8:55 a.m. Welcome & Introduction
Michael Zuscik, PhD

9:00 a.m. A High Fat Diet Reduces Bone Strength by Altering Bone
Michael-John Beltejar (Ackert-Bicknell Lab)

9:15 a.m. Sustained IKKβ Activation in Postnatal Chondrocytes Accelerates the Onset of Age-associated Murine Osteoarthritis
Sarah Catheline (Jonason Lab)

9:30 a.m. Role of Regulatory Volume Decrease in Protective Mechanical Adaptation of Articular Chondrocytes
Alexander Kotelsky (Buckley Lab)

9:45 a.m. Cartilage-derived Matrices in Conjunction with PTH Treatment Aid in Cartilage Repair and Integration in a Rabbit Cartilage Defect Model
Sara Nowacki (Awad Lab)

10:00 a.m. Cyclophilin D Knock-out Mice Show Enhanced Resistance to Osteoporosis and to Metabolic Changes Observed in Aging Bone
Laura Shum (Eliseev Lab)

10:15 a.m. Elucidating the Mechanism of Anti-IsdB Antibody-Mediated Sepsis and Death from S. Aureus Implant-Associated Osteomyelitis
Masahiro Ishikawa, MD, PhD (Schwarz and Daiss Labs)

10:30 a.m. Novel Physical Therapy Protocol Results in Increased Compressive Strain and Improved Outcomes in Insertional Achilles Tendinopathy
Meghan Kelly, MD, PhD (Buckley Lab)

10:45 a.m. SMAD4 is Required for Proper Function of Skeletal Muscle Stem Cells During Regeneration in Aged and Young Mice
Nicole Paris, PhD (Chakkalakal Lab)

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

Plenary Lectures
Class of ’62 Auditorium
1:30 p.m. Sex Differences in Inflammatory Arthritis
Homaira Rahimi, MD, MTR

2:00 p.m. Leukemic Reprogramming of the Bone Marrow Microenvironment through the Chemokine CCL3
Benjamin Frisch, PhD

2:30 p.m. Defining the Pro-fibrotic, Scar Forming Cell Population During Tendon Healing
Alayna Loiselle, PhD

3:15 p.m. Regulation of Tendon Differentiation and Maturation and Musculoskeletal Integration
Ronen Schweitzer, PhD

Dr. Ronen Schweitzer is an internationally recognized leader in the tendon biology field with a research focus on the differentiation and patterning of tendons during embryonic vertebrate development. Dr. Schweitzer, an investigator at Portland Shriners Research Center, is Associate Professor of Cell and Developmental Biology at Oregon Health and Science University.