

Presentations by CEMB Faculty, postdocs, and students

Submission Title	Authors	Tracks	Session Type	Session Title	Session Day	Presentation Start	Room
Microstructured Hydrogels for Scalable and Purified Production of Bronchial Organoids	Claudia Loebel, Jared Zepp, Edward Morrisey, Jason Burdick	Respiratory Bioengineering	Oral	Lung Development, Regeneration, and Repair	Thursday, October 17, 2019	8:15 AM-8:30 AM	Room 122A
Dynamic Hydrogel Platforms for in vitro Cardiac Models	Andrew House, Murat Guvendiren	Nano and Micro Technologies	Oral	Tissue Specific Lab-on-chip	Thursday, October 17, 2019	8:15 AM-8:30 AM	Room 115A
Combining Shear-thinning and Temporal Covalent Crosslinking in a Hyaluronic Acid Hydrogel	Victoria Muir, Sarah Gullbrand, Beth Ashinsky, Robert Mauck, Jason Burdick	Biomaterials	Oral	Hydrogels I	Thursday, October 17, 2019	8:30 AM-8:45 AM	Room 119A
Anisotropic Mechanical Strain inhibits Collagen Degradation by Collagenase	Karanvir Saini, Manu Tewari, Sankyun Cho, Aziz Jalil, Manasvita Vashisth, Jerome Irianto, Charlotte Pfeifer, Larry Dooling, Cory Alvey, Dennis Discher	Biomechanics, Cellular and Molecular Bioengineering	Oral	Mechanotransduction I	Thursday, October 17, 2019	9:00 AM-9:15 AM	Room 126A
Vimentin Intermediate Filaments Protect the Structural Integrity of the Nucleus and Suppress Nuclear Damage Caused by Large Deformations	Amir Vahabikashi, Alison Patteson, Katarzyna Pogoda, Stephen Adam, Anne Goldman, Robert Goldman, Paul Janmey	Biomechanics	Oral	Nuclear Mechanobiology	Thursday, October 17, 2019	1:45 PM-2:00 PM	Room 124
Dual Biofactor Release from Acellular Hyaluronic Acid Scaffolds for Cartilage Repair in a Pig Model	Anthony Martin, Jay Patel, Michael Eby, Mackenzie Sennett, Hannah Zlotnick, Kamiel Saleh, Andrew Chang, Matthew Davidson, James Carey, Jason Burdick, Robert Mauck	Tissue Engineering, Drug Delivery	Oral	Drug Delivery in Tissue Engineering	Thursday, October 17, 2019	2:15 PM-2:30 PM	Room 118C
Nuclear Rupture at Sites of High Curvature Compromises Retention of DNA Repair Factors	Irena Ivanovska, Yuntao Xia, Kuangzheng Zhu, Charlotte Pfeifer, Sangkyun Cho, Roger Greenberg, Dennis Discher	Biomechanics	Oral	Nuclear Mechanobiology	Thursday, October 17, 2019	2:30 PM-2:45 PM	Room 124
ZnO Composite Fibrous Scaffold for Osteochondral Defect Repair	Shuo Wang, Ateka Khader, Blanca Teran, Ashley Abanilla, Louis Rizio, Treena Arinze	Biomaterials	Oral	Biomaterials for Regenerative Medicine II	Thursday, October 17, 2019	2:30 PM-2:45 PM	Room 119B
Rescuing DNA Damage After Constricted Migration Reveals a Mechano-regulated Threshold for Cell Cycle	Zhu, Jerome Irianto, Dazhen Liu, Kalia Pannell, Emily J. Chen, Lawrence J. Dooling, Michael P. Tobin, Mai Wang, Irena Ivanovska, Lucas Smith, Roger A. Greenberg, Dennis E.	Cellular and Molecular Bioengineering, Biomechanics	Oral	Mechanotransduction III	Thursday, October 17, 2019	4:15 PM-4:30 PM	Room 126A
Platelet Lysate-Based Bioinks For 3D Printing Applications	Bárbara B. Mendes, Manuel Gómez-Florit, Andrew C. Daly, Rui M. A. Domingues, Rui L. Reis, Manuela E. Gomes, Jason A. Burdick	Biomanufacturing	Oral	Enabling Techniques for Tissue Biofabrication	Thursday, October 17, 2019	4:15 PM-4:30 PM	Room 116
Engineering Angiogenic Microenvironment of Synthetic Matrices to Enhance in vivo Vascularization	Linqing Li, Jinling Yang, Tiffany Vo, Jeroen Eyckmans, Sangeeta Bhatia, Christopher Chen	Biomaterials	Oral	Biomaterials for Regenerative Medicine III	Thursday, October 17, 2019	4:15 PM-4:30 PM	Room 119B
Multi-scale Changes in Meniscus and Cartilage in a Large Animal Model of Meniscal Unloading	Sonia Bansal, Liane Miller, Jay Patel, Kamiel Saleh, Anthony Martin, Michael Eby, Kev'ther Hoxha, Dawn Elliott, Lin Han, Miltiadis Zgonis, Robert Mauck	Orthopaedic and Rehabilitation Engineering, Biomechanics	Oral	Cartilage and Soft Tissue Mechanobiology	Thursday, October 17, 2019	5:00 PM-5:15 PM	Room 124
3D Printing of Heterogeneous Jammed Microgel Bioinks	Katrina Wisdom, Jonathan Galarraga, Jason Burdick	Biomanufacturing, Biomaterials	Poster	3D Printing and Advanced Biomaterial Manufacturing	Thursday, October 17, 2019		Exhibit Hall DE
Insilico Profiling of Kinase Domain Mutations in Cancer	Krishna Suresh, Keshav Patil, Earl Jordan, Ravi Radhakrishnan	Bioinformatics, Computational and Systems Biology, Cancer Technologies	Poster	Computational Modeling of Cancer	Thursday, October 17, 2019		Exhibit Hall DE
Biophysical Model For Microvesicle Biogenesis On Pinned Membranes	Sreeja Kutti Kandy, Ravi Radhakrishnan	Biomechanics	Poster	Mechanobiology of Cell Adhesion	Thursday, October 17, 2019		Exhibit Hall DE

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Heterogeneous Multiscale Framework for Cancer Systems Models and Clinical Applications	Alokendra Ghosh, Ravi Radhakrishnan	Bioinformatics, Computational and Systems Biology, Cancer Technologies	Poster	Computational Modeling of Cancer	Thursday, October 17, 2019		Exhibit Hall DE
Isolating the Pathological Contribution of Detyrosinated Microtubules to Human Myocardial Mechanics	Matthew Caporizzo, Christina Chen, Ken Bedi, Kenneth Margulies, Benjamin Prosser	Cardiovascular Engineering, Biomechanics	Poster	Cardiovascular Biomechanics	Thursday, October 17, 2019		Exhibit Hall DE
3D Scaffolds Fabricated via Integrated 3D Printing & Airbrushing	Chya-Yan Liaw, Christina Gedeon, Shen Ji, Shawn Huynh, Murat Guvendiren	Biomanufacturing, Biomaterials	Poster	3D Printing and Advanced Biomaterial Manufacturing	Thursday, October 17, 2019		Exhibit Hall DE
Engineered Marrow Macrophages Suppress Growth of Metastatic Models in Immunocompetent Mice	Jason Andrechak, Lawrence Dooling, Dennis Discher	Cancer Technologies	Poster	Cancer Immunoengineering	Thursday, October 17, 2019		Exhibit Hall DE
Scaling Analyses of Cancer Genome Atlas Transcriptomes For Liver, Lung, & Breast Link Lamin-B To Matrix-insensitive Proliferation And Poor Survival	Manasvita Vashisth, Sangkyun Cho, Jerome Irianto, Rebecca Wells, Dennis Discher	Cancer Technologies, Biomechanics	Poster	Cancer Mechanobiology	Thursday, October 17, 2019		Exhibit Hall DE
Mechanosensing By The Lamina Protects Against Nuclear Rupture, DNA damage, And Cell Cycle Arrest	Abbas, Yuntao Xia, Irena Ivanovska, Jerome Irianto, Manorama Tewari, Kuangzheng Zhu, Elisia Tichy, Foteini Mourikioti, Hsin-Yao Tang, Roger Greenberg, Benjamin Prosser, Dennis	Cardiovascular Engineering, Biomechanics	Poster	Cardiovascular Biomechanics	Thursday, October 17, 2019		Exhibit Hall DE
Rescue of Migration-Induced Rupture by Myosin-II Inhibition Depends on Lamin-A	Michael Tobin, Charlotte Pfeifer, Yuntao Xia, Dennis Discher	Biomechanics, Cellular and Molecular Bioengineering	Poster	Cellular and Molecular Biomechanics: Mechanobiology	Thursday, October 17, 2019		Exhibit Hall DE
Exploiting The Macrophage Checkpoint CD47-SIRPa To Enhance Gene Editing	Brandon Hayes, Nisha Sosale, Justine Lee, Dennis Discher	Cellular and Molecular Bioengineering	Poster	Molecular and Cellular ImmunoEngineering	Thursday, October 17, 2019		Exhibit Hall DE
High-curvature Pores Favor Nuclear Envelope Rupture and Lamin-B Dilution, Especially for Rapid Distension	Charlotte Pfeifer, Yuntao Xia, Lawrence Dooling, Kalia Pannell, Emily Chen, Michael Tobin, Dan Deviri, Dennis Discher	Biomechanics, Cellular and Molecular Bioengineering	Poster	Cellular and Molecular Biomechanics: Mechanobiology	Thursday, October 17, 2019		Exhibit Hall DE
Directed spheroid assembly by 3D printing within shear-thinning hydrogels	Andrew Daly, Matthew Davidson, Kwang Hoon Song, Jason Burdick	Biomanufacturing, Biomaterials	Poster	3D Printing and Advanced Biomaterial Manufacturing	Thursday, October 17, 2019		Exhibit Hall DE
The Role of Scaffold Architecture and Composition on Bone Tissue Morphogenesis	Hanxiao Huang, Sonia DSouza, Elijah Nyairo, Derrick Dean	Biomanufacturing, Biomaterials	Poster	3D Printing and Advanced Biomaterial Manufacturing	Thursday, October 17, 2019		Exhibit Hall DE
Piconewton Forces Measured Using Vinculin and α -Actinin Tension Sensors at the Sarcomere Within Induced Pluripotent Stem Cell-derived Cardiomyocytes	Palash Dutta, Anant Chopra, Paige Cloonan, Subramanian Sundaram, Jourdan Ewoldt, Christopher Chen	Biomechanics, Cellular and Molecular Bioengineering	Poster	Cellular and Molecular Biomechanics: Mechanobiology	Thursday, October 17, 2019		Exhibit Hall DE
Transcriptional Control of Cytoskeletal Remodeling and Cell Motility	Devon Mason, Sebastian Vega, Su-Jin Heo, Ryan Daniels, Jason Burdick, Robert Mauck, Joel Boerckel	Cellular and Molecular Bioengineering, Please choose an option below	Poster	Cell Migration	Thursday, October 17, 2019		Exhibit Hall DE
Normal and HCC cell response to elasticity and viscoelasticity	Kalpana Mandal, Alexis Rylander Bennett, Paul Janmey	Biomaterials, Biomechanics	Poster	Biomechanics of Biomaterials	Thursday, October 17, 2019		Exhibit Hall DE
Mechano-Active Biofactor Delivery in Regenerative Microenvironments to Enhance Cartilage Repair	Ana P. Peredo, Yun Kee Jo, Elizabeth A. Henning, Kamel S. Saleh, Daeyeon Lee, George R. Dodge, Robert L. Mauck	Drug Delivery, Tissue Engineering	Oral	Drug Delivery in Tissue Engineering and Medicine	Friday, October 18, 2019	8:00 AM-8:15 AM	Room 115B

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Microtubules Provide a Viscoelastic Resistance To Cardiac Contraction	Benjamin Prosser	Cardiovascular Engineering	Oral	Cardiomyocyte Mechanobiology and Contractility	Friday, October 18, 2019	8:00 AM-8:30 AM	Room 120A
Lipid Accumulation in Hepatocytes Disrupts the Cell Cytoskeleton and Causes Nuclear Deformation	Abigail Loneker, Rebecca Wells	Cellular and Molecular Bioengineering	Oral	Subcellular Mechanobiology	Friday, October 18, 2019	8:15 AM-8:30 AM	Room 120B
An Engineered Porcine Accessory Carpal Osteochondral Unit as a Model for Treatment of Thumb OA	Brendan Stoeckl, Hannah Zlotnick, Megan Farrell, Liane Miller, Josh Baxter, Thomas Schaer, Michael Hast, David Steinberg, Robert Mauck	Orthopaedic and Rehabilitation Engineering, Tissue Engineering	Oral	Meniscus, and Intervertebral Disc Tissue Engineering	Friday, October 18, 2019	8:15 AM-8:30 AM	Room 124
Nanoscale Biophysical Regulation of Chromatin Organization in Mesenchymal Stem Cells	Su-Jin Heo, Shreyasi Thakur, Claudia Loebel, Peter Relich, Boao Xia, Jason Burdick, Melike Lakadamyali, Robert Mauck	Cellular and Molecular Bioengineering	Oral	Subcellular Mechanobiology	Friday, October 18, 2019	8:45 AM-9:00 AM	Room 120B
Impact of Differentiation, Substrate Stiffness, and Contractility on Nesprin Expression and Localization	Ryan Daniels, Robert Mauck	Stem Cell Engineering, Biomechanics	Oral	Mechanobiology of Stem Cell Engineering	Friday, October 18, 2019	9:00 AM-9:15 AM	Room 117
Self-adhesive Fibrous Hydrogels through Multi-Fiber Electrospinning	Matthew Davidson, Ehsan Ban, Anna Schoonen, Mu-Huan Lee, Vivek Shenoy, Jason Burdick	Biomaterials	Oral	Natural and Bioinspired Biomaterials I	Friday, October 18, 2019	1:15 PM-1:30 PM	Room 119A
Alignment of Embedded Microfibers within Hydrogel Inks during Extrusion Bioprinting	Margaret Prendergast, Matthew Davidson, Gabriel Mickel, Jason Burdick	Tissue Engineering	Oral	3D Bioprinting for Tissue Engineering	Friday, October 18, 2019	1:45 PM-2:00 PM	Room 118A
Osteoprogenitor YAP and TAZ Combinatorially Promote Endochondral Fracture Repair	Christopher Kegelman, Hope Pearson, James Dawahare, Joel Boerckel	Orthopaedic and Rehabilitation Engineering	Oral	Bone Mechanics and Mechanobiology	Friday, October 18, 2019	1:45 PM-2:00 PM	Room 124
YAP and TAZ Mediate Osteoprogenitor Mobilization for Primary Ossification Center Development	Joseph Collins, Nathaniel Dymant, Joel Boerckel	Orthopaedic and Rehabilitation Engineering, Tissue Engineering	Oral	Bone, Implants, and Tissue Engineering	Friday, October 18, 2019	3:30 PM-3:45 PM	Room 124
Liver Matrix and Mechanics in the Development of Hepatocellular Carcinoma	Rebecca Wells	Cancer Technologies	Oral	Tumor Microenvironment III	Friday, October 18, 2019	3:30 PM-4:00 PM	Room 121B
Microengineered Model of the RPE-Choroid Complex for the Study of Age-Related Macular Degeneration	Sunghee Park, Wenli Yang, Dwight Stambolian, Dan Dongeon Huh	Nano and Micro Technologies, Tissue Engineering	Poster	Organ-on-Chip for Regenerative Medicine	Friday, October 18, 2019		Exhibit Hall DE
A Microphysiological Engineering Strategy for the Production of Perfusable and Vascularized Human Microtissues	Jungwook Paek, Sunghee Estelle Park, Dan Dongeon Huh	Nano and Micro Technologies, Tissue Engineering	Poster	Organ-on-Chip for Regenerative Medicine	Friday, October 18, 2019		Exhibit Hall DE
CT-guided Delivery of Injectable Hydrogels into the Myocardium	Selen Uman, Leo Wang, Zhao Liu, Stephanie Thorn, Albert Sinusas, Jason Burdick	Biomedical Imaging and Instrumentation, Translational Biomedical Engineering	Poster	Image Guided Therapies	Friday, October 18, 2019		Exhibit Hall DE
Machine Learning of Morphologic Clusters Reveals Impact of Fiber Environment on Mechanosensing	Edward Bonnevie, Beth Ashinsky, Robert Mauck	Orthopaedic and Rehabilitation Engineering, Biomechanics	Poster	Mechanobiology and Mechanotransduction	Friday, October 18, 2019		Exhibit Hall DE
3D Bioprinting Vascularized Constructs for Cancer Models	Shen Ji, Murat Guvendiren	Cancer Technologies, Please choose an option below	Poster	Microfluidic Cancer Models	Friday, October 18, 2019		Exhibit Hall DE

Submission Title	Authors	Tracks	Session Type	Session Title	Session Day	Presentation Start	Room
A Microengineered Human 'Cervix-on-a-chip'	Jeongyun Seo, Emily Tess, Lauren Farrington, Amy Brown, Michal Elovitz, Dongeun Huh	Nano and Micro Technologies, Tissue Engineering	Poster	Organ-on-Chip for Regenerative Medicine	Friday, October 18, 2019		Exhibit Hall DE
Analysis of how Structural Changes in Mutated ALK Kinase Domain Affect Drug Binding using Molecular Docking and Molecular Dynamics Simulations	Gabriela Witek, Whelton Miller, David Slochower, Yael Mossé, Mark Lemmon, Ravi Radhakrishnan	Bioinformatics, Computational and Systems Biology	Oral	Approaches to Therapy, Therapeutics, and Precision	Saturday, October 19, 2019	8:00 AM-8:15 AM	Room 122B
Metabolic Labeling to Probe Temporal Changes in the Pericellular Matrix at the Cell-Hydrogel Interface	Claudia Loebel, Mi Kwon, Tianbi Duan, Robert Mauck, Jason Burdick	Tissue Engineering	Oral	Musculoskeletal Tissue Engineering	Saturday, October 19, 2019	8:00 AM-8:15 AM	Room 118A
Macrophage Checkpoint Blockade in Cell-based Therapy of Solid Tumors in Immunocompetent Mice	Lawrence Dooling, Jason Andrechak, Ruby Pan, Dennis Discher	Cellular and Molecular Bioengineering	Oral	Immunoengineering	Saturday, October 19, 2019	8:00 AM-8:15 AM	Room 120B
Cell-Matrix Interactions in Cancer: Multiscale Chemo-Mechanical Models	Vivek Shenoy	Cancer Technologies, Biomechanics	Oral	Cancer Mechanobiology I	Saturday, October 19, 2019	8:00 AM-8:30 AM	Room 124
Graphene-Based Microdevices to Probe Effects of Electrical Stimulation on Stem Cell Behavior	Sebastian Naranjo, Akshaya Venkatakrishnan, Sebastián Vega, Deep Jariwala	Undergraduate Research & Design	Oral	Undergraduate Research & Design Orals #1	Saturday, October 19, 2019	8:18 AM-8:27 AM	Room 116
Biomaterial-Mediated Reprogramming of Cartilage Defects to Localize and Direct Stem Cell Therapies	Jay Patel, Claudia Loebel, Brian Wise, Kamiel Saleh, Jason Burdick, Robert Mauck	Tissue Engineering	Oral	Musculoskeletal Tissue Engineering	Saturday, October 19, 2019	9:15 AM-9:30 AM	Room 118A
In Situ Photocrosslinking of Non-Viscous Hyaluronic Acid Bioinks for Cartilage Engineering	Jonathan Galarraga, Mi Kwon, Jason Burdick	Biomaterials	Oral	Advanced 3D Printing Biomaterial I	Saturday, October 19, 2019	1:30 PM-1:45 PM	Room 118A
Molecular Mechanisms Regulating Arterial Stiffness In Hutchinson-Gilford Progeria Syndrome	Naira Abou-Ghali, Ryan Von Kleeck, Richard Assoian	Undergraduate Research & Design	Oral	Undergraduate Research & Design Orals #2	Saturday, October 19, 2019	1:48 PM-1:57 PM	Room 116
Zinc Promotes the Osteogenic Differentiation of Human Mesenchymal Stem Cells	Jennifer Moy, Ateka Khader, Treena Arinzeh	Stem Cell Engineering	Oral	Differentiation & Transplantation in Stem Cell Engineering	Saturday, October 19, 2019	2:30 PM-2:45 PM	Room 122A
Injectable and Conductive Granular Hydrogels for 3D Printing and Electroactive Tissue Support	Mikyung Shin, Kwang Hoon Song, Justin Burrell, D. Kacy Cullen, Jason Burdick	Biomaterials	Oral	Advanced 3D Printing Biomaterial I	Saturday, October 19, 2019	2:45 PM-3:00 PM	Room 118A
Live Cell Monitoring For Factors Affecting Genome Variation	KUANGZHENG ZHU, Yuntao Xia, Jerome Irianto, Jason Andrechak, Lawrence Dooling, Charlotte Pfeifer, Dennis Discher	Cancer Technologies, Biomechanics	Oral	Cancer Mechanobiology II	Saturday, October 19, 2019	2:45 PM-3:00 PM	Room 124
Modeling Inherited Arrhythmogenic Cardiomyopathy with CRISPR-edited Human iPSC-derived Cardiomyocytes in Engineered Cardiac Tissues	Kehan Zhang, Christopher Toepfer, Shoshana Das, Samuel Tomp, Jourdan Ewoldt, Anant Chopra, Christine Seidman, Jonathan Seidman, Christopher Chen	Cardiovascular Engineering	Oral	Electrophysiology in Development, Disease, and	Saturday, October 19, 2019	3:15 PM-3:30 PM	Room 120A
A Microengineered Human Blinking 'Eye-on-a-chip'	Jeongyun Seo, Woo Byun, Farid Farid Alisafaei, Andrei Georgescu, Yoon-Suk Yi, Giacomina Massaro-Giordano, Vivek Shenoy, Vivian Lee, Vatinée Bunya, Dongeun Huh	Nano and Micro Technologies	Oral	Organ-on-Chip for Regenerative Medicine	Saturday, October 19, 2019	3:15 PM-3:30 PM	Room 115A
Mechanical Plasticity of the Extracellular Matrix Facilitates Oscillatory Growth of Invadopodia	Ze Gong, Katrina Wisdom, Kolade Adebawale, Ovijit Chaudhuri, Vivek Shenoy	Biomechanics, Bioinformatics, Computational and Systems Biology	Oral	Computational Methods in Biomechanics	Saturday, October 19, 2019	4:15 PM-4:30 PM	Room 126A

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Determining Nanoparticle Biodistribution Using a Time Dependent Physiologically Based Pharmacokinetic Multi-Scale Model	Emma Glass, Ravi Radhakrishnan	Undergraduate Research & Design, Bioinformatics, Computational and Systems Biology	Poster	Bioinformatics, Computational and Systems Biology	Saturday, October 19, 2019		Exhibit Hall DE
Hypotonic Versus Hypertonic Microenvironments Respectively Suppress or Enhance Nuclear Rupture During Cell Migration Through Micropores	Emma Ricci-De Lucca, Lizeth Lopez, Keiann Simon, Michael Tobin, Charlotte Pfeifer, Dennis Discher	Undergraduate Research & Design, Cellular and Molecular Bioengineering	Poster	Cellular and Molecular Bioengineering	Saturday, October 19, 2019		Exhibit Hall DE
Substrate Stiffness and Contractility Regulate Nesprin Expression in 3T3 Cells	Gabriela Villalpando Torres, Ryan Daniels, Robert Mauck	Undergraduate Research & Design, Cellular and Molecular Bioengineering	Poster	Cellular and Molecular Bioengineering	Saturday, October 19, 2019		Exhibit Hall DE
Microstructured Hydrogels For Controlled Formation Of Bronchial Organoids	Christina D. Hummel, Claudia Loebel, Jason A. Burdick	Undergraduate Research & Design, Respiratory Bioengineering	Poster	Respiratory Bioengineering	Saturday, October 19, 2019		Exhibit Hall DE
Analyzing Alignment of Cardiomyocytes on Patterned vs Flat Scaffolds	Iren Atalla, Andrew House, Erica Gjini, Victoria Youssef, Murat Guvendiren	Undergraduate Research & Design, Tissue Engineering	Poster	Tissue Engineering	Saturday, October 19, 2019		Exhibit Hall DE
Recruitment of the Arp2/3 Complex Reverses Cadherin-driven Contractile Cytoskeletal Reorganization and Contributes to the Closing of Endothelial Gaps	Tal Sneh, Eoin McEvoy, Xingyu Chen, Tatyana Svitkina, Vivek Shenoy	Undergraduate Research & Design, Bioinformatics, Computational and Systems Biology	Poster	Bioinformatics, Computational and Systems Biology	Saturday, October 19, 2019		Exhibit Hall DE
Quantitative Spatial Mapping of Osteoblast Lineage Progression in Embryonic Development	Caleb Jones, Joseph Collins, Nathaniel Dymant, Joel Boerckel	Undergraduate Research & Design, Orthopaedic and Rehabilitation Engineering	Poster	Orthopaedic and Rehabilitation Engineering	Saturday, October 19, 2019		Exhibit Hall DE
Studying Primary Sclerosing Cholangitis with a Vascular Biliary Model	Dax Craig, Yu Du, William Polacheck, Rebecca Wells	Undergraduate Research & Design, Biomechanics	Poster	Biomechanics	Saturday, October 19, 2019		Exhibit Hall DE
Nuclear And Cytoskeletal Mechanical Stress Generated By Short Chain Fatty Acids In Huh7 Cells	Alejandra Jiménez Escobar, Abigail Loneker, Rebecca Wells	Undergraduate Research & Design, Cellular and Molecular Bioengineering	Poster	Cellular and Molecular Bioengineering	Saturday, October 19, 2019		Exhibit Hall DE
Compression Behavior of 3D Printed Bone Tissue Scaffolds	Tarik Simpson, Dean Moore, Antwan Parker, Hanxiao Huang, Derrick Dean	Undergraduate Research & Design, Biomaterials	Poster	Biomaterials	Saturday, October 19, 2019		Exhibit Hall DE