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2025 TERMIS-AM Conference
Detroit, Michigan
November 9-12, 2025

Wednesday, November 12, 2025

Time	HALL A	HALL B	HALL C	HALL D	HALL E
	Scientific Concurrent Sessions 7				
8:00 AM - 9:30 AM	**Session 31: Integrated Multicellular Living Systems for Biological Machinery Assembly and Regenerative Therapies** *Session Chair: Hyunjoon Kong, Sungmin Nam*	**Session 32: Trends in Disease Modeling and Treatments Using Biomaterials and Microfluidics** *Session Chairs: Luiz Bertassoni, Rui L Reis*	**Session 33: General Session on Stem Cells & Cell Therapies & Developmental Biology and Cell Signaling** *Session Chair: Nasim Annabi*	**Session 34: Cell Manufacturing for Regenerative Medicine** *Session Chair: Camilo A Mora Navarro, Maria Buendia*	**Session 35: Biofabrication of Heterogeneous Scaffolds for Regenerative Medicine** *Session Chairs: Liqun Ning, Vahid Serpooshan*
8:00 AM - 8:30 AM	8:00 AM - 8:20 AM **Keynote Lecture:** Role of fibrin in the microphysiological system of neuroinflammation at the blood-brain-interface, **Bumsoo Han**	**Keynote Lecture:** New tools to design complex 3D cancer models using microfluidics and living optical fibers, ***Rui L Reis***	Hipsc-derived Functional Salivary Gland Organoids, ***Laura Sherwood, US*** Fluid Assisted Transformation Of Fallopian Tube Secretory Epithelial Cells, ***Raneem Ahmad, US***	**Keynote Lecture:** ***Maribella Domenech***	**Keynote Lecture:** Truly Omnidirectional 3D Printing, ***Mark Skylar-Scott***
8:30 AM - 8:45 AM	8:20 AM - 8:40 AM **Keynote Lecture:** Cell Contractile Force-mediated Morphodynamic Tissue Engineering Via 4D Printed Hydrogel Scaffolds, **Eben Alsberg**	3d Pancreatic Niiche For Tracking T Cell Recruitment And Killing Of Antigen-specific Islets, ***Cherie Stabler, US***	Engineering Materials To Interrogate The Role Of The Microenvironment On Cardiac Reprogramming, ***Atticus McCoy, US***	Impact Of Microgravity On Mesenchymal Stem Cell Growth And Stemness, ***Carolina Rivera-Crespo, US***	Multimodal Shape Morphing In 4D Biofabricated Hydrogels Via Biaxial Crosslinking Gradients, ***Aixiang Ding, US***
8:45 AM - 9:00 AM	8:40 AM - 9:00 AM **Keynote Lecture:** Tissue-interfacing Biomedical Devices For Tissue Regeneration And Rehabilitation, **Sungmin Nam**	Modeling Dynamic Myeloid-fibroblast Crosstalk In Pancreatic Cancer Within A Microfluidic Platform, ***Mariana Viso, US***	Targeting Unique Mechanical Vulnerabilities In Peristalsis-associated Malignant Progression In KRAS G12C Mutant Colorectal Cancers, ***Astha Lamichhane, US***	Increasing Manufacturing Throughput Of Induced Pluripotent Stem Cell Derived Thymic Epithelial Progenitor Cells., ***Erin Parlow, US***	Development Of A Hydrogel-Based Scaffold With A Schwann Cell Density Gradient For Peripheral Nerve Regeneration, ***Kylie Schmitz, US***
9:00 AM - 9:15 AM	Bioprinting-assisted Tissue Assembly Of Hierarchically Vascularized Liver Grafts, ***Daekeun Kim, Korea***	Engineered Injectable Scaffolds As Synthetic Niches For Non-invasive Surveillance Of Metastatic Breast Cancer Progression, ***Myoungju Kang, US***	Extracellular Matrix Hydrogel Promotes The Long-term Growth And Function Of Transplantable Human Thyroid Organoids Derived From Induced Pluripotent Stem Cells, ***Paula Marin-Munoz, US***		Printing Mechanics Into Biology: Voxel-resolved Encoding Of Spatiotemporal Stiffness Directs Cell Fate And Migration, ***Maryam Tilton, US***
9:15 AM - 9:30 AM	Precisely Controlled Spheroid Encapsulation For Modulating 3D Microgel Viscoelasticity And Regulating Tissue Construct Functionality, ***Sangmin Lee, US***	In Vitro Model Of Monocyte Infiltration In An Inflammatory Tissue Environment, ***Lara Larson, US***	Optimizing An In Vitro Platform To Assess Patient Feasibility In Autologous Cartilage Repair: A Tissue Engineering Perspective, ***Amy Xie, Australia***		Bioprinting For Spatial Control Of Cell Deposition In Engineered Tissues, ***India Dykes, US***
9:30 AM - 10:00 AM	**Coffee Break**				
10:00 AM - 11:00 AM	**Plenary Speaker Session 3** Translation: From Idea to Commercial Product, ***Laura Niklason***				
11:00 AM - 11:15 AM	**Closing Ceremony**				
11:15 AM - 11:30 AM	**Transition Break**				**SYIS Student Meet Mentor Lunch**