

13th Annual CENTER for MUSCULOSKELETAL RESEARCH Symposium

Thursday, October 26, 2023



Zoom Link

<https://urmc.zoom.us/j/97236329590>

Clinical Hour Presentations

School of Nursing (SON) Auditorium, 1W-304, Helen Wood Hall

- 7:00 am *Welcome & Introduction*
- 7:02 am *Intramedullary Nail Versus Plate Fixation for Diaphyseal Humerus Fractures: A Retrospective Comparative Analysis*
- 7:10 am *Determining the Role of Posterior Pelvic Ring Fixation Density in Post-operative Pelvic Ring Displacement*
- 7:18 am *Outcomes Following Cubital Tunnel Release With and Without Ulnar Nerve Transposition*
- 7:26 am *New York's opioid restriction law and disparities in opioid fills after total hip/knee arthroplasty*
- 7:34 am *Phenotyping 1-year Dissatisfaction and Poor Outcomes in Primary TKA Patients with PAM, PROMIS, and OSPRO-YF: Baseline Data Results from 267 Consecutive TKA Patients*
- 7:42 am *Concordance of patient-perceived sports bra size with objective measurement*
- 7:50 am *The UR Medicine's Motion Analysis Laboratories - What can be expected?*

Paul Rubery, MD

Urvi Patel, MD
John Ketz, MD
James Brodell, MD
Sandeep Soin, MD
Dominique Rinfret, MD Student
Constantinos Ketonis, MD, PhD
Derek Schloemann, MD
Caroline Thirukumaran, PhD
Mina Botros, MD
Thomas Myers, MD
Elaine Xu, MD Student
Katherine Rizzone, MD
Ram Haddas, PhD

Rosier Award Trainee Presentations

School of Nursing (SON) Auditorium, 1W-304, Helen Wood Hall

- 9:00 am *Welcome & Introduction*
- 9:05 am *Why I chose to become the Chairman of the URM MSKI Council*
- 9:15 am *We are the CMSR*
- 9:15 am *Mitochondrial genetics influences osteogenic potential of mesenchymal stem cells and bone phenotype in a sex-dependent manner*
- 9:30 am *TriNetX Analytics Network analyses of the USA population reveals bidirectional associations between Achilles tendinopathy and hypertension mediated by voltage-gated Ca²⁺ channel CaV1.2*
- 9:45 am *CCL20/CCR6 limits the disease severity in Staphylococcus aureus osteomyelitis by increasing Th17 and macrophage recruitment at the site of inflammation*
- 10:00 am *Real-Time Fluorescent Microscopy Assessment of PAD4-Mediated NETosis and NET Degradation by S. aureus Nuclease During Nidus Formation on Metal Implants*
- 10:15 am *Break*
- 10:30 am *Tendon-Targeted delivery of drug-loaded nanoparticles to modulate healing*
- 10:45 am *Neurological Markers of Pain and Functional Disability during Romberg's Test in Patients with Lower Back Pain*
- 11:00 am *Localized Knee Irradiation Creates Persistent DNA Damage in Chondrocytes and Promotes Joint Hyperalgesia*
- 11:15 am *Ablation of Tumor Derived IGFBP-3 Attenuates Cancer-Associated Skeletal Muscle Wasting via Downregulation of the Ubiquitin Proteasome Pathway*
- 11:30 am *The Role of PRDM16 in Craniofacial Development*
- 11:45 am *3D printed PCL scaffolds containing amorphous calcium phosphate nanoparticles promote long bone regeneration through osteoimmunomodulation*
- 12:00 pm *Three-Minute Teasers (3MT) – Finalists for Best Poster Presentations*

Paul Rubery, MD
Hani Awad, PhD
Sam Guerrieri (UR Alum '87)

Jennifer Jonason, PhD

Sarah Catheline, PhD
Eliseev Lab
Haiyin Li, PhD
Cao Lab
Himanshu Meghwani, PhD
Muthukrishnan Lab
Youliang Ren, PhD
Xie/Schwarz Labs

Post-Doctoral Fellows

Pre-Doctoral Trainees

12:45 pm Lunch & Poster Session Saunders Research Building (SRB) Atrium

2:15 pm Annual CMSR Photo

Saunders Research Building (SRB) Atrium

Plenary Session

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CMSR Faculty Spotlight

- 2:30 pm **Anne Nichols, PhD**
Defining the role of the epitenon in tendon health and healing
- 3:00 pm **Ram Haddas, PhD**
Technology & tools for assessing patient's disability and function
- 3:30 pm **Sandeep Mannava, MD, PhD**
Clinical Orthopaedics Update: What is new in training, clinical practice, and patient outcomes



Keynote Presentation

- 4:00 pm **Hicham Drissi, PhD**
Advances in cell and molecular approaches for skeletal tissue preservation and repair

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

Evarts Lounge, 1W-133, Helen Wood Hall