:50		
C	Business Intelligence Tuesday, Nov. 3 -	06 Biofabrication for Emerging Applications	17:00	Sustainable cellulose nanofibrils as ultrasound-driven piezoelectric interfaces for wireless neuromodulation	Kjeld Kaj Klompmaker
			17:20	Engineering, characterization, and optimization of fiber meshes with chemically and temporally distinct compartments for ELM fabrication	Robin Wilhelm
			17:40	3D printing Process Optimization in Multimaterial biofabrication: Integrating conductive Inks with photosensitive resins towards sensorized microfluidics	Miriam Seiti
			18:00	Engineering Wearable Illumination Devices for Photosynthetic Biomaterial–Mediated Oxygenation in Advanced Wound Care	Pablo Rozas
			18:20	Engineering Living Materials for Membrane-Less Host–Microbiota Compartmentalization	Ariel Cantoral-Sánchez
			18:40	Micro-CT Enables 3D Visualization of Cell–Material Interactions at Single-Cell Resolution In Vitro	Andrés Díaz Lantada
		Programming Hybrid Living–Synthetic Materials for Biofabrication Across Scales	19:00	Anisotropic rod microgels enable programmable cellular alignment and functional maturation for hierarchical tissue manufacturing	Esfandyar Askari
C	Rectoría (Sala mayor) Tuesday, Nov. 3 -	02 Advanced Bioprinting Technologies & Manufacturing Strategies	17:00	**Keynote:** Dynamically morphing printheads for omnidirectional embedded 3D printing	Mark Skylar-Scott
			17:30	**Keynote:** 3D Writing of Tendon Microphysiological Systems for Decoding Tendon Cell Mechanosignaling	Rui Domingues
			18:00	A Miniaturized Omnidirectional Bioprinting System for Complex Organ-scale Construct Fabrication	Dong Gyu Hwang
			18:20	Modelling human urinary tract morphogenesis and dysgenesis in vitro using bioprinting	Pinelopi Apostolaki
		Advances in Embedded Bioprinting for Microphysiological Systems, Tissue, and Organ Biomanufacturing	18:40		
C	Carreta Tuesday, Nov. 3 -	03 Tissue-Specific & Organ-Oriented Biofabrication	17:00	**Keynote:** Design of Biomimetic, Multilayered Silk Fibroin Biomaterials for Aortic Valve Repair	Jelena Rnjak-Kovacina
			17:30	Optoelectronic cardiac modulation and perfusable vascular conduits for cardiovascular translation	Sushila Maharjan
			17:50	Cationic ECM hydrogels for charge-mediated modulation of the pericellular ionic microenvironment to promote cardiac tissue maturation	Minji Kim
			18:10	Using Transcriptomics to decipher in vivo engineered cardiac tissue failure.	Manuel M Mazo Vega
			18:30	VOLUMETRIC BIOFABRICATION AND 3D PRINTING FOR THE DESIGN AND FABRICATION OF A HUMAN BIOLOGICAL VENTRICULAR ASSIST DEVICE	Irati Valdivielso
		Biofabrication Strategies for Cardiovascular Applications	18:50	Long-term stimulation of human engineered cardiac tissues using a novel cardiomimetic system	Norma Andrea Chagoya Pio
			19:10		
C	Rectoría (Foro) Tuesday, Nov. 3 -	02 Advanced Bioprinting Technologies & Manufacturing Strategies	17:00	**Keynote:** Cryobioprinting for Shelf-Ready Tissue Fabrication: Toward On-Demand Living Biofabrication	Y. Shrike Zhang
			17:30	Automated Cryobiomanufacturing of Human-Relevant Tissue Models for Scalable Drug Development	Carlos E Garciamendez
			17:50	Biofabrication strategies at sub-zero temperatures: From cell-laden hydrogels to soft bioelectronic constructs	Joshua Weygant
			18:10	Integrated cryobioprinting platform for controlled ice templating and predictive porous microarchitecture design	Afonso Gusmão
		Frozen Frontiers in Biofabrication	18:30	**Keynote:** Ice Templating Meets Photocrosslinking: Modular Assembly of Anisotropic Silk Biomaterials	Jelena Rnjak-Kovacina
			19:00		
C	Auditorio Expedition Tuesday, Nov. 3 -	06 Biofabrication for Emerging Applications	17:00	Biofabrication of Gellan- and Plant Protein-Based Hybrid Constructs for Cultivated Meat Incorporating Adipose Spheroids	Petra J Kluger
			17:20	Microfluidic fabrication of GelMA microgels enables myogenic maturation and modular assembly of muscle-like microtissues for cultivated meat applications	Juan F. Yee-de León
			17:40	Chaotic Bioprinting for Cultured Meat: Fabrication of Edible Gelatin-based Muscle Filaments via Enzymatic Crosslinking	Héctor Ambriz González
			18:00	Applying dynamic biomaterial designs and controlled extrusion forces towards anisotropic muscle cell development for cultivated meat	David Kilian
		Biofabrication of Food	18:20	**Keynote:** Bioprinted Hybrid Food	Y. Shrike Zhang
			18:40		Sebastian Scholpp (on behalf of Andreas Blaeser)
			18:50	From Batch to Sheet – High-speed bioprinting technology for scalable bioproduction of textured meat precursors	
C	Venture Café Tuesday, Nov. 3 -	06 Biofabrication for Emerging Applications	17:00	**Keynote:** Operating workflow for robotic-based in situ bioprinting from 3D scanning	Gabriele Maria Fortunato
			17:30	Integrating State-of-the-Art In Situ Bioprinting Technologies for Complex Tissue Reconstruction	Felipe Mateus Franco
			17:50	Design and construction of a 3D Bioprinter with an integrated superficial quality sensor for printed scaffolds.	Edgar Martinez Huaracha
			18:10	Reducing Anisotropy in Bone-surrogate PLA Implants through Multi-Axis 3D Printing	Felipe Mateus Franco
		Minimally Invasive In Situ Bioprinting	18:30	A Hand-Held Biopen Enables High-Throughput and Morphology-Controlled Fabrication of Lymphatic Spheroids/Tumoroids	Kara Van Zyl
			18:50	In-situ 3D reconstruction and non-planar trajectory generation for colorectal bioprinting	Carmelo De Maria
			19:10	Injectable Stimuli-Responsive Amphiphilic Hydrogel for Rapid Hemostasis, Tissue Adhesion, and Controlled Drug Delivery	Arvind K. Singh Chandel
D	Auditorio Expedition Wednesday, Nov. 4 -	02 Advanced Bioprinting Technologies & Manufacturing Strategies	10:00	**Keynote:** Ultra–High-Resolution Holographic Optical Tweezing Bioprinting (HOTB): Spatial Light Modulation for Unprecedented Control of Cellular Organization in Complex Tissue Microphysiology	Daniel Nieto
			10:30	Intracellular 3D printing	Liang Ma
			10:50	Engineering Tumor Microenvironments: Bioprinted Hydrogels in Breast Cancer Research	Helen Holzke-Pfaff
			11:10	Volumetric bioprinting of a perfusable tumor model for advanced drug screening applications	Nadina A Lisseglio
			11:30	3D Optical Fiber Assisted Bioprinting, a novel light-based 3d bioprinting system capable of printing high cell concentration and opaque materials	Maximilian Uwe Pfeiffle
		Shaping Biology with Light 1	11:50	Red-Light Tomographic Volumetric 3D Printing in Seconds for Fabrication of Colorless Structures	Ali Eftekhari
D	Rectoría (Foro) Wednesday, Nov. 4 -	01 Biomaterials, Hydrogels, and Bioinks	10:00	**Keynote:** Engineering Functional Protein-Based Foams for Biofabrication	Ali Ahmadi
			10:30	4D printing of responsive gelatin-based granular hydrogels	Micaela Ferandes
			10:50	Microfluidic 3D bioprinting of hierarchical macroporous scaffolds with tailored architecture and composition	Federico Serpe
			11:10	Macroporous Gelatin-based Microgel Bioinks with Tunable Mechanics for Engineering Biomimetic 3D Cell Microenvironments	Min-Hsuan Lin
		Macroporous Biomaterials for Biofabrication 1	11:30		
			11:50		
D	Carreta Wednesday, Nov. 4 -	02 Advanced Bioprinting Technologies & Manufacturing Strategies	10:00	**Keynote:** Strategies for the Hybridization of Melt Electrowriting and Melt Electrospinning with Extrusion-Based (Bio)printing	Max von Witzleben
			10:30	Towards MEW integrated multi-material biofabrication of hierarchially organised osteochondral constructs	Nupur Sharma
			10:50	3D bone printing via primed differentiation of stem cells with ultrasound (3DBonUS)	Martina Marcotulli
			11:10	Integrating chaotic patterning into continuous electrospun yarns for fibrous biomedical constructs	Omar Cano
		Pushing the Boundaries of Biofabrication through Hybrid Manufacturing 1	11:30	Multi-Axis Direct Ink Writing of Architected Hydrogel Scaffolds: Recapitulating Tissue Anisotropy for Regulated Cell Migration and Vascularization	Sabarinathan Senthil Kumar
			11:50		
D	Venture Café Wednesday, Nov. 4 -	03 Tissue-Specific & Organ-Oriented Biofabrication	10:00	**Keynote:** Tuning Hydroxyapatite Content in DLP-Bioprinted Scaffolds for Oral Bone Regeneration	Alberto Otero
			10:30	Correlative Contrast-Enhanced Micro-CT for 3D Imaging of Oral Hard-Soft Tissue Interfaces and Vascularization	Torben Hildebrand
			10:50	Bioprinted Oral Mucosa Model for Cytotoxicity Assessment of 3D-Printed Denture Base Resin	Amanda Costa Ferro
		Biofabrication for Oral Tissue Regeneration	11:10	Cisplatin-Conjugated Iron-Doped Zinc Oxide Nanoparticles as Functional Biomaterials for Enhanced Therapeutic Response in Oral Squamous Cell Carcinoma M	Rijma Khan
			11:30		
D	Rectoría (Sala mayor) Wednesday, Nov. 4 -	04 Vascularization, Microphysiological Systems & Disease Models	10:00	**Keynote:** 3D Bioprinting of Vascularized Tissue Flaps	Shulamit Levenberg
			10:30	**Keynote:** Autonomous Hybrid Bioprinting of Vascularized Tissues and Soft Bioelectronics	Yanliang Zhang
			11:00	Volumetric Bioprinting of Perfusable and Fully Endothelialized Vessels Model	Riccardo Levato
			11:20	Artificial capillaries-on-a-chip with modular control over lumen size, architecture, in situ modifications and co-culture conditions	Pranav Soman
			11:40	4D Printing of Vascularized Cardiac Tissues with Selective Fast-Shrinking Capillaries	Ester-Sapir Baruch
		Advanced 3D and 4D Bioprinting Strategies for Engineering Biomimetic, Vascularized Tissues 1	12:00	3D-Bioprinted Conductive Cardiopatches with Integrated Vascularization and Anisotropic Architecture for the Post-MI Treatment	Fang Zhou
			12:20	Self-Driving Multimaterial Bioprinting of Human Ventricular Models from Isogenic Vascularized Cardiac Microtissues and Elastomers	Caner Dikyol
			12:40		
D	Business Intelligence Wednesday, Nov. 4 -	04 Vascularization, Microphysiological Systems & Disease Models	10:00	**Keynote:** High-Throughput Biofabrication of Vascularized Organoids for AI-Driven Drug Discovery	Noo Li Jeon
			10:30	**Keynote:** Engineering Organoid Building Blocks with Controlled Oxygenation, Immune Interactions, and Dynamic Mechanical Loading	Gabriella Lindberg
			11:00	Biofabrication of human 3D neuromuscular microenvironment to study cancer-associated cachexia	Stella Monestier
			11:20	Bone Multicellular Unit on a Chip (BMU-Chip) Subjected to Cyclic Mechanical Loading	Pranav Soman
		New Approach Methodologies and the 3R Concept 1	11:40	A Foreign Body Response-on-Chip for evaluation of safety and immunocompatibility of new biomaterials	Amir Ghaemmaghami
			12:00	Anisotropic Fiber-Guided Migration Model for In Vitro Glioblastoma Studies and Drug Screening	Maya Kasteleiner
			12:20	A Recoverable Lung-on-a-Chip Platform for RNA-Based Therapeutic Screening	Dianoosh Kalhori
			12:40		
E	Rectoría (Foro) Wednesday, Nov. 4 -	01 Biomaterials, Hydrogels, and Bioinks	14:30	Self-Architectured Gels to Recreate Biomimetic Cellular Microenvironment	Dumas Simon
			14:50	Fabrication of Injectable and Stable Macroporous Fibrous Scaffolds via Fiber Entanglement	Alexander R Favela
			15:10	Developing Injectable Dual Macro-porous Hydrogels for Enhancing Therapeutic Cell Delivery	Pakshid Hosseinzadeh
			15:30	In situ printing of tissue adhesive macroporous scaffolds for regenerative medicine	Mohamadmahdi Samandari
		Macroporous Biomaterials for Biofabrication 2	15:50		
E	Rectoría (Sala mayor) Wednesday, Nov. 4 -	05 Community Building	14:00	**Keynote:**	Emilio Alarcón
			14:30	**Keynote:** From Conflict to Alignment of Interests: Building Synergies Between Academia and an Independent Startup	Tomás Egaña
			15:00	Synthesis of Hybrid PVA Nanofibers by Electrospinning with Carbon Quantum Dots as Molecular Sensor	José Daniel Tovar
			15:30	A 3D model to study Alzheimer's disease metabolic risk factors	Raúl Leera-Valencia
			15:50	Development of Biopolymer-Based Nanocomposites with Potential Applications in Healthcare	María Rodríguez
		Building the Future of Biofabrication in Latin America 1	16:10	Carbon Quantum Dot (CQD) Nanosensors for the Detection of Specific Compounds	Jimmy Castillo
			16:30		
E	Carreta Wednesday, Nov. 4 -	02 Advanced Bioprinting Technologies & Manufacturing Strategies	14:00	Engineering Gelatin–PEGDA Resins: Linking Temperature-Dependent Rheology to TVAM Performance	Katherine Houlahan
			14:20	Towards Reproducible Melt Electrowriting on an Open-Source Platform: Process Capability and Scaffold Characterization.	Raquel Tejeda
			14:40	Pore Size Regulates Time to Confluence and Thin Membrane Formation in Melt Electrowritten Microtexitle Scaffolds	Tanya Djemal
			15:00	Thermoforming Fabrication of Non-Planar Hybrid Melt Electrowritten Textiles for Tissue Engineering Applications	William J Hook
		Pushing the Boundaries of Biofabrication through Hybrid Manufacturing 2	15:20	Building community around Melt Electrowriting through the promotion of training programs and open-access systems	Javier Vazquez-Armendariz
			15:40	Resin 3D Printing Enables Accessible Hybrid-Fabrication of Microphysiological Systems (MPS) using Natural Hydrogels	Jacob Dairaghi
			16:00		

E	Venture Café Wednesday, Nov. 4 -	03 Tissue-Specific & Organ-Oriented Biofabrication	Diseased Vascular-on-Chip Models	14:30	**Keynote:** Automated high-throughput fabrication of patient-specific vessel-on-chips enables a generative AI model—Cascade Learner of Thrombosis for digital twin-based thrombosis prediction	Arnold Ju
				15:00	Patient-specific "Physical Twin" artery-on-chip platform reveals complex flow-dependent VWF mechanobiology and guides personalized antithrombotic therapy	Yunduo Charles Zhao
				15:20	Development Of A 3D Bioprinted Microporous Collagen Platform for Diagnosis/Research of Clotting Disorders	Antonio J PereiraTavares
				15:40	Effects of ECM Stiffness and PDGFB on BBB Function in an Engineered Brain Microvessel-on-a-Chip	Jonathan J. Adorno
				16:00	Engineering a Perfused Gelatin Methacryloyl (GelMA)-Based Vascular Millifluidic Platform for Advanced 3D Tissue Models	Cesare Gabriele Gaglio
E	Business Intelligence Wednesday, Nov. 4 -	03 Tissue-Specific & Organ-Oriented Biofabrication	Volumetric Skeletal, Cardiac, and Smooth Muscle Engineering	14:30	**Keynote:** Biofabrication of Vascularized Skeletal Muscle Tissue and Its Interfaces through Rotary Wet-Spinning	Marco Costantini
				15:00	**Keynote:** Engineering skeletal and cardiac muscle with (responsive) fiber scaffolds	Miguel Dias Castilho
				15:30	Non-Genetic Optical Actuation of Biofabricated Muscle Models via Organic Molecular Phototransducers	Andrea Andolfi
				15:50	Biofabricated Skeletal Muscle Tissues Reveal Multi-Scale Dysfunction and Therapeutic Rescue Under Simulated Microgravity	Beu P Oropeza
				16:10	Magnetically Driven Mechanotransduction for Enhanced Skeletal Muscle Differentiation	Sahar Salehi-Mueller
				16:30	Engineering of Functional Smooth Muscle Cell-Based Tubular Tissue	Eynav Livne
				16:50	One-step spatial photo-programming of myocyte alignment in 3D patterned hydrogels via grayscale light-sheet volumetric bioprinting	Gerardo Cedillo-Servin
E	Auditorio Expedition Wednesday, Nov. 4 -	02 Advanced Bioprinting Technologies & Manufacturing Strategies	Shaping Biology with Light 2	14:30		
				14:50	Optical Tomography enables Density Based Adaptive and Context-Aware Volumetric Printing	Riccardo Levato
				15:10	Lux Chaotic (LuCha) (Bio)Printing: A Light-Driven Platform for Hierarchically Micro-architected Hydrogel Constructs	Grissel Trujillo-de Santiago
				15:30	Mechanically heterogeneous 3D hydrogel models enabled by mechanoscribed Xolography drive cell-material interaction	Tom van Hattem
				15:50	Surface Area-to-Volume Ratio as a Design Parameter Governing Cell Proliferation and Coverage in Light-Based Bioprinted Constructs	Damian Mateo Zúñiga-Cárdenas
				16:10	Computational filamented-light: in-silico modelling for process optimization in the biofabrication of highly aligned tissue engineered constructs	Giovanni Vozzi
				16:30	Development of a digital light processing 3D bioprinted melanoma model for the characterisation of tumour cell behaviour	Kate Da Silva
F	Carreta Thursday, Nov. 5 -	01 Biomaterials, Hydrogels, and Bioinks	Hydrogels and Bioinks for Advanced and Translational Biofabrication 1	10:00	**Keynote:** Naturally Derived Photo-Crosslinkable Bioinks: Bridging Bioprinting and Controlled Delivery for Regenerative Medicine	Gilson Khang
				10:30	Carbon Dots as Intrinsic Photocatalysts and Multifunctional Therapeutic Agents for In Situ Hydrogel Biofabrication	Manuel Ahumada
				10:50	Supramolecular-covalent dynamic gelatin bioresins for advanced volumetric bioprinting of cell-permissive tissue models.	Paulina Nunez Bernal
				11:10	Regenerative Bioinks: Material-Intrinsic Properties Drive Immune-Guided Bone Repair	Tanmay Gupta
				11:30	Development of a photodegradable bioink to improve the scale and complexity of organoid tissue models	Tim Woodfield
				11:50	Development of a room-temperature printable dECM-based bioink for extrusion 3D bioprinting	Bruna Alice Gomes de Melo
				12:10	DLP-printable, stiff, tough, and fatigue-resistant hydrogels with ordered nanostructures for biomedical applications	Arkodip Mandal
				12:30	Bioinks development for 4D bioprinting of osteochondral scaffold via cell contractility-driven shape morphing	Joanna Idaszek
F	Rectoría (Sala mayor) Thursday, Nov. 5 -	06 Biofabrication for Emerging Applications	Expanding Frontiers and Emerging Applications in Biofabrication	10:00		
				10:30	Biofabrication of a Porous 3D Alveolar Model for Studying Microplastic–Lung Interactions	Silvia Farè
				10:50	Wood Cross-Sections as Scaffold for Engineered Living Bioreactors	Robert Kindler
				11:10	Bioprinting of Photosynthetic Hydrogel Constructs Using Chaotic Kenics-Based Extrusion	Daniela Gacía-Tijerina
				11:30	Bioprinting microbial harmony: Engineering spatially organized probiotic ecosystems via chaotic bioprinting	Francisco J Flores
				11:50	Production of bacterial cellulose using agro-industrial waste as a substrate and its potential use for the production of dressings	Shelsy Lanzas-López
				12:10		
F	Auditorio Expedition Thursday, Nov. 5 -	03 Tissue-Specific & Organ-Oriented Biofabrication	Closing the Design–Function Loop in Skeletal Muscle Engineering	10:00	**Keynote:** Biofabrication of Hierarchical Skeletal Muscle Models to Recapitulate Function and Metabolism	Sahar Salehi-Müller
				10:30	Chaotic-assisted Rotary Wet-Spinning (C-RoWS) for the Generation of Compartmentalized Skeletal Muscle Fibers with Embedded Fibro-Adipogenic Progenitors	Fabio Maiullari
				10:50	Perivascular stem/progenitor cells, up-and-coming tissue regenerating route.	Cesare Gargioli
				11:10	Tissue Design: profiling single-cell fates in muscle tissue engineering	Carolina Chávez Madero
				11:30	Light-Driven Biohybrid Actuator for biomedical applications	Alessandro Minali
				11:50	"Endoplasmic reticulum stress-driven in vitro model of aortic aneurysms for mechanistic studies and therapeutic targeting via Peroxisome Proliferator-Activated R	Ivan Torre-Villavalzo
F	Business Intelligence Thursday, Nov. 5 -	04 Vascularization, Microphysiological Systems & Disease Models	New Approach Methodologies and the 3R Concept 2	10:00	**Keynote:** Replicating the nano-structural and biological complexity of human bone on-a-chip	Luiz Bertassoni
				10:30	Integrating multimaterial chaotic bioprinting with 3D-printed millifluidic organ-on-chip systems to engineer and sustain perfused, microarchitected tumor niches	Mario M. Alvarez
				10:50	Quantification of CAR T-Cell Migration through Confined Tumour Microenvironments using 2PP-Printed Bio-Inspired Geometries	Valeria Gonzalez Abrego
				11:10	Biofabrication of a 3D perfusable, anatomical cancer vasculature model for integrated drug delivery studies	Estée K Grandidier
				11:30	Biofabrication strategies for evaluating cochlear implant electrodes on the bench	Ulises A Aregueta Robles
				11:50		
F	Rectoría (Foro) Thursday, Nov. 5 -	06 Biofabrication for Emerging Applications	Biofabrication for Controlled Release and Bioactive Compounds Delivery	10:00	**Keynote:** Laser-Driven Microjets for Biofabrication: The BuBble Gun as a Tool for Spatially Controlled Payload Delivery	David Fernandez Rivas
				10:30	**Keynote:** Biofabrication of Degradable Hydrogels for Controlled Delivery of Therapeutics	Khoon Lim
				11:00	Sustainable and Multifunctional Biofabrication of Electrospun Nanofibrous Constructs for Wound Healing and Controlled Drug Delivery	Ewa Kijeńska-Gawrońska
				11:20	HydroLIG: selective drug delivery via hydrogel/LIG smart actuators	Monsur Islam
				11:40	Fibrosis-mitigating materials and islet encapsulation devices for type 1 diabetes	Wanjun Liu
				12:00	Plant-Mediated Green Synthesis of Cobalt Ferrite Nanostructures for Anticancer Applications	Tehreem Sherwani
				12:20	Hybrid Biomimetic Nanoparticles for Synergistic Chemo-Immuno-Gene Therapy Evaluation Across 2D and Advanced 3D-Bioprinter Pancreatic Cancer Models	Muhammad Saif ur rehman babar
				12:40		
F	Venture Café Thursday, Nov. 5 -	02 Advanced Bioprinting Technologies & Manufacturing Strategies	Engineering Multilayered Tubular Architectures	10:00	**Keynote:** Engineering Complex and Vascularized Tissues through Advanced 3D Bioprinting	Nasim Annabi
				10:30	Double layer tubular collagen materials obtained by ice templated for vascular and tracheal applications	Francisco M. Fernandes
				10:50	Engineering a Biomimetic Trilayered Scaffold via Hybrid Electrospinning-Bioprinting for Urethral Tissue Reconstruction	Hanh A Nguyen
				11:10	Microfluidic Patterning of Human Brain Endothelial Cells for Blood Brain Barrier Models	Nicole Hashemi
				11:30		
G	Business Intelligence Thursday, Nov. 5 -	04 Vascularization, Microphysiological Systems & Disease Models	Biofabrication of Complex Cancer Models 1	14:00	**Keynote:**	Sarah Heilshorn
				14:30	Interfacial stress-mediated emergence of drug resistance is driven by cancer shape in printed breast cancer-host tissue models	Bram G Soliman
				14:50	A biofabricated tumoroid-on-chip model of ovarian cancer uncovers Pin1-driven vascular remodeling and platinum resistance	Nicole Fratini
				15:10	Tumor-on-a-chip of cocultured colorectal cancer spheroids and fibroblasts using chaotic bioprinting, for the study of Colorectal Cancer	Martha P Pérez González
				15:30	A Tumor-on-a-Chip Platform and Engineered Hydrogel System for Studying Cytotoxic Lymphocyte Infiltration into the Solid Tumor Stroma	Marco Antonio Rodriguez
				15:50	STENCL Bioprinting: A New Approach for High-Resolution Biofabrication of Tumor Avatars with Native Spatial Organization	Haylie R Helms
				16:10		
G	Carreta Thursday, Nov. 5 -	01 Biomaterials, Hydrogels, and Bioinks	Hydrogels and Bioinks for Advanced and Translational Biofabrication 2	14:00	**Keynote:** Optimization of cellular therapy protocols by using biological and synthetic scaffolds: potential clinical applications in patients with tissue injuries	Jose Cardier
				14:30	Engineered dynamic bioinks with independent biochemical and mechanosignaling for biomedical for biomedical applications	Renato Navarro
				14:50	From Light to Life: Gelatin hydrogels for light based bioprinting.	Jasper Van Hoorick
				15:10	The influence of Pore Architecture in Extrusion-Bioprinted Scaffolds for Skin Regeneration: A Systematic Review	Karina Vanzan Maio Rodrigues
				15:30	An optimized GelMA bioink formulation for high-fidelity extrusion 3D bioprinting at physiological temperature	Eduardo González-Martínez
				15:50	Engineering MMP-responsive hydrogels to prevent fibrotic activation of stromal cells in corneal wound healing	Cagla Erdas
				16:10	Multifunctional Nanoparticle Strategy for Biofabrication of Anisotropic Electroactive Tissues	Fang Zhou
				16:30	Cross-Platform Bioinks and Surface-Engineered Nanozymes Integrated in Volumetrically Printed Perfusable Tumor Models	Armin Shavandi
				16:50	Redistributing Oxygen Availability to Resolve Matrix Inhomogeneity in Engineered Human Cartilage	Lilith Mabel Caballero Aguilar
				17:10	Engineered Supramolecular Nanostructures for Tissue Regeneration	Lihi Adler-Abramovich
G	Rectoría (Sala mayor) Thursday, Nov. 5 -	02 Advanced Bioprinting Technologies & Manufacturing Strategies	Architected Microfibers: Pushing the Boundaries of MEW for Biomedical Applications	14:00	**Keynote:** Melt Electrowriting - Hotter, Better, Faster, Stronger	Simon Luposchainsky
				14:30	Multifunctional melt electrowritten composite scaffolds incorporating mesoporous SiO2–HA particles for bone tissue engineering and localized therapeutic deliver	Bahattin Koc
				14:50	Towards patient-specific vascular grafts through 4D bioprinting: Combining shape morphing, melt electrowriting and mesenchymal stromal cell incorporation	Emily Fichter
				15:10	Hydrogel–Electromagnetic Biohybrid Systems Direct Neural Morphogenesis across Central and Peripheral Systems	Menglin Chen
				15:30	Robotic Melt Electrowriting and Hydrogel Casting for Fabrication of complex anatomical structures	Mohammad Jouybar
				15:50	Melt electrowriting: from material design and hardware development to biomedical applications	Petra Mela
				16:10		
G	Venture Café Thursday, Nov. 5 -	06 Biofabrication for Emerging Applications	Organoid and Stem Cell-based Biofabrication 1	14:00	**Keynote:** Multilevel Physiological Structure Assembly and Organ Manufacturing	Qi Gu
				14:30	**Keynote:** Developmentally inspired and vision-guided bioprinting of iPSC-derived human heart tissue	Andrew Daly
				15:00	**Keynote:** SHIFT the SHAPE of Extrusion Bioprinting	Liliang Ouyang
				15:30	Biofabrication of Advanced High-through Put Screening for Cancer Therapies using Organoids and Chaotic Bioprinting	Paola Cabrera Corres
				15:50	Alginate/gelatin/silk fibroin-containing patches protect against myocardial infarction-mediated reduction in cardiac function in a murine model.	Carmine Gentile
				16:10	High-speed high-resolution spheroid bioprinting	Mariana Acedo Mestre
				16:30	Developing a 3D extrusion bioprinted model with dynamic stiffness gradients to probe hematopoietic stem cell behavior	DeShea L. Chasko
				16:50	Comprehensive evaluation of IL-17 effects on proliferation, osteogenic differentiation and the secretome of Wharton's Jelly-derived Mesenchymal Stem Cells	Bárbara Suárez Suárez Hernández
				17:10	Modeling Age-Associated Neural Dysfunction Using In Vitro Three-Dimensional Neural Tissues	Varsha Pai V
G	Rectoría (Foro) Thursday, Nov. 5 -	01 Biomaterials, Hydrogels, and Bioinks	Novel Hydrogels and Bioinks from Natural Sources 1	14:00	Beyond Chemical Modification: Native Gelatin as a Simple, Low-Cost and Valuable Platform for Light-Based Biofabrication	Andrea Cosola
				14:30	Engineering chitosan-alginate PEC biohydrogels as 3D bioprinted plant-growth substrates through pH, composition, and post-processing control	Valerio Pochetti
				14:50	Nanopolysaccharide hydrogels from pineapple and shrimp residues as material platforms for biofabrication	Marianelly Esquivel-Alfaro
				15:10	Development of Bioactive PVA/CTS-HAp Scaffolds via 3D Bioprinting: A Circular Economy Approach	Carolina Hernández Navarro
				15:30	GAG based bioink for high resolution printing of single network, high stiffness hydrogels	Helder Santos
				15:50	Copper-modified Kaolin in Vat-based 3D-bioprinted Silk-Pectin Hydrogels Synergistically Promote Osteogenesis, Angiogenesis, and Antimicrobial Properties	Yusuf O Waidi
				16:10	3D-Printable Bioadhesive for Adhesion in Wet and Physiological Environments	Margarida M. Amador Sacramento
				16:30	Nanocellulose Hydrogels with Tunable Rheology for Filament Fidelity in 3D Bioprinting	Zinia Anjuman Ara
G	Auditorio Expedition Thursday, Nov. 5 -	02 Advanced Bioprinting Technologies & Manufacturing Strategies	Frontiers in FRESH and Embedded 3D Bioprinting 1	14:00	**Keynote:** Advances in FRESH printing for multi-material biodegradable and biohybrid robots	Victoria Webster-Wood
				14:30	A FRESH-Printed Human Colon Model for In Vitro Disease Modeling and Drug Response Evaluation	Jorge Alfonso Tavares Negrete
				14:50	Advancing the bioprinting of soft tissues: from 3D neural constructs supporting cellular elongation to cerebral organoids maturation	Miriam Seiti
				15:10	Microfluidic-Assisted 3D Printing of Functionally Graded Porous Ceramic Scaffolds for Bone Tissue Engineering	María Celeste Trelli
				15:30	Development and Validation of a High-Speed Omnidirectional 3D Printer for the Rapid Biofabrication of Adult-sized Organ Constructs	Zi Chang Rao
				15:50	Embedded Bioprinting with Dual Crosslink Hydrogels: Toward Functional Blood-Brain Barrier Models	Bahattin Koc
				16:10	Direct cell writing for rapid formation of cell-dense constructs	Megan Farrow
				16:30	Chia Seed-Derived Mucilage as a Plant-Based Support Bath for Embedded Bioprinting	Bugra Ayan
H	Auditorio Expedition Thursday, Nov. 5 -	02 Advanced Bioprinting Technologies & Manufacturing Strategies	Frontiers in FRESH and Embedded 3D Bioprinting 2	17:00	**Keynote:** Designer biomaterials for diffusion-based biofabrication strategies	Sarah C Heilshorn
				17:30	A collagen fibrillation inducing support bath for embedded 3D printing of collagen-based inks	Giovanni Gonnella
				17:50	FRESH 3D Bioprinted Seminiferous Tubule-like Scaffolds	Alec J Kramer
				18:10	A Sacrificial Support Strategy for Cell-driven Compaction Prevention in Bioprinted Constructs	Eric Calderon-Robles
				18:30	Visible-Light-Cleavable Sacrificial Microgel for Embedded Bioprinting and On-Demand Dissolution	Hafez Jafari
H	Business Intelligence Thursday, Nov. 5 -	03 Tissue-Specific & Organ-Oriented Biofabrication	Biofabrication for Bone, Joint, and Musculoskeletal Interface Engineering 1	17:00	**Keynote:** Engineering regeneration: biofabricated nanostructured personalised biomaterials for musculoskeletal repair and stem cell rejuvenation in ageing	Hala zreiqat
				17:30	**Keynote:** Biofabrication in the Design of Hydrogels to Engineer Cartilaginous Tissues	Jason Burdick
				18:00	KR-12 Functionalized Collagen Ink with Antimicrobial Activity and Potential Osteogenic Support for Bone Regeneration	Carlos Palo-Nieto
				18:20	A functional atlas of chondrocyte sources for cartilage biofabrication	Philipp Fisch
				18:40	ASSOCIATION OF THREE-DIMENSIONAL SPHEROIDS OF HUMAN ADIPOSE TISSUE STROMAL CELLS WITH NANOSTRUCTURED CARBONATED HYDROXYAPATITE FOR BONE BIOENGINEERING	Leandra Santos-Baptista
				19:00	Multilayered extracellular matrix–derived scaffolds direct progenitor cell differentiation in vitro and osteochondral-tissue formation in vivo.	Giovanni Gonnella
H	Innovation Gateway Thursday, Nov. 5 -	05 Community Building	From Lab to Market: Navigating the Commercialization Landscape in Biofabrication	19:20		Mohammad Jouybar
				17:00		Jasper Van Hoorick
				17:20	From research innovation to manufacturing reality: Translating melt electrowriting at CoraMetix	Elena Juan-Pardo
				17:40	From Laboratory Success to Transferable Workflows: Challenges in Biofabrication Translation	Gregor Weisgrsb
				18:00	Forma Foods: A LATAM Journey from Plant-Based to Cell-Based Meat Substitutes	Mario Moisés Alvarez
				18:20		Jinah Jang
H	Rectoría (Sala mayor) Thursday, Nov. 5 -	04 Vascularization, Microphysiological Systems & Disease Models	Bioprinting Vascularized Tissue Constructs	17:00	**Keynote:** Bioprinting of vascularized constructs via light-based layerwise and volumetric technologies	Riccardo Levato
				17:30	**Keynote:** 3D printing of complex vascularized tissues	Tal Dvir
				18:00	Measuring the Dose of Tethered (Conjugated) Growth Factor Ligands to Chaotic Printed, Micro-channeled, Hydrogel Microvascular Appendage Sheets (MAS)	David Dean
				18:20	The construction of vascularized liver tissue and liver fibrosis model with embedded 3D bioprinting	Liang Ma
				18:40	Thermosensitive Hybrid Bioprinting for Mechanically Robust and Vascularized Bone Regeneration	Majd Machour
				19:00	Design of a 3D-printed microvascularised bio-scaffold for high-volume fat graft retention	Lara Letunica
				19:20		
H	Rectoría (Foro) Thursday, Nov. 5 -	05 Community Building	Building the Future of Biofabrication in Latin America 2	17:00	**Keynote:**	Tatiana Fiordelisio Coll
				17:30	Chaotic Bioprinting for Cultured Meat: Fabrication of Edible Gelatin-based Muscle Filaments via Enzymatic Crosslinking	Héctor Ambriz González
				18:00		MohammadMahdi Aeinehvand
				18:20		
I	Rectoría (Foro) Friday, Nov. 6 -	01 Biomaterials, Hydrogels, and Bioinks	Decellularized Tissues: Development and Applications in Wound Healing	10:00	**Keynote:** Bioinks and bioresins doped with decellularized extracellular matrix extracts to spatially control microvascular networks formation in bioprinted construct	Riccardo Levato
				10:30	**Keynote:** ECM State-Dependent Transport Governs Cellular Organization: A Preservation-Based dECM Framework from Fluid to Solid Matrices	Peter Corridon
				11:00	**Keynote:** Human derived proteins and decellularized extracellular matrix biomaterials for 3D-cell culture platforms in tissue engineering and disease modelling	João Mano
				11:30	Multifunctional dECM-derived Scaffold for Second-Degree Burn Wound Healing.	kamalipriya S S
				11:50	Green routes to sustainable keratin extraction and preparation of biomaterials for wound healing	Amrita Das
				12:10		
I	Venture Caf Friday, Nov. 6 -	05 Community Building	Education, Democratization, and Outreach	10:00	Design and construction of an open-source, low-cost bioprinter featuring a flexible design meant for future user customization	Aidan MacAdam
				10:20	Modular Environmental Control Chamber for Retrofitting a Prusa i3 into a Low-Cost Bioprinting Platform	Dominic Orozco-Salgado
				10:40	Modular adaptation of consumer-grade 3D printers for dual-mode thermoplastic and hydrogel bioprinting	J. Adán López-Castro
				11:00	Building Bioprinting Hubs in Resource-Limited Settings	Rocío Hernández-Rizo
				11:20	From Slicing to Toolpath Design: A Workflow for Hybrid Biofabrication	Lukas Weber
				11:40	Development of a low-cost fluorescent imaging technique for continuous real-time monitoring of vascular perfusion in human tissue or engineered bio-materials	Serag Saleh
				12:00		
I	Rectoría (Sala mayor) Friday, Nov. 6 -	02 Advanced Bioprinting Technologies & Manufacturing Strategies	Cryofabrication and Ice-Templated Biomaterials	10:00	**Keynote:** Biofabricated natural-based structures that came in from the cold	João Mano
				10:30	Bi-layered biomimetic flap for urethral reconstruction	Isabelle Martinier
				10:50	FROM ICE TEMPLATING TO CRYOPRESERVATION: DIRECTIONAL FREEZING AS A TOOL TO CONTROL THE CELLULAR FREEZING MICROENVIRONM	Natalia Ortiz Silva
				11:10	ENGINEERING MACROPOROUS ELECTROACTIVE BIOMATERIALS AS PLATFORMS TO STUDY THE BIOELECTRIC CODE IN OSTEOIMMUNOLOGY	Astrid de Laporte
				11:30	Anisotropic PVA-Based Hydrogels Toward Mechanically Functional Arterial Tissue Models	Ulises A Aregueta Robles
				11:50		
I	Auditorio Expedition Friday, Nov. 6 -	06 Biofabrication for Emerging Applications	Cell-Dense Biofabrication for Functional Living Tissues	10:00	**Keynote:** Engineering Complex Tissues through High-Cell-Density Bioprinting and 4D Biofabrication	Eben Alsberg
				10:30	Assembly and Characterization of a Modular Liver-on-a-Chip System using small-diameter and hepatocyte-laden electrosprayed microcapsules.	Rafael Ramos
				11:00	Microenvironmental regulation for cell-dense neurovascular biofabrication	Wanlu Li
				11:20	Geometrically Tunable Scaffold-Free Cell-Dense Muscle Bioconstructs via Modular Biofabrication for Functional Tissue Engineering	Bugra Ayan
				11:40		
				12:00		
				12:20		