



Thompson Laboratory for Regenerative Orthopaedics

"Discovering Better"

E-news – Summer Quarter 12:3;2018

<http://thompsonlab.missouri.edu>

Current Projects

- Mizzou BioJoint® Outcomes & Cost-Efficacy
- Mizzou Knee Arthrometer Testing System
- BioJoint® ACL Reconstruction
- BMA vs BMC for OCA Bone Integration
- Mizzou Total Elbow Arthroplasty System
- Patient-specific BioJoint® Instrumentation
- Canine Total Hip Arthroplasty
- BioJoint® Flex Knee Rehab System
- Motion Analysis for Risk of Injury
- Novel Scope Irrigation Solution
- Biomarkers for IVD Disease
- Avascular Meniscal Healing

Last quarter's "top 5"

1. Dr. Stoker receives Mizzou Undergraduate Mentor of the Year honor!
2. Dr. Cook selected as an inaugural University of Missouri Presidential Engagement Fellow!
3. TLRO investigators receive two Dept of Defense Grants totaling more than \$3M!
4. STRIVE Program participants who worked in the Thompson Lab graduate!
5. Melanie Boeyer, Jesse Kruse and Eli Pratte receive Annual TLRO Awards!

Dr. Aaron Stoker is Mizzou's Mentor of the Year

Dr. Aaron Stoker was awarded the 2018 University of Missouri Outstanding Undergraduate Mentor of the Year award. TLRO students nominated Dr. Stoker for this prestigious award because of his tireless dedication to engaging and mentoring them, his passion for patient-based research, and his genuine investment in them and their futures. Based on their nomination packet and letters, Dr. Stoker was selected to receive this well-deserved honor!



Recent Pubs

1. Talarider S, et al. Engineered healing of avascular meniscus tears by stem cell recruitment. Nature Sci Reports 2018
2. Smith PA, et al. Intra-articular biocompatibility of multi-stranded long-chain polyethylene suture tape in a canine model. J Knee Surg 2018
3. Wessel AR, et al. Assessment of reamer irrigator aspirator system filtrate for its osteoinductive potential. Injury 2018
4. Worley JR, et al. Incidence of concurrent peroneal nerve injury in multiligament knee injuries. J Knee Surg 2018
5. Stoker AM, et al. Chondrocyte viability at time of transplantation for OCAs preserved by MOPS vs standard protocol. J Knee Surg 2018
6. Nuelle CN, et al. In vivo toxicity of local anesthetics and corticosteroids on tenocyte viability and metabolism. Iowa Orthop J 2018
7. James CR, et al. The use of fluoroscopy during direct anterior hip arthroplasty: powerful or misleading? J Arthroplasty 2018
8. Roller BL, et al. Use of a novel bone cement for augmenting anchor and tendon fixation. Am J Orthop 2018
9. Baumann CA, et al. Comparison of techniques for pre-implantation treatment of OCA bone. J Knee Surg 2018
10. Cook AE, et al. Metabolic responses of meniscus to IL-1b. J Knee Surg 2018
11. Stoker AM, et al. Validation of MOPS for maintenance of OCA quality during prolonged storage. Am J Sports Med 2017