

Parallel	Track	Session	Time	Oral presentations	Speaker
A	Rectoria 1 (Sala mayor) Tuesday, Nov. 3	01 Bioceramics, Hydrogels, and Biobinks	10:00	Adaptive Matrices: Engineering Next-Generation Hydrogels for Tissue and Disease Modeling 1	Elisha King Cristiana Drago Daniela Luis Gelsamir Sanjilko Paulina Nunez Bernal
			10:30		
			10:50		
			11:10		
			11:30		
	Rectoria 2 Tuesday, Nov. 3	02 Advanced Bioprinting Technologies & Manufacturing Strategies	12:10	4D Printing for Tissue Engineering and Regenerative Medicine 1	Irene Chinea Monsur Islam Ramesh Marthala Denisa Krasova Andrés Díaz Landata
			12:30		
			10:00		
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A	Carreta Tuesday, Nov. 3	02 Advanced Bioprinting Technologies & Manufacturing Strategies	11:10	Engineering Complex Tissues Through Multimaterial Biofabrication I	Yunshi Peter Yang Ana Sofia Garcia Elizabeth Riska Daniel Nieto Gabriela Maria Fortunato
			11:30		
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			12:30		
	Auditorio Expedition Tuesday, Nov. 3	03 Tissue-Specific & Organ-Oriented Biofabrication	10:00	Biofabrication of Soft Tissues 1	Guoshao Dai Sanjari Vijayakumaran Aaril Silverstein Silvia Fare Nate Pen Jessica Melina Lopes da Fonseca
			10:30		
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A	Business Intelligence Tuesday, Nov. 3	06 Biofabrication for Emerging Applications	11:50	Integrating Machine Learning and AI for Next-Generation Biofabrication 1	Daeun Kim Patrick Trayer Shiva Tonghish Andreas Baeser Karen Shen Hosain Yagci Daniel Nieto
			12:10		
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A	Venture Café Tuesday, Nov. 3	05 Community Building	11:10	Biofabrication & Industry (To be developed)	Miguel Dias Castilho Eric Silberman Savio GAMBIRI Aidee Y Arzpe Talaya
			11:30		
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			12:30		
B	Rectoria 1 (Sala mayor) Tuesday, Nov. 3	01 Bioceramics, Hydrogels, and Biobinks	14:00	Adaptive Matrices: Engineering Next-Generation Hydrogels for Tissue and Disease Modeling 2	Gregory Weisnag Poonasa Ponnathala Carmela De Maria Daniel Nieto Vasilios Serpis Pratapao Facile
			14:30		
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	Rectoria 2 Tuesday, Nov. 3	02 Advanced Bioprinting Technologies & Manufacturing Strategies	15:50	4D Printing for Tissue Engineering and Regenerative Medicine 2	Menglin Chen Monica Echeverry Rendon Pablo Varas Manuel Garcia Hernandez Joanna Iskakov
			16:10		
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B	Carreta Tuesday, Nov. 3	02 Advanced Bioprinting Technologies & Manufacturing Strategies	17:30	Engineering Complex Tissues Through Multimaterial Biofabrication 2	Rosa Angelica Gonzalez Vichits Giovanni Nozi Adrian Garcia Soham Sinha
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	Auditorio Expedition Tuesday, Nov. 3	03 Tissue-Specific & Organ-Oriented Biofabrication	19:00	Biofabrication of Soft Tissues 2	Yahel Shechter Marina Vilpi Charlotte Brice Daeun Kim Joshua Leconte
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B	Business Intelligence Tuesday, Nov. 3	06 Biofabrication for Emerging Applications	20:50	Integrating Machine Learning and AI for Next-Generation Biofabrication 2	Gregory Weisnag Poonasa Ponnathala Carmela De Maria Daniel Nieto Vasilios Serpis Pratapao Facile
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			22:10		
B	Venture Café Tuesday, Nov. 3	05 Community Building	22:30	ISBF Early Career Researchers Symposium (under construction)	Kjeld Kai Klompmaier Rohan Wadkar Yuesheng Zhang Esfaryan Aray Hosain Yagci Pablo Rozas Rui Cohen Yong Huang Rui Domingues Dong Gyu Hwang Jinho Kihye Prithvi Anandakrishnan Janyu Li
			22:50		
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C	Business Intelligence Tuesday, Nov. 3	06 Biofabrication for Emerging Applications	17:00	Programming Hybrid Living-Synthetic Materials for Biofabrication Across Scales	Jelena Rijkav-Kravits Ivan Jankovic Norma Andrea Chagoya Sushila Maharjan Naei Kim Manuel M Mauro Vela Y. Shihua Zhang Jelena Rijkav-Kravits Y. Shihua Zhang Joshua Weviant Alexis Gaudin Carlos E Garciamendez
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C	Rectoria 1 (Sala mayor) Tuesday, Nov. 3	02 Advanced Bioprinting Technologies & Manufacturing Strategies	18:50	Advances in Embedded Bioprinting for Microphysiological Systems, Tissue, and Organ Biomanufacturing	Yu Shihua Zhang Andreas Baeser Petra J Kluger Juan F. Yee de Leon Hector Ambrós-García David Klian Gabriela Maria Fortunato Felipe Nolasco Franco Edgar Martinez Huachaca Felipe Nolasco Franco Arvind K. Singh Chandel Kara Van Zyl Carmelo De Maria Daniel Nieto
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C	Carreta Tuesday, Nov. 3	03 Tissue-Specific & Organ-Oriented Biofabrication	20:30	Biofabrication Strategies for Cardiovascular Applications	Leon Ma Ali Elachar Nadine A Ulasoglu Maximilian Uwe Pfeiffle Hein Holzer-Puff May Monies Hein Holzer-Puff Ali Alimadi Fotios Serris Min-Hsun Lin Nao von Witzleben Julia Stanny Nazar Sharma Mauricio Marcolini Omri Cani Sabarinathan Senthil Kumar
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C	Rectoria 2 Tuesday, Nov. 3	02 Advanced Bioprinting Technologies & Manufacturing Strategies	22:10	Frozen Frontiers in Biofabrication	Nao von Witzleben Julia Stanny Nazar Sharma Mauricio Marcolini Omri Cani Sabarinathan Senthil Kumar
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C	Auditorio Cao Tuesday, Nov. 3	06 Biofabrication for Emerging Applications	23:50	Minimally Invasive In Situ Bioprinting	Felipe Nolasco Franco Edgar Martinez Huachaca Felipe Nolasco Franco Arvind K. Singh Chandel Kara Van Zyl Carmelo De Maria Daniel Nieto
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D	Auditorio Expedition Wednesday, Nov. 4	02 Advanced Bioprinting Technologies & Manufacturing Strategies	10:00	Shaping Biology with Light 1	Leon Ma Ali Elachar Nadine A Ulasoglu Maximilian Uwe Pfeiffle Hein Holzer-Puff May Monies Hein Holzer-Puff Ali Alimadi Fotios Serris Min-Hsun Lin Nao von Witzleben Julia Stanny Nazar Sharma Mauricio Marcolini Omri Cani Sabarinathan Senthil Kumar
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D	Rectoria 2 Wednesday, Nov. 4	01 Bioceramics, Hydrogels, and Biobinks	11:50	Macroporous Biomaterials for Biofabrication 1	Nao von Witzleben Julia Stanny Nazar Sharma Mauricio Marcolini Omri Cani Sabarinathan Senthil Kumar
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D	Carreta Wednesday, Nov. 4	02 Advanced Bioprinting Technologies & Manufacturing Strategies	13:30	Pushing the Boundaries of Biofabrication through Hybrid Manufacturing 1	Felipe Nolasco Franco Edgar Martinez Huachaca Felipe Nolasco Franco Arvind K. Singh Chandel Kara Van Zyl Carmelo De Maria Daniel Nieto
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D	Venture Café Wednesday, Nov. 4	03 Tissue-Specific & Organ-Oriented Biofabrication	15:10	Biofabrication for Oral Tissue Regeneration	Felipe Nolasco Franco Edgar Martinez Huachaca Felipe Nolasco Franco Arvind K. Singh Chandel Kara Van Zyl Carmelo De Maria Daniel Nieto
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			15:50		
			16:10		
			16:30		
D	Rectoria 1 (Sala Mayor) Wednesday, Nov. 4	04 Vascularization, Microphysiological Systems & Disease Models	16:50	Advanced 3D and 4D Bioprinting Strategies for Engineering Biomechanical, Vascularized Tissues 1	Shulamit Levenberg Yanling Zhang Gaia Zanoni Shahar Gileadi Fang Zhou Ester Sapir Baruch Prasenjit Sanyal Cesar Delgad Noa Lio Stella Monestier María M. Alazor Ami Ghaemnamahi
			17:10		
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D	Business Intelligence Wednesday, Nov. 4	04 Vascularization, Microphysiological Systems & Disease Models	18:30	New Approach Methodologies and the 3D Construct 1	Felipe Nolasco Franco Edgar Martinez Huachaca Felipe Nolasco Franco Arvind K. Singh Chandel Kara Van Zyl Carmelo De Maria Daniel Nieto
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H	Thursday, Nov. 5	Business Intelligence Thursday, Nov. 5	01 Biomaterials, Hydrogels, and Bioinks	Novel Hydrogels and Bioinks from Natural Sources 2	17:20 Nanopolysaccharide hydrogels from pineapple and shrimp residues as material platforms for biofabrication 17:40 GAG based bioink for high resolution printing of single network, high stiffness hydrogels 18:50 Nanocellulose Hydrogels with Tunable Rheology for Filament Fidelity in 3D Bioprinting 18:20 18:40	Marianelly Esquivel-Alfaro Poashant K. Sharma Zina Arjunan Ara
					17:00 Engineered dynamic bioinks with independent biochemical and mechanosignaling for biomedical for biomedical applications 17:20 From Light to Life: Gelatin hydrogels for light based bioprinting. 17:40 The Influence of Pore Architecture in Extrusion-Bioprinted Scaffolds for Skin Regeneration: A Systematic Review 18:50 An optimized GelMA bioink formulation for high-fidelity extrusion 3D bioprinting at physiological temperature 18:20 Engineering MMP-responsive hydrogels to prevent fibrosis: activation of stromal cells in corneal wound healing 18:40	
					17:00 Keynote: Bioprinting of vascularized constructs via light-based layerwise and volumetric technologies 17:30 Keynote: 3D printing of complex vascularized tissues 18:00 From avascular constructs to living tissues: engineering vascularized bioprinted skin 18:20 The construction of vascularized liver tissue and liver fibrosis model with embedded 3D bioprinting 18:40 Thermosensitive Hybrid Bioprinting for Mechanically Robust and Vascularized Bone Regeneration 19:00 Measuring the Dose of Tethered (Conjugated) Growth Factor Ligands to Chaotic Printed, Micro-channelled, Hydrogel Microvascular Appendage Sheets (MAS) 19:20 Perfusable Bioprinted Liver Constructs via Integration of Organoids and Endothelialized Channels 19:40 Design of a 3D-printed microvascularized bio-scaffold for high-volume fat graft retention 10:00 Keynote: Human derived proteins and decellularized extracellular matrix biomaterials for 3D-cell culture platforms in tissue engineering and disease modelling 10:30 Keynote: Bioinks and bioresins doped with decellularized extracellular matrix extracts to spatially control microvascular networks formation in bioprinted constructs 11:00 Keynote: ECM State-Dependent Transport Governs Cellular Organization: A Preservation-Based dECM Framework from Fluid to Solid Matrices 11:30 Multifunctional dECM-derived Scaffold for Second-Degree Burn Wound Healing 11:50 Green routes to sustainable keratin extraction and preparation of biomaterials for wound healing 12:10 Decellularized Extracellular Matrix Based Hydrogel Systems for Treating Different Wounds	
					10:00 Building an Open-Source Rheoalays Community for Biofabrication: Real-Time Coupling of Chemical Exchange and Rheological Characterization 10:20 Modular Environmental Control Chamber for Reprofitting a Prusa i3 into a Low-Cost Bioprinting Platform 10:40 Modular adaptation of consumer-grade 3D printers for dual-mode thermoplastic and hydrogel bioprinting 11:00 Building Bioprinting Hubs in Resource-Limited Settings 11:20 From Slicing to Toolpath Design: A Workflow for Hybrid Biofabrication 11:40 Design and construction of an open source, low-cost bioprinter featuring a flexible design meant for future user customization 12:00 Development of a low-cost fluorescent imaging technique for continuous real-time monitoring of vascular perfusion in human tissue or engineered bio-materials 10:00 Keynote: Biofabricated natural-based structures that came in from the cold 10:30 Bi-layered biometric flap for orbital reconstruction 10:50 FROM ICE TEMPLATING TO CRYOPRESERVATION: DIRECTIONAL FREEZING AS A TOOL TO CONTROL THE CELLULAR FREEZING MICROENVIRONMENT 11:10 ENGINEERING MACROPOROUS ELECTROACTIVE BIOMATERIALS AS PLATFORMS TO STUDY THE BIOELECTRIC CODE IN OSTEOIMMUNOLOGY 11:30 Anisotropic Pk-Based Hydrogels Toward Mechanically Functional Arterial Tissue Models	
I	Rectoria 2 Friday, Nov. 6		01 Biomaterials, Hydrogels, and Bioinks	Decellularized Tissues: Development and Applications in Wound Healing	10:00 Keynote: Human derived proteins and decellularized extracellular matrix biomaterials for 3D-cell culture platforms in tissue engineering and disease modelling 10:30 Keynote: Bioinks and bioresins doped with decellularized extracellular matrix extracts to spatially control microvascular networks formation in bioprinted constructs 11:00 Keynote: ECM State-Dependent Transport Governs Cellular Organization: A Preservation-Based dECM Framework from Fluid to Solid Matrices 11:30 Multifunctional dECM-derived Scaffold for Second-Degree Burn Wound Healing 11:50 Green routes to sustainable keratin extraction and preparation of biomaterials for wound healing 12:10 Decellularized Extracellular Matrix Based Hydrogel Systems for Treating Different Wounds	João Mano Ricardo Levato Peter Coridon kamaliyara S S Amrita Das Shahir Hassan
I	Venture Caf Friday, Nov. 6		05 Community Building	Education, Democratization, and Outreach	10:00 Building an Open-Source Rheoalays Community for Biofabrication: Real-Time Coupling of Chemical Exchange and Rheological Characterization 10:20 Modular Environmental Control Chamber for Reprofitting a Prusa i3 into a Low-Cost Bioprinting Platform 10:40 Modular adaptation of consumer-grade 3D printers for dual-mode thermoplastic and hydrogel bioprinting 11:00 Building Bioprinting Hubs in Resource-Limited Settings 11:20 From Slicing to Toolpath Design: A Workflow for Hybrid Biofabrication 11:40 Design and construction of an open source, low-cost bioprinter featuring a flexible design meant for future user customization 12:00 Development of a low-cost fluorescent imaging technique for continuous real-time monitoring of vascular perfusion in human tissue or engineered bio-materials	Sabrina Kasper Dominic Orozco-Salgado J. Adán López-Castro Rocio Hernández-Rizo Lukas Weber Jordan MacAdam Serag Saleh João Mano
I	Rectoria 1 (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 10:30 Bi-layered biometric flap for orbital reconstruction 10:50 FROM ICE TEMPLATING TO CRYOPRESERVATION: DIRECTIONAL FREEZING AS A TOOL TO CONTROL THE CELLULAR FREEZING MICROENVIRONMENT 11:10 ENGINEERING MACROPOROUS ELECTROACTIVE BIOMATERIALS AS PLATFORMS TO STUDY THE BIOELECTRIC CODE IN OSTEOIMMUNOLOGY 11:30 Anisotropic Pk-Based Hydrogels Toward Mechanically Functional Arterial Tissue Models	Isabella Martiner Natália Ortiz Silva Astrid de Laporte Ulises A Arellano Robles
I	Carreta Friday, Nov. 6		03 Tissue-Specific & Organ-Oriented Biofabrication	Biofabrication for Bone, Joint, and Musculoskeletal Interface Engineering 2	10:00 Keynote: Biofabricated Unconventional Scaffolds for Bone Tissue Engineering 10:30 3D Bioprinted Metal Implants - Plasma-Assisted Controlled Post-Processing for Tissue Integration 10:50 Hybrid Biofabrication of a Multizonal Osteochondral Interface Model Using Fibrous Scaffolds and Methacrylated Hyaluronic Acid Hydrogels 11:10 Flip-scaffold technique with biomimetic MEW/MEF fibers to recapitulate the arcade architecture of cartilage 11:30 A functional atlas of chondrocyte sources for cartilage biofabrication 11:50 ASSOCIATION OF THREE-DIMENSIONAL SPHEROIDS OF HUMAN ADIPOSE TISSUE STROMAL CELLS WITH NANOSTRUCTURED CARBONATED HYDROXYAPATITE FOR BONE BIOENGINEERING	Guido Canzi-Unal Dorela Bociaga Edvinas Rulyg Mohammad Jouybar Phillip Frisch
I	Auditorio Expedition Friday, Nov. 6		06 Biofabrication for Emerging Applications	Cell-Dense Biofabrication for Functional Living Tissues	10:00 Keynote: Engineering human in vitro models toward functional and cell-dense tissue architectures 10:30 Direct cell writing for rapid formation of cell-dense constructs 10:50 Assembly and Characterization of a Modular Liver-on-a-Chip System using small-diameter and hepatocyte-laden electrosprayed microcapsules. 11:10 A 3D model to study Alzheimer's disease metabolic risk factors 11:30 Microenvironmental regulation for cell-dense neurovascular biofabrication 11:50 Geometrically Tunable Scaffold-Free Cell-Dense Musclic Bioconstructs via Modular Biofabrication for Functional Tissue Engineering 12:10	Blanca Montenegro Mian Wang Megan Farrow Rafael Ramos Raúl Lera-Valecilla Wenliu Li Bugra Ayar