

Time	Activity	Location
8:30-9:00am	Registration / Coffee	Knight Campus Lobby
9:00-10:00am	Opening Ceremony	Beetham Seminar Room / Live-streamed in Seminar Room 156-158
Welcome from OBS Chairs Gabriella Lindberg and Paul Dalton		
<i>Adam Higgins, Professor in Chemical, Biological, and Environmental Engineering, Oregon State University - Talk Title TBD</i>		
<i>Danielle Benoit, Lorry Lokey Chair of the Department of Bioengineering, University of Oregon - Talk Title TBD</i>		
<i>Owen McCarty, Chair of the Biomedical Engineering Department, School of Medicine, Oregon Health & Science University - Talk Title TBD</i>		
10:00-10:30am	BREAK	
10:30am-12:00pm	Morning Session A	Beetham Seminar Room
Lightning Talks:		
<i>Iman von Briesen, "The MEWron-Transforming biomedical research with an affordable, open-source high-resolution printing platform"</i>		
<i>Haylie Helms, "Building Tissues with Single Cell Spatial Resolution Using Microfluidic Bioprinting"</i>		
<i>Cameron Sugden, "Microfluidic UV-C Treatment of Human Milk to Inactivate Pathogens"</i>		
<i>Mary Kylene Lowrey, "Ultrasound-Controlled Genetic Manipulation of Cells and Spheroids in 3D-Bioprinted Tissue Constructs"</i>		
<i>Jarod Forer, "Microcirculation Dynamics in the Rat Achilles Tendon"</i>		
Excellence in Research Award Nomination Talks:		
<i>Yan Carlos Pacheco, "Hyaluronic Acid Hydrogels Aid in BMP-2 Mediated Bone Formation Subcutaneously"</i>		
<i>Krista Habing, "Regenerative Engineering and Rehabilitation in Musculoskeletal Injury- Considering Age"</i>		
<i>Sruthi Ranganathan, "Bone-binding PEG-4MAL microparticles for a targeted therapeutic approach to treating post-traumatic osteoarthritis"</i>		
<i>Angel-Rose Villegas, "Hippocampal Neuroplasticity and Sleep are Impaired in a Model of Inflammatory Knee Pain"</i>		
<i>Cynthia Alcazar, "Regenerative Engineering of Complex Extremity Trauma"</i>		
10:30am-12:00pm	Morning Session B	Seminar Room 156-158
Lightning Talks:		
<i>Rebecca Frederick, "Peripheral Nerve Interfaces and a Tool to Predict Stimulation-Induced Neural Tissue Damage"</i>		
<i>Michael Henderson, "Amplifying Cancer Biomarker Release and Immune Stimulation using Ultrasound-Responsive Nanoparticles"</i>		
<i>Khadijeh Khederlou, "Utilizing Nafion antifouling coatings on stencil-printed electrodes for sensitive electrochemical detection of the therapy drug carbamazepine from saliva"</i>		
<i>Sayandeep Gupta, "Large scale expression of human proteome antigen libraries in E. coli"</i>		
<i>Delaney Shea, "Investigating the cellular uptake and cargo delivery of engineered dual-labeled bacterial membrane vesicles in vitro"</i>		
Bioengineering Session I:		
<i>Nima Ahmadkhani, "Advancing Cryopreservation- Simultaneous High-Throughput Screening of Cell Membrane Permeability and Toxicity for Discovery of Novel Cryoprotective Agents"</i>		
<i>Tristan Hormel, "Wide-field and High-resolution Coupled Structural and Angiographic OCT"</i>		
<i>Malley Gautreaux, "Investigating interactions between cartilage and synovial fluid in a 3D model of post-traumatic osteoarthritis"</i>		
<i>Christian Ross, "Dielectrophoretic extraction and PCR amplification of nucleic acids from unaltered plasma"</i>		
<i>Teresa Rapp, "Self-Illuminating Hydrogels for Phototriggered Drug Delivery"</i>		
12:00-1:30pm	Lunch and Poster Session	
Boxed Lunches available for pick-up on 2 nd Floor Terrace. Poster Session located throughout the building. See list and map in the program booklet for locations.		
1:30-2:45pm	Afternoon Session A	Beetham Seminar Room
<i>Bala Ambati, Research Professor for the Knight Campus, UO; Ophthalmologist, Pacific Clear Vision Institute - Talk Title TBD</i>		
<i>Daniel Fitzpatrick, Orthopedic Surgery Specialist, Slocum Orthopedics - Talk Title TBD</i>		
<i>Michael Bottlang, Director, Legacy Biomechanics Laboratory - Talk Title TBD</i>		
<i>Kiya Movassaghi, Plastic Surgeon, Movassaghi Plastic Surgery - Talk Title TBD</i>		
<i>Leah Wilson, Assistant Professor for the Department of Medicine, Division of Endocrinology, School of Medicine, OHSU – Talk Title TBD</i>		
1:30-2:45pm	Afternoon Session B	Seminar Room 156-158
<i>Morgan Giers, "A Novel Method to Cryopreserve the Intact Intervertebral Disc with No Reduction in Cell Viability"</i>		
<i>Lei Wang, Talk Title TBD</i>		
<i>Nicholas Pancheri, "Rupture of the ACL impairs limb function increases pain sensitivity and induces degenerative structural changes in a translationally relevant preclinical model of PTOA"</i>		

	Conor Harris, "Controlling size and circularity of hydrogel beads for cell immobilization with a coaxial air device and vibrational frequency"	
	H. Michael Shepard, "Introduction to the New Kids in Town: Enosi Therapeutics and H. Michael Shepard, PhD"	
2:45-3:30pm	BREAK and Innovation Center Open House	Papé Family Innovation Center
	<i>During the break, the Papé Family Innovation Center will be open for self-guided tours. Staff will be available to answer questions. Located on the 2nd floor.</i>	
3:30-5:00pm	Keynote, Awards, and Closing Session	Beetham Seminar Room / Live-streamed in Seminar Room 156-158
	<i>Session Chair: Bob Guldborg, Vice President and Robert and Leona DeArmond Executive Director, Knight Campus, UO</i>	
	<i>Keynote Speaker Jason Burdick, "Advances in Biofabrication Methods to Process Biomedical Hydrogels"</i>	
	<i>Awards Announcement and Closing Remarks: Gabriella Lindberg and Paul Dalton</i>	
5:00-7:00pm	RECEPTION and NETWORKING SOCIAL	Knight Campus Terrace (2nd Floor)
	<i>Join us on the 2nd Floor Terrace for food, drinks, and networking!</i>	