

*Posters numbered with an A are included in Poster Session 1, scheduled for Sunday, November 9, 2025, from 6:30 PM to 8:30 PM.

*Posters numbered with a B are included in Poster Session 2, scheduled for Monday, November 10, 2025, from 6:30 PM to 8:00 PM.

*Posters numbered with a C are included in Poster Session 3, scheduled for Tuesday, November 11, 2025, from 5:15 PM to 6:45 PM.

Poster No	Rapid Fire No	Rapid Fire Session	Category	Title	Poster Presenter	
A01			Biofabrication	An Effective Method To Engineer Vascularized Kidney Constructs For Translation	Timothy	Dobroski
A02	RF-53	Session 27: Rapid Fire III	Biofabrication	Integration Of An Innovative, Non-invasive, Long-lived, Robust Optical O2 Sensor Into An Automated Manufacturing System	Mike	Jacobs
A03			Biofabrication	Processing Of Placental Components For Extrusion 3d Printing	Larry	Stevens
A04			Biofabrication	Investigating Low Temperature Plasma (ltp) As An Antiviral And Antibacterial Therapeutic Facilitator	KOMAL	VIG
A06	RF-54	Session 27: Rapid Fire III	Biofabrication	Integration Of Oxygen Sensors Within 3D Biomimetic Scaffolds For Tissue Regeneration	Jean	Welter
A07			Imaging and Assessment	Development Of DNA Aptamers Targeting SaOS-2 Osteosarcoma Cells	Jean	Welter
A08			Imaging and Assessment	Multichannel Tankless Resonant Acoustic Rheometry Device For High-throughput Biomaterial Characterization	Kiera	Downey
A09			Bioreactors & Organs-on-Chips	Integrated Electrodes For Long-term Transepithelial Electrical Resistance Measurement In Organ-on-a-chip Platforms	Sara	Abu Jalboush
A10			Bioreactors & Organs-on-Chips	A Combined Modeling And Experimental Approach To Optimize Glucose Transport In Human Mesenchymal Stem Cell-based Engineered Cartilage	Nima	Baskaran
A11			Bioreactors & Organs-on-Chips	Multi-functional Solid 3d Organ Bioreactor Platform For Regenerative Medicine Applications	Po-Feng	Lee
A12			Bioreactors & Organs-on-Chips	Exploring Harmine Treatment For Type 1 Diabetes Using Ex Vivo Pancreas Perfusion	Frances	Ford
A13			Cardiovascular/Angiogenesis /Blood	3d Bioprinted Models Of Atrial Dysfunction Reveal The Role Of Cardiac-resident Macrophages In The Obese Heart	Lara	Celebi
A14			Cardiovascular/Angiogenesis /Blood	Topographic Micropatterning Influences Focal Adhesion Orientation And Protein Expression In Endothelial Cells	Pauta	Josic Dominovic
A16			Cardiovascular/Angiogenesis /Blood	Sacrificial Alginate Microfibers Mediated Vasculogenic Assembly In Dense Hydrogels	Firaol	Midekssa
A17			Cardiovascular/Angiogenesis /Blood	Evaluation Of The Tissue Specific Effects Of An Infusible Decellularized Extracellular Matrix Material In The Treatment Of Acute Myocardial Infarction	Michael	Nguyen
A18	RF-15	Session 5: Rapid Fire I	Cardiovascular/Angiogenesis /Blood	Investigation Into The Specific Inflammatory Contributors Of Bioprosthetic Heart Valve Mineralization In A Subdermal Immunodeficient Mouse Model	Chima	Ofoegbu
A19	RF-16	Session 5: Rapid Fire I	Cardiovascular/Angiogenesis /Blood	Detailed Study Of The Etiology Of Graft Stenosis In Tissue Engineered Vascular Graft In A Porcine Model	Yuta	Tsuchida
A20	RF-17	Session 5: Rapid Fire I	Cardiovascular/Angiogenesis /Blood	Clickable PEGNB Microgels Support Bioprinting And Microvascular Assembly Towards Hierarchical Vascular Applications	Irene	Zhang
A21			Cardiovascular/Angiogenesis /Blood	Photo-carbon Monoxide Releasing Molecules To Reduce Biofilm Formation In Vascular Grafts	Chris	Bashur
A22			Cardiovascular/Angiogenesis /Blood	UPI Peptides Delivered Via Microparticle Coatings To Enhance Graft Endothelialization	Chris	Bashur
A23			Musculoskeletal	Bioprinted Collagen Hydrogels With Controlled Growth Factor Delivery To Enhance Fibrocartilage Differentiation	Chris	Bashur
A24			Musculoskeletal	Efficacy And Safety Of Surgical Irrigation Solutions In Total Joint Arthroplasty: Ex Vivo Study	Fahimeh	Tabatabaei
A25			Musculoskeletal	Additive Manufacturing Of Mature Lamellar Bone Organoids Using Layer-by-layer Stacking Demineralized Bone Paper	Hyejin	Yoon

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A26			Musculoskeletal	Recapitulating Joint Calcification Using Cartilage-attached Demineralized Bone Paper	Hyejin	Yoon
A27			Musculoskeletal	Estradiol Mediates Mitochondrial Bioenergetics, Reactive Oxygen Species Production, And Antioxidant Buffering In Volumetric Muscle Loss	Jarrod	Call
A28			Musculoskeletal	Manganese Dioxide: A ROS Scavenging Nanomaterial To Target Oxidative Stress In Osteoarthritis	Blanka	Sharma
A29			Musculoskeletal	In Vitro Evaluation Of Nanofiber Scaffolds For Pubovisceral Muscle (PVM) Entesis Interface Tissue Engineering	Miryam	Adelfio
A30			Musculoskeletal	4D Printed Biphasic Collagen-Nanosilicate Construct For Bone-Ligament Repair	Diya	Babu
A31			Neural & Spine	Enhancing Schwann Cell Protection Through Stem Cell Treatment Via Modulation Of Namp1 Activity And Sarm1 Activation, Promoting Peripheral Nerve Regeneration	Anam	Anjum
A32			Neural & Spine	Synthetic Nerve Conduits For Peripheral Nerve Repair: Dip-coating Vs. Electrospinning	Dzana	Katana
A33			Neural & Spine	3D Printed Nerve Guidance Conduit For Biologics-Free Nerve Regeneration And Vascular Integration	Jacob	Schimmelman
A34			Neural & Spine	Analysis Of Muscle Recovery Following Treatment Of Rat Sciatic Nerve Injury With NeuraGen 3D Nerve Guide Conduit (NGC)	Christian	Tessman
A35			Neural & Spine	Targeted Inhibition Of Notch1 Signaling Via Functionalized Immunoliposomes For Pulmonary Fibrosis Treatment	Amal	Yaghmour
A36			Other	Adenosine: A Key Regulator Of Human Pancreatic Islet Insulin Content And A Shield Against Hypoxia Injury	Timothy	Sganga
A37			Respiratory, Urologic & Gastrointestinal	Characterizing Viral Pathogenesis Using Extracellular Vesicles From Microengineered Human Lung Tissue	Justin	Campbell
A38			Respiratory, Urologic & Gastrointestinal	Toward Biofabricated Lungs: Endothelialization Of Collagen I Gas Exchange Channels	Cecilia	Padilla
A39			Respiratory, Urologic & Gastrointestinal	Stem Cell Secretome-based Recombinant Protein Therapy For The Treatment Of Acute Kidney Injury	Ji	Hyun Kim
A40			Respiratory, Urologic & Gastrointestinal	Development And Evaluation Of A Stent-less Esophageal Graft For Treatment Of Esophageal Strictures	Laura	Modica de mohac
A41			Scaffolds, Matrices, and Biomaterials	HA-based Hydrogels For Salivary Gland Organoid Culture	Laura	Sherwood
A42			Scaffolds, Matrices, and Biomaterials	Combination Of Chemical And Physical Decellularization Methods For Animal-derived Bone Scaffolds Production	Olha	Shevchuk
A43			Scaffolds, Matrices, and Biomaterials	A Pseudoplastic Collagen-microgel Scaffold For Advanced Wound Healing	Jonathan	Velasco
A44			Scaffolds, Matrices, and Biomaterials	Development Of Anti-inflammatory Polymeric Nanoparticles With Chondroitin Sulfate	Luke	Wilson
A45			Scaffolds, Matrices, and Biomaterials	Photo-crosslinked Hydrogel-Based Surface Modification Strategies To Modulate Fibrosis In Silicone Breast Implant.	Sheetal	Yadav
A46			Scaffolds, Matrices, and Biomaterials	Tissue-specific Extracellular Matrix Cues Drive Chromatin Reprogramming During Metastatic Colonization In Colorectal Cancer Organoids	Heejeong	Yoon
A47			Scaffolds, Matrices, and Biomaterials	Real-time Optical Characterization Of Cellular Responses To Acoustic Droplet Vaporization In A 3D Fibrin-based Model	Ze Qi	Chan
A49			Scaffolds, Matrices, and Biomaterials	Real-time Monitoring Of Acoustic Droplet Vaporization For Controlled Drug Release In Ultrasound Responsive Hydrogels	Sander	Spiekhout
A51			Scaffolds, Matrices, and Biomaterials	Mucin Based Hydrogels As Drug Carriers: Modification Of The Drug Release Profile	Inaam	Khalil

Poster No	Rapid Fire No	Rapid Fire Session	Category	Title	Poster Presenter	
A52			Scaffolds, Matrices, and Biomaterials	Biomaterial Implants Recapitulate Lung Metastasis To Reveal Pro-Metastatic Neutrophil Reprogramming In Triple-Negative Breast Cancer	Rebecca	Pereles
A53			Scaffolds, Matrices, and Biomaterials	Synthetic Immunological Niche Identifies Immune Signatures Of Type 1 Diabetes Progression	Jyotirmoy	Roy
A54			Scaffolds, Matrices, and Biomaterials	Development Of A Scaffold From The Cob Of Zea Mays, L. "Choclo" To Obtain A Bone Model	Rafael	Carbajal
A56			Scaffolds, Matrices, and Biomaterials	Plant-based Sacrificial Templates To Guide The Formation Of Hierarchical Channel Networks In Volumetric Bone Scaffolds	Rana	Ibrahim
A57			Scaffolds, Matrices, and Biomaterials	BIOPRINTING PHYSIOLOGICALLY-INSPIRED 3D TUMOR MODELS USING DUAL-COLOR LIGHT-SHEET VOLUMETRIC FABRICATION	Suprima	Shrestha
A58			Scaffolds, Matrices, and Biomaterials	Injectable Dual-crosslinked Alginate Cryogels For Immune-modulatory Periodontal Regeneration	Junhan	Wang
A59	RF-38	Session 27: Rapid Fire III	Modeling	Advancements In Surface Modification And Bioactive Coatings For Organ-on-Chip Technologies	Carolina	Centeno-Cerdas
A60			Modeling	Engineering A 3D Glioblastoma Drug Delivery Platform To Probe Extracellular Matrix Interactions And Therapeutic Response	Emre	Cicek
A61			Modeling	Multicellular Three-dimensional Co-culture Spheroids Of Cancer Cells And Monocytes Recapitulate Pro-tumorigenic And Immunosuppressive Microenvironments In Brain Metastatic Breast Cancer	Shreyas	Rao
A62			Modeling	Development Of A Living Biobank Of Patient Tumors Using Hydrogels For Explant Culture	Zhuoran	Wu
A63			Stem Cells & Cell Therapies & Developmental Biology and Cell Signaling	Engineering A Detect-and-treat Cell-based Therapy For Sepsis	Sonja	Danon
A64			Stem Cells & Cell Therapies & Developmental Biology and Cell Signaling	Engineering An Antisense RNA Therapy For Treatment Of CEP290-associated Leber Congenital Amaurosis	Erin	Burnight
A65			Stem Cells & Cell Therapies & Developmental Biology and Cell Signaling	Simulating The Physicochemical Influences Of Amniotic Fluid In Human Intestinal Organoid Culture	Chaitali	Chitnis
A66			Stem Cells & Cell Therapies & Developmental Biology and Cell Signaling	Efficient Engineering Of Nonliving Mesenchymal Stem Cells For Innovative Cellular Therapies	Tiep	Nguyen
A67			Stem Cells & Cell Therapies & Developmental Biology and Cell Signaling	ECM Bioinks Compatibility With Endothelial Progenitor Cells For Bioprinting Applications	Tala	AbuSamaan
A68			Stem Cells & Cell Therapies & Developmental Biology and Cell Signaling	Microrobots For Controlling Protein Expression In Cells	Sambeeta	Das
A70			Stem Cells & Cell Therapies & Developmental Biology and Cell Signaling	Acoustic Tweezing Cytometry For Targeted Mechanical Stimulation Through Cell Surface Sialoglycans	Weiping	Li
A72			Bioreactors & Organs-on-Chips	Standardizing Pluripotent Stem Cell Manufacturing With A High-density Cryopreserved Platform	Christina	Jones
A73			Cardiovascular/Angiogenesis /Blood	Spatial Transcriptomic Profiling Of The Human Aortic Valve Reveals Cellular Sex Differences Near Sites Of Calcification	Talia	Baddour
A74			Cardiovascular/Angiogenesis /Blood	X-linked Long Non-Coding RNAs Xist And Tsix Mediate Cardiac Myofibroblast Transition	Ashley	Nguyen
A75			Cardiovascular/Angiogenesis /Blood	Developing A Tunable Tgfβ2-eluting Tissue Engineered Vascular Graft For Assessment Of Remodeling In Vitro	Tracey	Moyston
A76			Cardiovascular/Angiogenesis /Blood	Engineering Perfusable Blood Vessel Organoids In A Customized Microfluidic Platform	Ying	Wang
A77			Musculoskeletal	Full Volume Strain Characterization Of Patellar Cartilage Compression Mechanics Following Osteochondral Allograft Transplants Using Magnetic Resonance Imaging	Michael	Hernandez Lamberty
A78			Musculoskeletal	Acute Treatment With A CXCR4 Antagonist Following ACL Rupture Improves Bone Tunnel Healing	Kevin	Baker

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A79			Scaffolds, Matrices, and Biomaterials	The Effect Of Gel-ma Hydrogels From Different Sources On The Migration Of Human Osteoblast Cells From Bone Fragments	Fernanda	Zamboni
A81			Commercialization & Regulation	Extracellular Matrix Biochemistry And Biomechanics For Advanced Multipotent Stromal Cell Manufacturing	Ngan	Huang
A82			Cardiovascular/Angiogenesis /Blood	Matrix Stress Relaxation Modulates Endothelial-to-Mesenchymal Transition in Atherosclerosis	Shivesh	Anand
A83			Modeling	Effect of Hypoxia on Lymphatic Vessel Permeability and Adipose Tissue Function in 3D Microphysiological Model of Lipedema	Nicole	Estephan
B01			Biofabrication	Role Of Fibrin In The Microphysiological System Of Neuroinflammation At The Blood-brain-interface	Bumsoo	Han
B03			Biofabrication	Harnessing Organogenesis And Tissue Repair To Produce New Organs For Transplantation	Ian	Rogers
B04			Biofabrication	Synthetic Molecular And Colloidal Building Blocks To Overcome Challenges In Tissue Engineering	Laura	De Laporte
B05			Biofabrication	Comparative Analysis Of Dissection And Decellularization Methods For Frozen Vs. Fresh Human Placenta In Bioink Applications	Larry	Stevens
B07			Biofabrication	MagMix: A Modular In Situ Mixing Platform For Enhancing Bioink Homogeneity In Embedded Bioprinting	Seyedeh Ferdows	Afghah
B08			Biofabrication	Engineering A 3d Model Of Early Vs Late-stage Osteosarcoma	Gisele	Charpentier
B09	RF-01	Session 5: Rapid Fire I	Biofabrication	Matrix Mechanics And HA Composition Regulate NK Cell Infiltration In Engineered Hydrogels	Suzanne	Lightsey
B10			Biofabrication	Guiding Multidirectional Collagen Fiber Alignment Through Extrusion-based 3D Printing For Cell Alignment	Diya	Singhal
B11			Biofabrication	Characterization Of Melt-electrowritten Engineered Pediatric Pulmonary Valve Tissues For Preclinical Evaluation	Zhiyue	Zhu
B13			Biofabrication	Engineering A Hyaluronan-based Bioink For 3D Printing Of Vascularized Tissue	Shumaim	Barooj
B14			Biofabrication	Dynamics Of Collagen Droplets As Strong Predictors Of Bioprinted Print Accuracy	Julia	Bellamy
B15	RF-02	Session 5: Rapid Fire I	Biofabrication	Chaotic Printing Of Microvasculature For Bone Tissue Engineering: Micro-channeled Hydrogel Sheets	David	Dean
B17	RF-03	Session 5: Rapid Fire I	Biofabrication	Design And Optimization Of A Cost-effective Normothermic Ex Vivo Kidney Perfusion System: A Novel Approach Eliminating Rbcs And External Oxygen Supply	Chun Tat	Lui
B18	RF-04	Session 5: Rapid Fire I	Biofabrication	Melt Electrowriting And Fused Deposition Modeling 5-axis Printing Of Personalized Corneal Scaffolds	Javier	Vazquez-Armendariz
B19	RF-05	Session 5: Rapid Fire I	Bioreactors & Organs-on-Chips	Development Of A Sensor Integrated Bladder Bioreactor System For Reconstructive Procedures	Brendyn	Miller
B20	RF-06	Session 5: Rapid Fire I	Bioreactors & Organs-on-Chips	A Biomimetic Bone-like Organoid Platform As A Model For Skeletal Tissue Engineering	Genevieve	Romanowicz
B21			Bioreactors & Organs-on-Chips	Physiomimetic Microwell Platform For Biomanufacturing Human Pancreatic Isletoids	Timothy	Sganga
B24			Musculoskeletal	Short-term Mechanical Stimulation And Scaffold Stiffness Coordinate Human Articular Chondrocyte Redifferentiation Via Mechanotransduction	Sriranjani	Seshadri
B25			Musculoskeletal	Bio-inspired Muscle Fiber Fragments For Functional Recovery Of Extensive Muscle Loss	Young Min	Ju
B26			Musculoskeletal	Placental Stem Cell-seeded Biosponges For Concurrent Repair Of Muscle And Bone In Composite Injuries	Rebecca	Sheetz

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B27	RF-07	Session 5: Rapid Fire I	Musculoskeletal	Repairing Volumetric Muscle Loss With Tissue-engineered Skeletal Muscle Units In The Ovine Peroneus Tertius Muscle Model	Eileen	Su
B28	RF-45	Session 27: Rapid Fire III	Musculoskeletal	Deciphering Avascular Tissue Regeneration In The Human Knee Meniscus Via In Vitro Models	John	Bradford
B29	RF-11	Session 5: Rapid Fire I	Musculoskeletal	Extracellular Matrix Hydrogel Reduces Fibrosis In A Canine Model Of Volumetric Muscle Loss	Shanae	Butler
B30			Musculoskeletal	Modular Shape-controllable Engineered Tissues For Muscle Tissue Engineering	Ngan	Huang
B31			Musculoskeletal	Bioprinting Of Igf-1-conjugated Decellularized Muscle Fiber Fragments For Transplantable Muscle Constructs	Ji	Hyun Kim
B32			Musculoskeletal	Development Of Functionalized Acellular Muscle Fiber Fragments As An Off-the-shelf Medical Product	Ji	Hyun Kim
B33			Musculoskeletal	Elucidating Metabolic Mechanisms Of Scarless Healing To Inform Tendon Regeneration	Catherine	Kuo
B34	RF-09	Session 5: Rapid Fire I	Musculoskeletal	Understanding Mechanical Dysregulation Of Tendon Development To Inform Regeneration Strategies	Catherine	Kuo
B35	RF-08	Session 5: Rapid Fire I	Musculoskeletal	Erythroid Progenitor Activation Modulates Oxygen Tension And Enhances Bone Regeneration Following Fracture	Annemarie	Lang
B36			Musculoskeletal	Investigating Neuromuscular Crosstalk Through Trophic Factor Signaling	Amelia	Ridolfo
B37			Musculoskeletal	Regulation Of Fibrosis By Human Antigen R In Fibro-adipogenic Progenitors After Skeletal Muscle Injury	Paige	Rudy
B38	RF-10	Session 5: Rapid Fire I	Musculoskeletal	Oxygen-dependent Regulation Of Tendon Extracellular Matrix	Stephanie	Steltzer
B39			Musculoskeletal	Tissue-engineered Skeletal Muscle For Myokine Study	Toshiya	FUJISATO
B40			Musculoskeletal	Tubular Implant With Cellular Spheroids For Stimulating Diaphyseal Bone Regeneration	Alexey	Kovalev
B41			Musculoskeletal	Investigating The Effects Of Exercise On Human Primary Skeletal Muscle Models Of Aging	Brandon	Rios
B42	RF-12	Session 5: Rapid Fire I	Musculoskeletal	An Automated High Throughput 3d Engineered Heart Tissue Platform For Disease Modeling And Drug Discovery	Daniel	Sauter
B43	RF-13	Session 5: Rapid Fire I	Musculoskeletal	Light-Based 3D Printing Of Oxygen-generating Nanocomposite Scaffolds Accelerates Bone Regeneration	Anastasia B	Timoshenko
B44	RF-14	Session 5: Rapid Fire I	Musculoskeletal	Impact Of Biomanufacturing Process On Functional Outcomes Following Implantation Of A Human Tissue Engineered Muscle Repair (TEMR) Construct In A Tibialis Anterior (TA) Volumetric Muscle Loss (VML) Model In Athymic Rats.	Kira	Bourret
B45			Musculoskeletal	Gdnf Infused Biosponges For Improved Muscle Reinnervation Following Volumetric Muscle Loss	Jamshid	Tadiwala
B49			Ophthalmologic	Sustained Release Of Insulin-like Growth Factor 1 For The Treatment Of Retinal Degenerative Diseases	Sophia	Lu
B50			Ophthalmologic	An Injectable ECM-derived Microgels From Ocular Tissues For In Situ Retinal And Optic Nerve Repair	Ziyu	Wang
B51	RF-36	Session 20: Rapid Fire II	Ophthalmologic	Customized Hyaluronan-based Hydrogel As A Carrier Material For Retinal Pigment Epithelium (RPE) Cell Transplantation	Laura	Yla-Outinen
B52			Ophthalmologic	Engineering An Outer Retinal Microphysiologic System For Evaluation Of Disease Pathology And Autologous Cell Replacement	Laura	Bohrer
B53			Ophthalmologic	From Vision Correction To Disease Detection: Graphene's Role In The Next Generation Of Smart Contact Lenses	Phoebe	Hu

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B54	RF-19	Session 20: Rapid Fire II	Scaffolds, Matrices, and Biomaterials	Ecm-inspired Immunomodulatory Il-37 For Improving Outcomes Of Implanted Mesh In Aged Individuals	Bryan	Brown
B55	RF-22	Session 20: Rapid Fire II	Scaffolds, Matrices, and Biomaterials	Self-expanding Silogel Sponges With Antimicrobial And Hemostatic Functionality	Pritha	Sarkar
B56	RF-20	Session 20: Rapid Fire II	Scaffolds, Matrices, and Biomaterials	Enhancing The Migration And Differentiation Of Mesenchymal Stromal Cells In Composite Collagen Hydrogels Using Focused Ultrasound	Somnath	Maji
B57	RF-21	Session 20: Rapid Fire II	Scaffolds, Matrices, and Biomaterials	A Bioengineered Dermal-inspired Interwoven Extracellular Matrix Wound Patch Recapitulating Nativity For Promoting Diabetic Wound Healing	Feng	Zhao
B58	RF-26	Session 20: Rapid Fire II	Skin, Wound Healing, and Inflammation	Modular Fibrous Architecture Designed to Promote Integrin-VEGFR Crosstalk Enhances the Vascularization of Synthetic Nanoporous Hydrogels	Yimeng	Zhao
B59			Immunomodulation	Kinetics Of Immune Rejection Of Macroencapsulated Allogeneic And Xenogeneic Cell Grafts In Leading Transplant Sites	Tuhfah	Abdallah
B60	RF-28	Session 20: Rapid Fire II	Immunomodulation	Engineering Tolerogenic Cell Therapies With Placental Mimicry For Type 1 Diabetes	Shivani	Hiremath
B61			Immunomodulation	Cell-to-cell Communication Analysis To Interrogate Trophoblast Tolerance Induction In Placental Mimicry Cell Therapy	Jessica	Weaver
B62			Immunomodulation	Sensing Immune Fluctuations With Engineered Cellular Biosensors	Gabriela	Garza
B63	RF-29	Session 20: Rapid Fire II	Immunomodulation	Modeling Immune-ECM Crosstalk And Therapeutic Response In An Aged Breast Cancer Model	Lauren	Hawthorne
B64	RF-31	Session 20: Rapid Fire II	Immunomodulation	Damp-scavenging Scaffolds For Immunomodulation In An In Vitro Model Of Osteoarthritis	Brianna	Pryzwozny
B65			Immunomodulation	Alginate Hydrogels For Selective Recruitment And Proliferation Of Muscle-specific Regulatory T-cells	Lauren	Mottel
B66			Immunomodulation	3D Photopolymerizing Hydrogels For Natural Killer Cell Encapsulation	Rylee	Newport
B67			Immunomodulation	Anti-inflammatory Macrophage Activation And TGF- β Signaling Drive A Fibrosis-like Phenotype In Response To Oxidative Stress In A Hydrogel Model	Nana	Owusu-Boaitey
B68			Immunomodulation	Immunomodulation In Melanoma Using DSRNA-Silk Nanoparticle Complexes	Samuel	Peters
B69	RF-30	Session 20: Rapid Fire II	Immunomodulation	Antigen-conjugated Scaffolds For Enrichment Of Disease-specific T-cells	Sydney	Wheeler
B70	RF-32	Session 20: Rapid Fire II	Stem Cells & Cell Therapies & Developmental Biology and Cell Signaling	Creating A Living Intestinal Organoid Biobank: A Model System For Mechanistic Testing In GI-symptomatic Children With Autism	Yosauri	Fernandez Figuerio
B71	RF-34	Session 20: Rapid Fire II	Stem Cells & Cell Therapies & Developmental Biology and Cell Signaling	Targeting Ph-regulatory Mechanisms In Nucleus Pulposus Cells To Overcome The Acidic Barrier For Disc Regeneration	Tynhinane	Hamidouche
B72	RF-35	Session 20: Rapid Fire II	Stem Cells & Cell Therapies & Developmental Biology and Cell Signaling	Morphometric Profiling Of Mesenchymal Stem Cells As A Predictive Tool For Regenerative Medicine	Emine Berfu	Ozmen
B73	RF-33	Session 20: Rapid Fire II	Stem Cells & Cell Therapies & Developmental Biology and Cell Signaling	Improving The Efficiency Of Red Blood Cell Manufacturing	Shannon	Walen
B74			Stem Cells & Cell Therapies & Developmental Biology and Cell Signaling	Designing Hydrogel Scaffolds To Direct Stem Cell Fate And Behavior In Three-Dimensional Culture	Jacob	Schimelman
B75			Stem Cells & Cell Therapies & Developmental Biology and Cell Signaling	Adaptive Stability In Artificial Cells Through Cahs Integration	Kayta	Fu
B76			Stem Cells & Cell Therapies & Developmental Biology and Cell Signaling	Biovascular Pancreas Promotes Superior Islet Survival In Non-human Primate Transplants	Mehmet	Kural
B77			Stem Cells & Cell Therapies & Developmental Biology and Cell Signaling	Evaluation Of Mucociliary Transport In Stem Cell-derived Airway Epithelium	Golnaz	Karoubi

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B78			Stem Cells & Cell Therapies & Developmental Biology and Cell Signaling	Investigating The Role Of X Chromosome Dosage In Valvular Fibroblast Phenotype Using Patient-derived Induced Pluripotent Stem Cells	Rayyan	Gorashi
B79			Stem Cells & Cell Therapies & Developmental Biology and Cell Signaling	A Robust Droplet Microfluidic Platform For Encapsulation Of Spheroids In Hydrogel Microparticles	Aliya	Sallam
B80			Immunomodulation	Designing Carrier-free Biodegradable Nanoparticles To Ameliorate Inflammation In Psoriatic Arthritis Mouse Model	Meijuan	Lin
B81			Ophthalmologic	Exploring The Mechanism Of Rod-derived Cone Viability Factor (RdCVF) In Human Cone Photoreceptors	Ellie	Monroe
B82			Ophthalmologic	Printed To Heal: An Innovative Gelma/PRGF-based Lens For Enhanced Corneal Regeneration	Ana Carolina	Figueira
B83			Stem Cells & Cell Therapies & Developmental Biology and Cell Signaling	Advancing Engineered Human Stem Cell Therapy for Regenerating Irradiated Salivary Glands	Kerry	Pernick
C01			Biofabrication	Chaotic Bioprinted Tumour-on-chip Of Co-cultured Colorectal Cancer Spheroids And Fibroblasts, For The Study Of Colorectal Cancer	Martha	Pérez González
C02			Biofabrication	Shear Stress Modulation Of Macrophages In The Fallopian Tube Epithelium And High Grade Serous Ovarian Cancers	Nina	Treacher
C03			Biofabrication	Orchestrating Vasculogenesis Through Pore Infilling In Semi-synthetic Granular Hydrogel Composites	Michael	Hu
C04			Biofabrication	Anisotropic Strong And Tough Silk Hydrogel For Tendon Repair	Wenwen	Huang
C05	RF-51	Session 27: Rapid Fire III	Biofabrication	Multi-material 3D Bioprinting Of Human Stem Cells To Engineer Complex Human Corneal Structures With Stroma And Epithelium	Paula	Puistola
C06			Biofabrication	Dynamic Nanopore Microfluidic Targeted Electroporation For In Situ Disease Models	Emily	McCorkle
C07			Biofabrication	Flow-independent Cell Encapsulation For Simple And Scalable Microtissue Production Using A High-throughput Buoyancy-driven Microfluidic Device	Md Wahidur	Rahman
C08	RF-52	Session 27: Rapid Fire III	Biofabrication	Optimizing Ring Frequency In Esophageal Grafts: Finite Element Analysis For Enhanced Structural Support And Stability	Federica	Cosentino
C09	RF-50	Session 27: Rapid Fire III	Biofabrication	Non-Destructively Assessing Microcarrier Occupancy Using Average Acoustic Pulse Dispersion Length	Jean	Welter
C10			Dental & Craniofacial	Innovative Silk Fibroin/Hydroxyapatite Scaffolds Incorporating Mg-Doped ZnO Nanoparticles: Towards Infection-Resistant Alveolar Bone Regeneration	Fahad	Alhamoudi
C12	RF-37	Session 27: Rapid Fire III	Dental & Craniofacial	Topographical Immunoregulation To Enhance Osteogenesis Under Diabetic Conditions In In-vivo	Min Guk	Kim
C13			Dental & Craniofacial	Cell Fate Specific Inhibition Of MerTK Modulates Bone, Cartilage, And Adipose Tissue Regeneration	Justin	Redmond
C14			Scaffolds, Matrices, and Biomaterials	In Vitro Construction Of An Injectable And Self-assembling Scaffold For The Direct Delivery Of Cardiac Extracellular Matrix And Cardiac Progenitor Cells	Clotilde	Castaldo
C15			Scaffolds, Matrices, and Biomaterials	Development Of Paquinimod-loaded Implants To Target The Foreign Body Response	Cole	Weber
C16			Scaffolds, Matrices, and Biomaterials	Fabrication Of 3d Conductive Microfiber Scaffolds For Enhancing Neuronal Network Formation Under Electrical Stimulation	Faranak	Mankavi
C19			Scaffolds, Matrices, and Biomaterials	Poly(ethylene Glycol) Sponge Hydrogel Templated By Gel-gel Phase Separation	Shohei	Ishikawa
C20	RF-23	Session 20: Rapid Fire II	Scaffolds, Matrices, and Biomaterials	Defining The Role Of Matrix-bound Nanovesicles In Modulating Epithelial And Mesenchymal Cells In The Tumor Microenvironment Remodeling	Daniela	Romero
C21	RF-40	Session 27: Rapid Fire III	Scaffolds, Matrices, and Biomaterials	Matrix-bound Nanovesicles: A Novel Paradigm For Cartilage Preservation In Osteoarthritis Through Tissue Engineering Insights	Jiayang	Rong

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C22			Scaffolds, Matrices, and Biomaterials	Understanding Extracellular Matrix Feedback For Improved Cultivation	Nicholas	Colucci
C23			Scaffolds, Matrices, and Biomaterials	Nano-topography Of Graphene Nanoparticles Drives Specific Osteoblast Differentiation Of Mesenchymal Stem Cells	Madhu	Dhar
C24			Scaffolds, Matrices, and Biomaterials	Glioblastoma Cells Respond To Matrix Stress Relaxation Rate In Engineered 3D Viscoelastic Microenvironments	Sadegh	Ghorbani
C25			Scaffolds, Matrices, and Biomaterials	Dynamic Decellularized Extracellular Matrix Hydrogels Formed By Disulfide-enabled Thiol-norbornene Chemistry	Chien-Chi	Lin
C27			Scaffolds, Matrices, and Biomaterials	Tuning Of Novel Injectable Macroporous Hydrogel Scaffold Properties Influences Cell Recruitment	Mary	Dickenson
C28	RF-42	Session 27: Rapid Fire III	Scaffolds, Matrices, and Biomaterials	Machine Learning-based Early Prediction Of Type 1 Diabetes From Immunological Niche Gene Signatures	Yifei	Jiang
C29			Scaffolds, Matrices, and Biomaterials	Therapeutic Potential Of A Porcine Laryngeal ECM Biomaterial For Modulating Fibrotic Responses In Radiation-induced Skin Fibrosis	Maria	Jimenez-Socha
C30			Scaffolds, Matrices, and Biomaterials	Optimizing Decellularized Ecm Powder Production: Lyophilization And Powderization Prior To Decellularization Enhance Quality And Bioactivity	Stephanie	Kim
C31	RF-41	Session 27: Rapid Fire III	Scaffolds, Matrices, and Biomaterials	Improving Mechanical Properties And Printability Of Collagen Hydrogels Through Uva-riboflavin Crosslinking And Silk Fibroin Incorporation	Vipuit	Kishore
C32			Scaffolds, Matrices, and Biomaterials	When Should The Decellularization Be Stopped? Non-destructive Parameters To Evaluate Whole Heart Decellularization And SDS Washout	Fernanda	Mesquita
C33	RF-43	Session 27: Rapid Fire III	Scaffolds, Matrices, and Biomaterials	Liver Extracellular Matrix Exposure Induces Dormancy Signatures In Colorectal Cancer Spheroids	Lucia	Nash
C34			Scaffolds, Matrices, and Biomaterials	Fabrication And Analysis Of Nanofibrous Scaffolds Using Natural And Synthetic Materials	Bradley	Rodier
C38			Skin, Wound Healing, and Inflammation	DEVELOPING A SKIN BURN MODEL IN SKIN ORGANOIDS	Gaser	Ola
C39	RF-46	Session 27: Rapid Fire III	Skin, Wound Healing, and Inflammation	Antibacterial And Immunomodulatory Colloidal Scaffolds For The Treatment Of Burns: Recombinant Human Proteoglycan (prg4) And Minocycline In Gelatin Methacryloyl (gelma) Foam	Tannin	Schmidt
C40	RF-44	Session 27: Rapid Fire III	Skin, Wound Healing, and Inflammation	Engineering A Novel Synergistic Nanoscaffold Incorporating Green Tea And Acacia Catechu Extracts For Accelerated Healing Of Diabetic Foot Ulcers	Vivek	Radhakrishnan
C41			Skin, Wound Healing, and Inflammation	Probiotics as an Adjuvant Therapy for Inflammatory Skin Diseases in Dogs: A Randomized Controlled Trial	Monica	Cardoso
C42			Skin, Wound Healing, and Inflammation	Developing A Predictive In Vitro Model For Human Skin Wound Healing Using Biofabricated Tissue	Cintia	Horinouchi
C43			Skin, Wound Healing, and Inflammation	Controlled Releases Of Therapeutic Agents From Core-shell Nanofibrous Dressing For Infected Burn Wound Healing	MOHIT	KAMBOJ
C44			Skin, Wound Healing, and Inflammation	Optimizing Wound Healing: Effects Of Calcium In Bioactive Scaffolds	Brian	Kratt
C46	RF-24	Session 20: Rapid Fire II	Skin, Wound Healing, and Inflammation	Alleviation Of Oxidative Stress In Fibroblasts By Platinum Nanoparticle-immobilised Polycaprolactone-collagen Nanofibres	Matangi	P R
C47	RF-25	Session 20: Rapid Fire II	Skin, Wound Healing, and Inflammation	From Plants To Healing: Incorporating Aloe Vera-derived Nanoparticles Into Soy Protein Biomaterials For Enhanced Wound Healing	Nader	Rezazadeh
C48			Skin, Wound Healing, and Inflammation	Glycosaminoglycan Granular Biomaterials To Promote Wound Healing	Marietise	Torres
C49			Skin, Wound Healing, and Inflammation	Tools For Standardized Wound Creation In In Vitro And Ex Vivo Models	Mojtaba	Javid
C50			Skin, Wound Healing, and Inflammation	Effect Of Hydrolyzed Collagen On Cell Proliferation In In Vitro Wound Healing Studies	Tiffany	Sanchez

Poster No	Rapid Fire No	Rapid Fire Session	Category	Title	Poster Presenter	
C51			Skin, Wound Healing, and Inflammation	In Vitro Evaluation Of Biasurge® Advance Surgical Solution For Biofilm Prevention And Material Compatibility In Orthopedic Applications	Preethi	Sivaswaamy Mohana
C52	RF-27	Session 20: Rapid Fire II	Skin, Wound Healing, and Inflammation	Role Of Estrogen Signaling In Skin Aging And Repair	Helena	Zomer
C53			Women's Health	3d Bioprinted Autologous Vaginal Tissue Constructs For Personalized Vaginal Reconstruction	Ji	Hyun Kim
C54			Women's Health	Characterization Of Bulk Viscoelastic And Mechanical Properties Of Healthy Human Donated Fallopian Tube And Their Local Heterogeneity	Raneem	Ahmad
C55			Women's Health	Characterization Of Fallopian Tube Ciliated Epithelial Cells Under Fluid Shear Stress	Isha	Bhorkar
C56			Women's Health	Engineering A 3D Printed Microfluidic Early Gestation Placenta-on-chip	Chishiba	Chilimba
C57			Women's Health	Determining The Effect Of Klotho Protein On Wound Healing In An In Vitro Model Of Pre-fibrotic Uterine Injury	Chloe	Hincher
C58			Women's Health	Synthetic Extracellular Matrix-based Endometriotic Lesion Model And Effects Of Hormonal Conditioning On Endometriotic Markers Paep And Il20-ra	Jinal	Mehta
C59	RF-48	Session 27: Rapid Fire III	Women's Health	Reconstructing The Uterine Microenvironment Using A Tunable 3d Hydrogel Platform For Investigation Of Early Embryonic Morphogenesis In Pigs	Angie	Pannier
C60	RF-49	Session 27: Rapid Fire III	Women's Health	Fibrous Hydrogels Facilitate Matrix Remodeling In The Culture Of Human Ovarian Stromal Cells	Taylor	Schissel
C61	RF-47	Session 27: Rapid Fire III	Women's Health	Coaxial PHB-SF Electrospun Scaffolds With Optimized Mechanical And Biological Properties For Pelvic Floor Reconstruction	Rebecca	Thomson
C62			Women's Health	Mechanical And Structural Changes Due To Enzymatic Degradation Of Polyhydroxybutyrate-Silk Fibroin Electrospun Scaffolds	Rebecca	Thomson
C63			Women's Health	Engineering A Vascularized Ovary-on-a-chip Microfluidic Platform To Study Early Folliculogenesis And Ovarian Angiogenesis	Bhavya	Vats
C64			Women's Health	Studying Embryo Development Using Ex Vivo Mouse Uterine Perfusion	Jittanan	Nakpu
C65			Biofabrication	Development Of A Stable And Effective Off-the-shelf Wound Care Treatment For Combat Burn Injuries: A Preclinical Large Animal Study	Young Min	Ju
C66			Bioreactors & Organs-on-Chips	Portable Perfusion System With Integrated Incubation That Recapitulates Biomimetic Flow Conditions	Emmett	Reid
C67	RF-18	Session 5: Rapid Fire I	Cardiovascular/Angiogenesis /Blood	4d Bioprinting Of Magnet-integrated Tissue Construct To Mimic Hierarchical Architecture Of Left Ventricle	Hwanyong	Choi
C68			Musculoskeletal	Functional Heterogeneity Of Muscle Progenitor Cells In 3d Engineered Skeletal Muscle	Keely	Laurence
C69			Neural & Spine	Dual-crosslinked Thiolated Chitosan-stearic Acid With Citric Acid Injectable Hydrogel: A Novel Approach In Neural Tissue Engineering	Manini	Bhatt
C70			Scaffolds, Matrices, and Biomaterials	Development Of A Conductive Fish Gelatin-based Bioink For The Fabrication Of Cardiac Tissue Constructs	Jonah	Damian
C71			Scaffolds, Matrices, and Biomaterials	Chemokine-Induced Cell Recruitment For Biomaterial Applications	Connor	Joyce
C72			Skin, Wound Healing, and Inflammation	Low-frequency, Low-intensity Ultrasound Stimulates Angiogenesis In 3D Collagen Scaffold	Andie	McCullough
C73			Low Earth Orbit/ISS	Preparing Tissue-Engineered Co-Culture For Launch: Solutions For Maintaining Tissue-Engineered Constructs On The ISS	Hayleigh	Kahn
C74			Women's Health	Naturally-derived Electrospun Scaffolds Cross-linked With Fibronectin As An Alternative To Surgical Mesh In Women's Health Applications	Connor	Basham

Poster No	Rapid Fire No	Rapid Fire Session	Category	Title	Poster Presenter	
C75			Women's Health	Determining Sex Differences In Drug Combinations Targeting Aortic Valve Myofibroblast Activation Using A Digital Medicine Platform	Brandon	Vogt
C76			Skin, Wound Healing, and Inflammation	Vimentin Supports Cell Polarization By Enhancing Centrosome Function And Microtubule Acetylation.	Renita	Saldanha
C77			Skin, Wound Healing, and Inflammation	Safety Validation Of Pulsed Heat-shock Microfilm For Preventing Infection Transmission	Rui L	Reis
C78			Skin, Wound Healing, and Inflammation	Next-generation Self-disinfecting Microfilms For Infection Control	Rui L	Reis
C80			Scaffolds, Matrices, and Biomaterials	Pirfenidone-loaded Silk Fibroin Hydrogel Reverses Fibrosis And Inhibits Epithelial-mesenchymaltransition Bytargeting Mitochondrial Function And Cellular Mechanics Across 2-3D Dimensional Models	Varshiny	Gopinath
C82			Scaffolds, Matrices, and Biomaterials	Development Of Aligned Laminin-Functionalized Collagen Scaffolds For Skeletal Muscle Tissue Engineering	Ryann	Boudreau
C83			Scaffolds, Matrices, and Biomaterials	Optimization Of Human Myocardium Decellularization Method For The Construction Of Cardiac Patches	Franca	Di Meglio
C84			Scaffolds, Matrices, and Biomaterials	Biofunctionalized Biosilk As Tissue-specific Structural 3d-microfibers For Generation Of Physiologically Relevant Tissue Models	Evan	Graham
C85			Biofabrication	A Bioengineered 3D Organoid Platform To Model Drug Resistance In Mantle Cell Lymphoma	Salomat	Abdulkhuseynova