Poster Presentations

Track 1- Cell Tissue Biomechanics

**Bone**
1. Leek, Connor
   Fibroblast Growth Factor 9 and the Size of the Deltoid Tuberosity
2. Nguyen, John
   Novel Synthetic Peptide, CK2.3, Increased Lumbar Spine Bone Mineral Density, Enhanced Femoral Shaft Stiffness, and Inhibited Osteoclastogenesis In Vivo
3. Parajuli, Ashutosh
   The Microstructure of Osteocytic Lacunar-Canalicul System varies with Age and Bone Mineral Density on Osteoporotic and Osteoarthritic Patients
4. Weidner, Hilary
   Decreased BMP2 mineralization in primary human osteoblasts isolated from osteoporotic patients

**Cartilage & OA**
5. David, Michael
   Zoledronic Acid Deceases Chondrocyte Viability, Proliferation, Motility, and Cytoskeletal Remodeling In Vitro
6. Graham, Brian
   How activity frequency governs cartilage function and its implications for joint health
7. Trompeter, Nick
   The tole of TRPV4 in OA
8. Griffin, Mallory
   Extracellular Matrix Surface Stiffness Regulates TRPV4 Channel Function in Chondrocytes

**Spine & Others**
9. Corrigan, Patrick
   Immediate effects of photobiomodulation therapy on Achilles tendon structural and viscoelastic properties

Track 2- Clinical Biomechanics

**Design & Innovation**
19. Koller, Corey
   Personalized Passive-Dynamic Ankle-Foot Orthoses Bending Stiffness Improves Peak Plantar Flexion Moment for Individuals Post-Stroke

**Gait & OA**
21. Christiansen, Meredith
   Primary care physicians experiences with prescribing exercise for knee osteoarthritis
23. Ito, Naoaki
   Sex and mechanism of injury (MOI) influence knee mechanics after anterior cruciate ligament reconstruction (ACLR)
25. Kolbeinsdottir, Rosa
   Proximal shank kinematics in prosthetic gait
27. Reimann, Hendrik
   Balance responses to visual perturbations during locomotion
29. Williams, Jack
   Minimum-Interlimb Difference of Tri-Compartment Knee Cartilage T2 Values in Healthy Individuals

**Neuromuscular Modeling & Assessments**
31. Pigman, Jamie
   The Effects of Fall-Recovery Training on Single- and Multiple-Stepping Thresholds in Individuals with Chronic Stroke