

University of Oregon Knight Campus, Department of Bioengineering					
BMES Posters and Presentations					
Name	Presenting	Title	Time	Track	
Alycia Galindo	talk	Innovations in Regenerative Medicine: Focusing on Endometrium, Muscle, and Wound Healing session	Thurs, Oct 12, 8:15-8:30am		
Alyson March	poster	Design of experiments to optimize PEG-based hydrogels to promote vascularization for bone tissue engineering applications	Thurs, Oct 12, 2-3pm, B-57	Biomaterials	
Iman von Briesen	poster	Revolutionizing Biomedical Research: High-resolution scaffold fabrication via an open-source melt electrowriting platform	Thurs, Oct 12, 9:30-10:30am, C-81	Biomaterials	
Guilherme Rocha	poster	3D-bioprinting of Streptococcus mutans to create model oral biofilms	Thurs, Oct 12, 9:30-10:30am, D-123	Biomaterials	
Sean Worrall	poster	Conductive Coatings to Improve Neural Stimulation Devices	Thurs, Oct 12, 9:30-10:30am, I-339	Neural Engineering	
Max Tenenbaum	poster	Optimal Encapsulation for Neural Interface Devices: A Comparative Study of Polydimethylsiloxane and Bio-Epoxy	Thurs, Oct 12, 9:30-10:30am, I-359	Neural Engineering	
Haley Mae Lohf	poster	Exploration Into the Future; Neural Interfaces and Accelerated Aging	Thurs, Oct 12, 9:30-10:30am, I-357	Neural Engineering	
Madeline Martin	poster	Computational Design of Specific Protein Binders with Varying Affinities for Interleukin-4	Thurs, Oct 12, 9:30-10:30am, D-157	Cellular and Molecular Bioengineering	
Will Skinner	poster	Magnetoelastic Sensing Platform for Evaluating the Effects of Heparin/Collagen Layer-by-Layer Coatings	Thurs, Oct 12, 9:30-10:30am, B-73	Biomaterials	
			Talk: Thurs, Oct 12, 9:07-9:14am		
Jonathan Dorogin	poster and talk	Dual affibody-conjugated hydrogels tune the co-delivery and activity of immunomodulatory and osteogenic proteins	Poster: Thurs, Oct 12, 2-3pm, H-283	Orthopedic and Rehabilitation Engineering	
Auveen Hajarizadeh	poster	The Impact of Rehabilitation Parameters on Bone Healing Depends on Injury Size	Thurs, Oct. 12, 2-3pm, G-275	Orthopedic and Rehabilitation Engineering	
Nisha Kyathsandra	poster	Analyzing functional gait and weight bearing metrics for rat medial meniscal transection (MMT) and non-invasive knee injury (NIKI) models of post-traumatic osteoarthritis (PTOA)	Thurs, Oct 12, 2-3pm, G-264	Orthopedic and Rehabilitation Engineering	
Kaylee Meyers	poster	Force Tunable Pledget Sensors to Monitor Loading in Tendon and Ligament Sutures During Post-Operative Physical Therapy	Thurs, Oct 12, 2-3pm, H-294	Orthopedic and Rehabilitation Engineering	
Danielle Benoit		BMES Class of 2023 Fellow	Thurs, Oct 12, 4:30-5:10pm		
Jarod Forer	poster	Particle Size Dictates Transport Dynamics in the Rat Achilles Tendon	Fri, Oct 13, 9:30-10:30am, D-156	Biomechanics	

Annika Deans	poster	Engineering a Retinal Pigment Epithelium Mimetic Using Tunable PEG Hydrogels	Fri, Oct 13, 9:30-10:30am, C-105	Biomaterials		
Patrick Hall	poster	Melt Electrowriting in Color: Introducing fluorescence to a high precision 3D printing technology	Fri, Oct 13, 9:30-10:30am, C-81	Biomaterials		
Kelly O'Neill	poster	Peptide-modified, hydrogel-coated melt electrowritten scaffolds with planar and tubular morphology	Fri, Oct 13, 9:30-10:30am, A-12	Biomaterials		
Jenna Khachatourian	poster	Hyaluronic Acid-Alginate Hydrogels for the Treatment of Spinal Cord Injuries	Fri, Oct 13, 9:30-10:30am, B-78	Biomaterials		
Juan Garcia	poster	Protein Delivery Through Affibody Conjugated Polyethylene Glycol Hydrogels	Fri, Oct 13, 9:30-10:30am, C-109	Biomaterials		
Eyerusalem Gebreyesus	poster	Implantable Magnetohydrodynamics Pump to Generate Fluid Flow at a Femur Fracture	Fri, Oct 13, 9:30-10:30am, H-317	Device Technologies and Biomedical Robotics		
Diana Ostojich	poster	Two-Photon Printed, 3-D Microelectrode Arrays for Intraneural Recording	Fri, Oct 13, 9:30-10:30am, K-429	Neural Engineering		
Alexander Schachtner	poster	Two-Photon Printed, 3-D Microelectrode Arrays for Intraneural Recording	Fri, Oct 13, 9:30-10:30am, K-429	Neural Engineering		
Nick Pancheri	poster	Anterior cruciate ligament rupture via a non-invasive knee injury causes structural cartilage degeneration, increased pain sensitivity, and impaired limb function in a preclinical rat model.	Fri, Oct 13, 9:30-10:30am, L-452	Orthopedic and Rehabilitation Engineering		
Jake Heinonen	poster	A Non-Invasive Compressive Loading Injury Model for Anterior Cruciate Ligament Rupture in Rodents	Fri, Oct 13, 9:30-10:30am, L-454	Orthopedic and Rehabilitation Engineering		
Lia Strait	poster	Effects of Prehabilitation Exercise on Segmental Defect Bone Healing	Fri, Oct 13, 9:30-10:30am, L-448	Orthopedic and Rehabilitation Engineering		
Justin Svendsen	poster	Applying Directed Evolution and Rational Design to Generate Affinity-Based Delivery Systems for Angiogenic Growth Factors	Fri, Oct 13, 9:30-10:30am, A-7	Biomaterials		
Julia Harrer	talk	Early Rehabilitation Promotes Functional Recovery In Segmental Bone Defects; Session: Cartilage II, Tendon, Ligament	Fri, Oct 13, 2-2:15pm			
Yan Carlos Pacheco	poster	Affibody-Conjugated Polyethylene Glycol Hydrogels Tailor Release of Human Mesenchymal Stromal Cell Secretome	Fri, Oct 13, 3:30-4:30pm, L-476	Orthopedic and Rehabilitation Engineering		
Morrhyssey Benz	poster	Immunomodulation for tissue repair through affinity-based binding partners	Fri, Oct 13, 3:30-4:30pm, J-380	Immunoengineering		
Frank Pittman	poster	Shifting the balance of inflammatory and pro-resolving lipid mediators in volumetric muscle loss (VML) injury	Fri, Oct 13, 3:30-4:30pm, J-366	Immunoengineering		
Rubiya Yasmin	poster	Microstimulation of Amorphous Silicon Carbide and Polyimide Microelectrode Arrays Implanted in the Rat Motor Cortex	Sat, Oct 14, 9:30-10:30am, M-497	Neural Engineering		
Madeleine Ford	poster	Characterization of VEGF Specific Affibodies for Use in Complex Wound Healing	Sat, Oct 14, 9:30-10:30am, L-448	Drug Delivery		