



Mizzou's TLRO Team Shines at Premier Orthopaedic Conference



The Thompson Lab Team stood out at the Orthopaedic Research Society's 2019 Annual Meeting. Faculty and students presented 53 peer-reviewed scientific abstracts at this prestigious international meeting, which is the world's largest and most highly respected conference for research in orthopaedics.

Current Projects

- Mizzou Sports Science Initiative
- Fracture Risk in Adolescence
- DoD Meniscal Allograft Comparison Study
- Mizzou Knee Arthrometer Testing System
- Bone Quality after Bariatric Surgery
- Partial Thickness Rotator Cuff Tear Repair
- Biomarkers for IVD Disease
- Updating Skeletal Maturity Methods
- Canine Total Hip Arthroplasty
- BioJoint® Flex Knee Rehab System
- Motion Analysis for Risk of Injury
- Sex Differences in ACL Graft Healing

Last Quarter's "Top 5"

1. TLRO undergraduate student, Muhammad Salim, wins Bioengineering Award
2. TLRO Intern, Evan Bradley, receives scholarship to attend Washington University
3. Dr. Duren featured in MU's Office of Undergraduate Research Newsletter
4. Members of Camdenton High School's Science Research Program visit the TLRO
5. Mel Boeyer & Dr. Duren presented work at Special Symposium honoring Owen Lovejoy

Recent Pubs

1. Stoker AM, et al. Metabolic responses of osteochondral allografts to re-warming. *J Orthop Res* 2019
2. Ahner CA, et al. Protein biomarkers in serum and urine for hip dysplasia in a canine model. *J Orthop Res* 2019
3. Thomas DM, et al. Biomechanical properties of bioabsorbable fixation for osteochondral shell allografts. *J Knee Surg* 2019
4. Smith PA, et al. Role of the ALL and ITB for pivot shift and comparison of ALR versus modified Lemaire reconstructions. *Arthroscopy* 2019
5. Kuroki K, et al. Histologic assessment of ligament vascularity and synovitis in dogs with CCLD. *Am J Vet Res* 2019
6. Tarafder S, et al. Effect of dose and release rate of CTGF and TGFβ3 on avascular meniscal healing. *J Orthop Res* 2019
7. Keeney JA, et al. Incisional negative pressure wound therapy devices following hip and knee arthroplasty. *J Arthroplasty* 2019
8. Albuquerque JB, et al. Onlay reconstruction of the PCL: Comparison of unicortical and bicortical tibial fixation. *J Knee Surg* 2019
9. Oladeji LO, et al. Cooled radiofrequency ablation for treatment of OA-related knee pain. *J Knee Surg* 2019
10. Cook JL and Stannard JP. Current use of biologics in clinical orthopaedics. *GCMS J* 2018
11. Boeyer ME, et al. Early maturity as the new normal: A century-long study of bone age. *Clin Orthop Rel Res* 2018
12. Tarafder S, et al. Engineered healing of avascular meniscus tears by stem cell recruitment. *Nature Sci Reports* 2018