

# CENTER for MUSCULOSKELETAL RESEARCH



## 10<sup>th</sup> Annual CMSR Symposium

Wednesday, November 18, 2020

Registration Link [https://urmc.zoom.us/webinar/register/WN\\_RqIsqKEOTp-13ZdIFvCtkg](https://urmc.zoom.us/webinar/register/WN_RqIsqKEOTp-13ZdIFvCtkg)

### Program

8:00 AM	ePosters Virtual Viewing & Networking	
10:00 AM	Webinar Opening Remarks	Awad, Schwarz, Rubery
10:15 AM	The CMSR: Where We Have Been, Where We Are Going	J Edward Puzas, PhD

### Trainees Presentations

Pre-Doc Rosier Awards Finalists	10:45 AM	Investigating Murine Joint-Draining Lymphatics: Lineage Tracing and Single Cell RNA Sequencing Reveal Evidence that Popliteal Lymphatic Muscle Cells and their Progenitors Represent Distinct Cell Types Divergent from Skeletal and Vascular Muscle Cells	Mark Kenney
	10:55 AM	The periostin niche as a target for modulating myofibroblast differentiation to promote regenerative tendon healing	Jessica Ackerman
	11:05 AM	Multiphoton microscopy with clearing for three dimensional histology of mouse digital flexor tendon	Melissa MacLiesh
	11:15 AM	Semi-Randomized Zwitterionic Peptides Grant Anti-Fouling Behavior to Nanoparticles	Clyde Overby
	11:25 AM	NAD(P)H Autofluorescence Lifetime Imaging Enables Single Cell Analyses of Osteoblast Cellular Metabolism	Kevin Schilling
	11:35 AM	Age-associated callus senescent cells produce TGF beta1 that inhibits bone fracture healing in aged mice	Jiatong Liu
Post-Doc Rosier Awards Finalists	11:45 AM	IL-27 suppresses Staphylococcal abscess formation in Staphylococcus aureus implant-associated osteomyelitis	Yugo Morita, MD, PhD
	11:55 AM	Targeting synovial lymphatic function as a novel therapeutic intervention for osteoarthritis	Xi Lin, PhD
	12:05 PM	Targeted radiation evokes catecholamine production triggering rapid inflammatory responses	Yuko Kawano, MD, PhD

### New Faculty Spotlight

1:00 PM **Chike Cao, PhD**  
Voltage-Gated Calcium Channel CaV1.2 Regulates Heterotopic Ossification in Tendon



1:30 PM **Chia-Lung Wu, PhD**  
Application of Next-Generation Sequencing in Musculoskeletal Research: Optimization of Human iPSC Chondrogenesis with Single Cell Transcriptomics



### Rosier Awards and Closing Remarks

2:00 PM **Randy Rosier, MD, PhD**



eSocial 2:15 - 3:00 PM

MEDICINE of THE HIGHEST ORDER

