

CENTER for MUSCULOSKELETAL RESEARCH

12th Annual CMSR Symposium
Wednesday, October 19, 2022



Zoom Link

<https://urmc.zoom.us/j/94711958901?pwd=M2NoQ1Nyc3FvNWl5MVMxSDFiZ3RhUT09>

Clinical Hour Presentations

- 7:00 am *Welcome & Introduction*
- 7:05 am *Association of Total Knee Replacement Removal from the Inpatient-Only List with Outcomes in Medicare Patients*
- 7:20 am *Ultrasound Shear Wave Metric for Assessing Flexor Tendon Healing: A Preliminary Cadaver Study*
- 7:30 am *Trends in total hip, knee, and shoulder arthroplasty procedures being performed in Ambulatory Surgery Centers in New York State*
- 7:40 am *Intraoperative blood loss with use of High or Low Dose Tranexamic Acid in metastatic spine tumor surgery, a matched case-control study*
- 7:50 am *Do Patient Reported Outcomes Collected in Clinic Predict the Need for Follow-up Visits After Surgery?*

Class of '62 Auditorium

- Paul Rubery, MD**
- Derek Schloemann, MD**
Caroline Thirukumaran, PhD
- Gilbert Smolyak**
Constantinos Ketonis, MD, PhD
- Thomas Sajda, MD**
Benjamin Ricciardi, MD
- Mark Lawlor, MD**
Addisu Mesfin, MD
- Jefferson Hunter**
Judy Baumhauer, MD, MPH

Rosier Award Trainee Presentations

- 9:00 am *Welcome & Introduction*
- 9:05 am *The Importance of Musculoskeletal Research from the Patient Perspective*
- 9:15 am *Human NGFR⁺/VCAM-1⁺/MCAM⁺ Bone Marrow-derived Stromal Cells (NVML) Provide Enhanced Support for Normal Hematopoiesis and Are Disrupted in Myelodysplastic Syndrome*
- 9:30 am *Single cell RNA sequencing reveals age-dependent decline of fibroblast population in murine knee synovium*
- 9:45 am *Efficacy of Bisphosphonate-Conjugated Sitafloxacin in a Murine I-Stage Revision Model of S. aureus Osteomyelitis*
- 10:00 am *Elucidating Androgen Effects on Focal Erosions in TNF-Induced Inflammatory Arthritis*
- 10:15 am *CXCR2⁺TGFbeta1⁺ callus senescent cells represent a specific detrimental subset that inhibits fracture healing and growth of mesenchymal progenitors*
- 10:30 am *Coffee Break*
- 10:45 am *Detecting osteoporosis and predicting distal radius fracture strength using Raman spectroscopy in human fingers - A cadaveric study*
- 11:00 am *Insulin-Like Growth Factor 1 in the Bone Marrow Microenvironment Inhibits Mesenchymal Stromal Cell Efferocytosis*
- 11:15 am *Effects of Elevated Lactate in the Bone Marrow Microenvironment during Acute Myeloid Leukemia*
- 11:30 am *Detecting alterations in tendon microstructure in the presence of diabetes using high-frequency quantitative ultrasound*
- 11:45 am *Three-Minute Teasers (3MT) – Finalists for Best Poster Presentations*

Class of '62 Auditorium

- Hani Awad, PhD**
Paul Rubery, MD
- Karen Tucker**
(UR Alum 1973)
- Yuko Kawano, MD, PhD**
Calvi Lab
- Xi Lin, PhD**
Xing Lab
- Youliang Ren, PhD**
Xie/Schwarz Lab
- Kiana Chen**
Rahimi Lab
- Jiatong Liu**
Xing Lab
- Christine Massie**
Berger/Awad Lab
- Noah Salama**
Calvi Lab
- Celia Soto**
Frisch Lab
- Sarah Wayson**
Hocking/Dalecki Lab

Post-Doctoral Fellows

Pre-Doctoral Trainees

12:15 – 2:15 pm **Lunch & Poster Session**
2:15 pm **Annual CMSR Photo**

Sarah Flaum Atrium
Sarah Flaum Atrium

Plenary Session

CMSR Faculty Spotlight

- 2:30 pm **Shu-Chi (Allison) Yeh, PhD**
Live-animal multiphoton imaging of the blood stem cell niche
- 3:00 pm **Gowrishankar Muthukrishnan, PhD**
IL-27 and Staphylococcus aureus bone infections
- 3:30 pm **Danielle Benoit, PhD**
Therapeutic biomaterials for musculoskeletal regeneration

Keynote Presentation

- 4:00 pm **Tamara Alliston, PhD**
Osteocytic Mechanisms of Bone Fragility and Joint Disease



5:30 pm **Dinner and Rosier Awards Presentation**

Evarts Lounge- Helen Wood Hall

MEDICINE of THE HIGHEST ORDER

