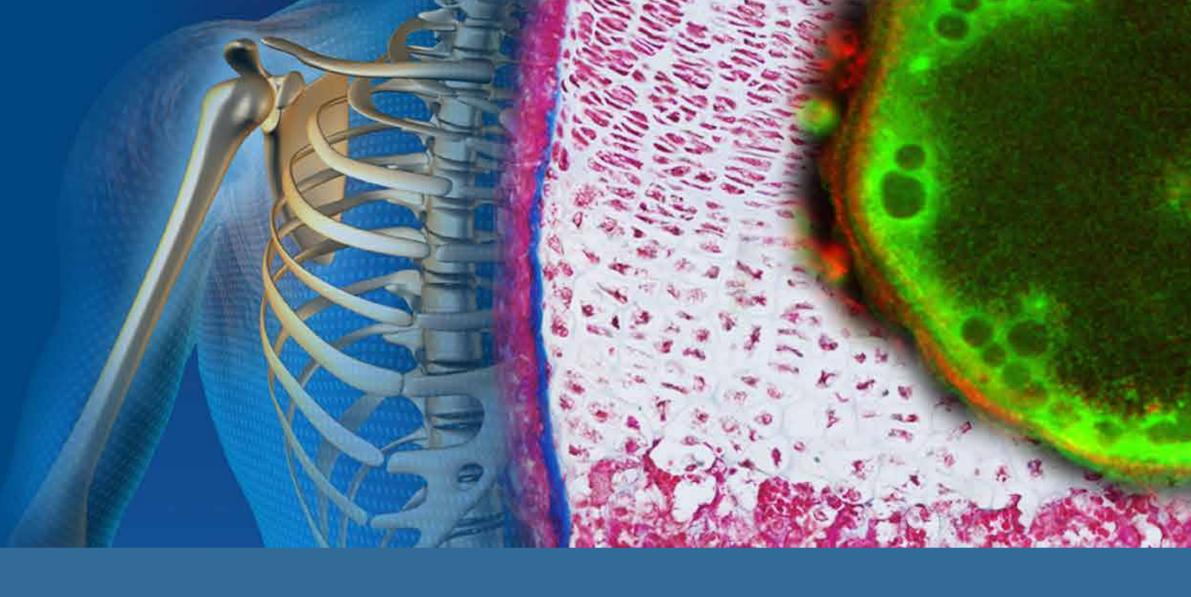
## Center for MusculoSkeletal RESEARCH



## 8th Annual CMSR Symposium

Wednesday, October 24, 2018 · Adolph Auditorium & Saunders Research Building Atrium

8:30 a.m.	Welcome & Introduction	Hani Awad, Ph.D. Paul Rubery, M.D.
8:40 a.m.	Sustained Delivery of Antimicrobials from 3D-Printed CaP Scaffolds in a Single-Stage Revision of Osteomyelitis with Hardware Exchange Abrogates S. Aureus Infections and Promotes Bone Formation in Mice	Ryan Trombetta (Awad Lab)
8:55 a.m.	S100a4-Lineage Cells Lose S100a4 Expression to Become α-SMA+ Myofibroblasts During Scar-Mediated Tendon Healing	Jessica Ackerman (Loiselle Lab)
9:10 a.m.	Targeted Nanoparticle Delivery of Maraviroc to Normalize the Leukemic Bone Marrow Microenvironment	Marian Ackun-Farmmer (Benoit Lab)
9:25 a.m.	Microbiome Analysis for Assessment of Treatment Response and Salvage Prognosis in Infected Diabetic Foot Ulcers	James Brodell, Jr. (Schwarz Lab)
	8:40 a.m. 8:55 a.m. 9:10 a.m.	<ul> <li>8:40 a.m. Sustained Delivery of Antimicrobials from 3D-Printed CaP Scaffolds in a Single-Stage Revision of Osteomyelitis with Hardware Exchange Abrogates S. Aureus Infections and Promotes Bone Formation in Mice</li> <li>8:55 a.m. S100a4-Lineage Cells Lose S100a4 Expression to Become α-SMA+ Myofibroblasts During Scar-Mediated Tendon Healing</li> <li>9:10 a.m. Targeted Nanoparticle Delivery of Maraviroc to Normalize the Leukemic Bone Marrow Microenvironment</li> <li>9:25 a.m. Microbiome Analysis for Assessment of Treatment Response and Salvage</li> </ul>

	10:00 a.r	n. Poster Session in the Saunders Research Building (SR)	B) Atrium
Post-Doctoral Rosier Award Presentations Adolph Auditorium	1:00 p.m.	The Effects of Targeted deletion of PTH1R via SMA Cre-ERT2 in Cranial Bone Defect Repair	Yuankun Zhai, Ph.D. (Zhang Lab)
	1:15 p.m.	Engineered Salivary Gland Tissue Chips	Yuanhui Song, Ph.D. (Benoit Lab)
Plenary Lectures Adolph Auditorium	1:30 p.m.	Chondrocyte Mechanotransduction: Target Piezo1 for Knee Joint Inflammation and OA	Whasil Lee, Ph.D. Biomedical Engineering
	2:00 p.m.	Nanofiber-Enabled Engineering of Biomimetic Periosteum for Bone Repair and Reconstruction	Xinping Zhang, B.Med., Ph.D. Orthopaedics
	2:30 p.m.	TRAF3, a Multifunctional Protein Regulating Bone Turnover and More	Brendan Boyce, M.B.Ch.B.  Pathology
	3:15 p.m.	Artificial Intelligence, Ultrasound and Infections	Constantinos Ketonis, M.D., Ph.D. Orthopaedics
	3:45 p.m.	A Multiscale Mechanical Model of Articular	Mark Buckley, Ph.D.



Mark Buckley, Ph.D. Biomedical Engineering



Michael Zuscik, Ph.D. UC Denver Orthopaedics



Cartilage based on New Insights into the

Compressibility of Isolated Chondrocytes

the Musculoskeletal System

The Gut Microbiome: An Endocrine Regulator of

4:15 p.m.