Thompson Laboratory for Regenerative Orthopaedics

"Discovering Better"

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http://thompsonlab.missouri.edu

Current Projects

- •Mizzou BioJoint® Outcomes & Cost-Efficacy
- •BioJoint® ACL Reconstruction
- •BMA vs BMC for OCA Bone Integration
- Mizzou Total Elbow Arthroplasty System
- Mizzou Knee Arthrometer Testing System
- •Patient-specific BioJoint® Instrumentation

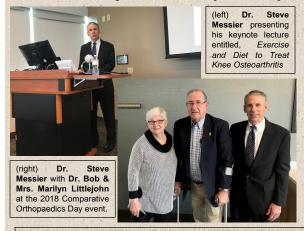
- Motion Analysis for Risk of Injury
- •BioJoint® Flex Knee Rehab System
- Novel Scope Irrigation Solution
- Enhanced BMC for Bone Healing
- Biomarkers for IVD Disease
- Intervertebral Disc Transplants

Last quarter's "top 5"

- 1. TLRO Team awarded \$1.9MM US Dept of Defense grant for Mizzou BioJoint® optimization
- 2. Mel Boeyer awarded NIH F31 training grant under the mentorship of Dr. Dana Duren
- 3. TLRO collaborates with Dr. Ateshian in NYC for \$1.5MM US Dept of Defense grant award
- 4. TLRO Team presents 34 studies at 2018 AAOS and ORS Meetings in New Orleans
- 5. 18th Annual Comparative Orthopaedics Day with Littlejohn Lecturer, Dr. Steve Messier

18th Annual Comparative Orthopaedics Day at the Missouri Orthopaedic Institute

This annual day of learning, collaboration, and interaction was an outstanding success again this year. **Dr. Steve Messier** from Wake Forest University gave a wonderful keynote lecture and the research presentations from Thompson Lab faculty, residents, and students were well received from the international audience. Our most sincere THANKS goes to **The Littlejohn Family** for making this special day a world class event every year!







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. Nuelle CN, et al. In vivo toxicity of local anesthetics and corticosteroids on tenocyte viability and metabolism. Iowa Orthop J 2018
- 3. James CR, et al. The use of fluoroscopy during direct anterior hip arthroplasty: powerful or misleading? J Arthroplasty 2018
- 4. Roller BL, et al. Use of a novel bone cement for augmenting anchor and tendon fixation. Am J Orthop 2018
- 5. Baumann CA, et al. Comparison of techniques for pre-implantation treatment of OCA bone. J Knee Surg 2018
- 6. Cook AE, et al. Metabolic responses of meniscus to IL-1b. J Knee Surg 2018
- 7. Stoker AM, et al. Validation of MOPS for maintenance of OCA quality during prolonged storage. Am J Sports Med 2017
- 8. Kuroki K, et al. Biologic joint repair strategies: The Mizzou BioJoint Story. Tox Pathol 2017
- Kuroki K, et al. Biologic joint repair strategies: The Mizzou BioJoint Story. Tox Pathol 2017
 Oladeji LO, et al. Effect of autogenous BMC on radiographic integration of femoral condyle OCAs. Am J Sports Med 2017
- 10. Smith MJ, et al. Rotator cuff healing using demineralized cancellous bone matrix sponge in a preclinical model. J Orthop Res 2017
- 11. Capito NM, et al. Safety and efficacy of hyperosmolar irrigation solution in shoulder arthroscopy. J Shoulder Elbow Surg 2017