



Thompson Laboratory for Regenerative Orthopaedics

“Discovering Better”

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<http://thompsonlab.missouri.edu>

Current Projects

- Mizzou BioJoint® Outcomes & Cost-Efficacy
- Canine Total Hip Arthroplasty
- Mizzou Knee Arthrometer Testing System
- BioJoint® Flex Knee Rehab System
- BioJoint® ACL Reconstruction
- Motion Analysis for Risk of Injury
- BMA vs BMC for OCA Bone Integration
- Biomarkers for IVD Disease
- Mizzou Total Elbow Arthroplasty System
- Sonographic Screening for Injury Risk
- Partial Thickness Rotator Cuff Tear Repair
- Sex Differences in ACL Graft Healing

Last quarter’s “top 5”

1. Thompson Lab technology, MOPSSM, receives National Sports Medicine award!
2. Dr. Duren’s landmark study provides new normal for bone maturity!
3. TLRO Summer Intern, Evan Bradley, wins top award for research excellence!
4. Mizzou BioJoint® Center patients share their amazing MOPSSM-graft success stories!
5. TLRO Team submits 53 research abstracts for 2019 ORS Annual Meeting!

MOPS Receives Sports Med Technology Award

The TLRO received the 2018 Sports Medicine Technology Award for The Missouri Osteochondral Preservation System (MOPSSM) presented annually at the American Orthopaedic Society for Sports Medicine Annual Meeting by *Orthopedics This Week* and RRY Publications, to recognize exemplary and innovative products to treat sports injuries and the engineering teams and inventors who create them. MOPSSM was selected for this

award for its ability to more than double the storage life of allografts used for joint repairs.



In accepting this prestigious honor, Dr. Jimi Cook said, "We are honored that MOPSSM has been recognized with this special award. Early results for this unique technology have been very promising, and we are excited to continue to explore ways that MOPSSM can improve outcomes for those in need of cartilage restoration while honoring donors and their families."

Recent Pubs

1. Boeyer ME, et al. Early maturity as the new normal: A century-long study of bone age. Clin Orthop Rel Res 2018
2. Tarafder S, et al. Engineered healing of avascular meniscus tears by stem cell recruitment. Nature Sci Reports 2018
3. Huckins GL, et al. Osteochondral autograft transfer for treatment of OCD in two snow leopards. J Zoo Wildlife Med 2018
4. Brimmo OA, et al. Subchondroplasty for treatment of post-traumatic bone marrow lesions in a preclinical canine model. J Orthop Res 2018
5. Cook AE, et al. Metabolic responses of meniscal explants to injury and inflammation ex vivo. J Orthop Res 2018
6. Smith PA, et al. Intra-articular biocompatibility of suture tape in a canine ACL model. J Knee Surg 2018
7. Stoker AM, et al. Chondrocyte viability at time of transplantation for OCAs preserved by MOPS vs standard protocol. J Knee Surg 2018
8. Wessel AR, et al. Assessment of RIA filtrate for its osteoinductive potential in a validated animal model. Injury 2018
9. Gersoff WK, et al. Evaluation of a novel degradable synthetic biomaterial patch for augmentation of tendon healing. J Knee Surg 2018
10. Worley JR, et al. Incidence of peroneal nerve injury in multiligament knee injuries and outcomes after reconstruction. J Knee Surg 2018
11. Baumann CA, et al. Comparison of techniques for pre-implantation treatment of OCA bone. J Knee Surg 2018