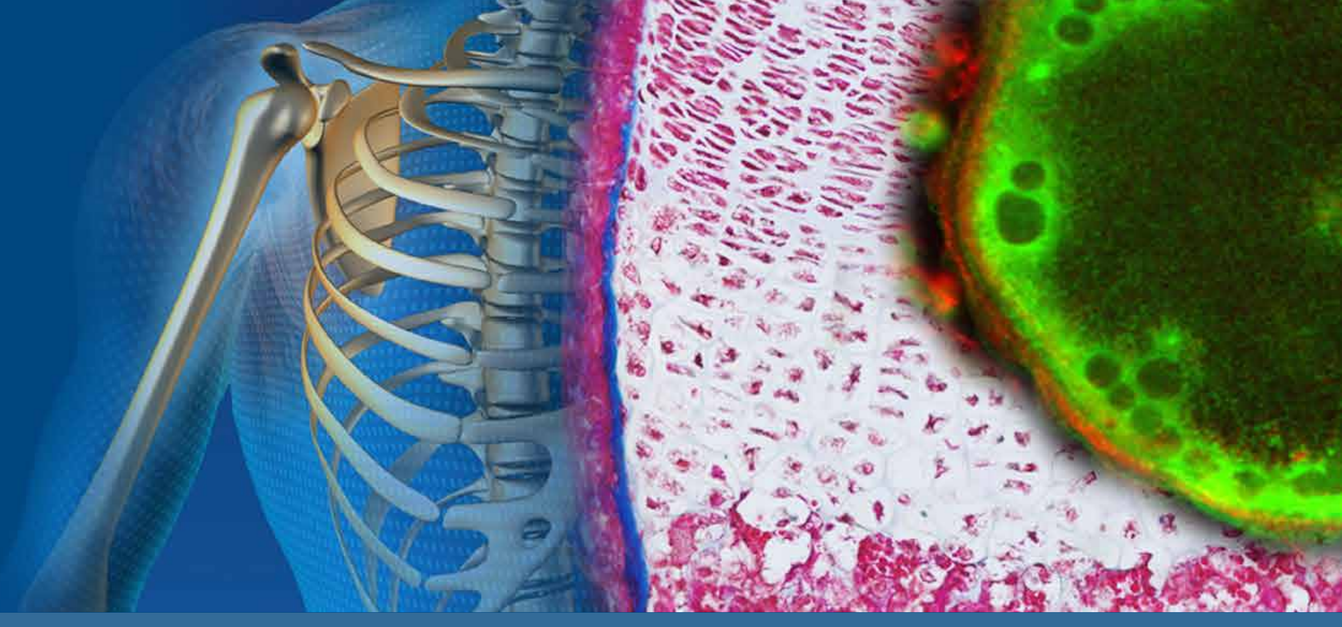
CENTER *for* MUSCULOSKELETAL RESEARCH



Fifth Annual CMSR Symposium

September 23, 2015 • Flaum Atrium and Class of '62 Auditorium

Rosier Award Finalist Presentations
Class of '62 Auditorium

8:55 a.m.	Welcome & Introduction	**Michael Zuscik, PhD**
9:00 a.m.	The Role of Neutrophils in B Cell Dysregulation in Systemic Lupus Erythematosus	**Anna Bird** (Anolik Lab)
9:15 a.m.	Radiation Injury Links Mineral Homeostasis to Hematopoietic Stem Cell Niche Activation	**Corey Hoffman** (Calvi Lab)
9:30 a.m.	Free Fatty Acid-Induced TLR4 Activation in the Synovium is a Potential Mechanism for the Increased Susceptibility to OA in the Obese/T2D Population	**Eric Schott** (Mooney/Zuscik Lab)
9:45 a.m.	3D-printing of Biphasic Calcium Phosphate Bone Graft Substitutes with Incorporated Demineralized Bone Matrix	**Ryan Trombetta** (Awad Lab)
10:00 a.m.	Delivery of β-Catenin Agonists via Targeted Poly(styrene-alt-maleic anhydride)-b-poly(styrene) (PSMA-b-PS) Micelles to Enhance Fracture Healing	**Yuchen Wang** (Benoit lab)
10:15 a.m.	Antibodies Secreted by Circulating Plasmablasts: A New Biomarker for Early Diagnosis of Acute Orthopaedic Implant-associated Infections by Staphylococcus aureus	**Sandeep Soin, MD** (Schwarz/Daiss Lab)
10:30 a.m.	B Cells Contribute to Bone Erosion in Rheumatoid Arthritis by Directly Inhibiting Osteoblast Differentiation	**Wen Sun, PhD** (Xing Lab)
10:45 a.m.	Pharmacological Approaches to Preventing Muscle Degeneration after Motor Nerve Injury	**Li Yue, PhD** (Elfar lab)

11:00 a.m. Poster Session in the Flaum Atrium

Plenary Lectures
Class of '62 Auditorium

1:30 p.m.	Embryonically Inspired Mechanoregulation of Stem Cell Tenogenesis	**Catherine Kuo, PhD**
2:00 p.m.	Energy Metabolism in Mesenchymal Stem Cells and Bone Homeostasis	**Roman Eliseev, PhD**
2:30 p.m.	Development of a Directed Network to Define Sequential Interactions During Osteoblastogenesis: How to Make an Osteoblast in 4000 Easy Steps	**Cheryl Ackert-Bicknell, PhD**

Keynote Presentation
Class of '62 Auditorium

3:15 p.m.

Bone Marrow Stromal Cells (a.k.a. "Mesenchymal Stem Cells") in Health and Disease

Pamela Gehron Robey, PhD

Dr. Robey is an internationally recognized leader in the stem cell biology field with specific focus on the biology of stem cells in bone, dental and connective tissue and their use in tissue regeneration applications. Dr. Robey is the Chief of the Craniofacial and Skeletal Diseases Branch, and Chief of the Skeletal Biology Section at NIH/NIDCR Division of Intramural Research. Dr. Robey is also the Co-Coordinator of the NIH Bone Marrow Stromal Cell Transplantation Center, and Acting Scientific Director of the NIH Stem Cell Unit.

MEDICINE *of* THE HIGHEST ORDER

UNIVERSITY *of* ROCHESTER MEDICAL CENTER