



Thompson Laboratory for Regenerative Orthopaedics

“Discovering Better”

E-news – Winter Quarter 12:1;2018

<http://thompsonlab.missouri.edu>

Current Projects

- Mizzou BioJoint® Outcomes
- BioJoint ACL Reconstruction
- BMA vs BMC for OCA Bone Integration
- Biologic Joint Restoration vs TKA
- Mizzou Total Elbow Arthroplasty System
- Mizzou Knee Arthrometer Testing System
- BioJoint Flex Knee Rehab System
- Novel Scope Irrigation Solution
- Early Diagnosis of Hip Dysplasia
- Enhanced BMC for Bone Healing
- Biomarkers for IVD Disease
- Intervertebral Disc Transplants

Last quarter’s “top 5”

1. Dr. Keith Kenter visits the TLRO as a special Visiting Professor
2. TLRO has 32 scientific abstracts accepted for 2018 Orthopaedic Research Society Meeting
3. Dr. Christina De Armond, veterinary clinician-scientist, visits TLRO to learn about BioJoints
4. TLRO and Mizzou BioJoint® recognize Stoney Creek Inn for exceptional service
5. Littlejohn Family Keynote Speaker, Dr. Steve Messier, set for 18th Annual CO Day, April 6th

COL Legend visits the TLRO

Dr. Keith Kenter, Chair of Orthopaedic Surgery at Western Michigan University visited us as a special visiting professor. Dr. Kenter helped Dr. Cook start the Comparative Orthopaedic Lab (COL) at Mizzou almost 20 years ago and played key roles in helping it become what it is today. The reunion with long-time COL members, Drs. Cook, Stoker and Kuroki was a fun & historic event.



Marching without Pain

See how technology developed and validated in the TLRO is helping patients like Monica get their lives back - <https://www.muhealth.org/for-media/press-releases/orthopaedic-surgeons-mu-health-care-offer-biologic-joint-repair>



Recent Pubs

1. Stoker AM, et al. Chondrocyte viability at time of transplantation for OCAs preserved by MOPS vs standard protocol. J Knee Surg 2018
2. Baumann CA, et al. Comparison of techniques for pre-implantation treatment of OCA bone. J Knee Surg 2018
3. Cook AE, et al. Metabolic responses of meniscus to IL-1b. J Knee Surg 2018
4. Stoker AM, et al. Validation of MOPS for maintenance of OCA quality during prolonged storage. Am J Sports Med 2017
5. Kuroki K, et al. Biologic joint repair strategies: The Mizzou BioJoint Story. Tox Pathol 2017
6. Oladeji LO, et al. Effect of autogenous BMC on radiographic integration of femoral condyle OCAs. Am J Sports Med 2017
7. Smith MJ, et al. Rotator cuff healing using demineralized cancellous bone matrix sponge in a preclinical model. J Orthop Res 2017
8. Martino J, et al. Day of week and surgery location effects on stay length and cost for total joint arthroplasty. J Knee Surg 2017
9. Capito NM, et al. Safety and efficacy of hyperosmolar irrigation solution in shoulder arthroscopy. J Shoulder Elbow Surg 2017
10. Monibi FA, et al. Tissue-derived ECM bioscaffolds: Emerging applications in cartilage and meniscus repair. Tiss Eng 2017
11. Cook JL, et al. Meniscal biology in health and disease. Conn Tiss Res 2017