



# Thompson Laboratory for Regenerative Orthopaedics

*“Discovering Better”*

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<http://thompsonlab.missouri.edu>

## Current Projects

- Mizzou BioJoint<sup>SM</sup> Outcomes
- Sensory Function of the ACL
- Effects of Re-warming on OCAs
- Enhanced Subchondroplasty for PTOA
- Biomarkers for IVDD
- Peripheral Nerve Repair & Regeneration
- Biologic Total Hip Restoration
- Intervertebral Disc Transplants
- Superior Capsular Reconstruction
- Novel Quad Tendon Allograft ACL
- Meniscal Tissue Engineering
- Early Diagnosis of Hip Dysplasia

## Last quarter’s “top 5”

1. Thompson Lab for Regenerative Orthopaedics & Mizzou BioJoint<sup>SM</sup> Center officially open
2. The William & Kathryn Allen Professorship was elevated to the Endowed Chair level
3. TLRO had 27 abstracts accepted for the 2017 Orthopaedic Research Society Conference
4. Dr. Cook received the prestigious Markowitz Award from Academy of Surgical Research
5. Mizzou BioJoint<sup>SM</sup> team performed surgery on Snow Leopard at Chicago’s Brookfield Zoo

## Thompson Lab Officially Opens

The Thompson Laboratory for Regenerative Orthopaedics is officially open for business in our new ~12,000 ft<sup>2</sup> world-class facility, also housing The Mizzou BioJoint<sup>SM</sup> Center, in the addition to the Missouri Orthopaedic Institute. Come visit us in our new home!



### Recent Pubs

1. Cook JL, et al. Importance of donor chondrocyte viability for osteochondral grafts. Am J Sports Med 2016
2. Nagelli CV, et al. Does ACL innervation matter for joint function and development of OA? J Knee Surg 2016
3. Crist BD, et al. Analysis of proteins from bone grafts harvested using RIA vs iliac crest bone graft and RIA waste water. Injury 2016
4. Nuelle CW, et al. Biomechanical comparison of 5 PCL reconstruction techniques. J Knee Surg 2016
5. Milles JL, et al. Biomechanical comparison of single-bundle vs double-bundle PCL reconstruction techniques. J Knee Surg 2016
6. Pashuck TD, et al. Hyaluronic acid vs saline intra-articular injections for amelioration of chronic knee OA. J Orthop Res 2016
7. Fortier LA, et al. BioCartilage improves cartilage repair compared with microfracture alone in an equine model. Am J Sports Med 2016
8. Nover AB et al. A puzzle assembly strategy for fabrication of large engineered cartilage tissue constructs. J Biomech 2016
9. Crist BD, et al. Optimising femoral-head osteochondral allograft transplantation in a preclinical model. J Orthop Translation 2016
10. Stannard JT, et al. Development of a whole organ culture model for intervertebral disc disease. J Orthop Translation 2016