

University of Missouri Health Care

# Thompson Laboratory for Regenerative Orthopaedics

"Discovering Better"

E-news - Fall Quarter 10:4;2016

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

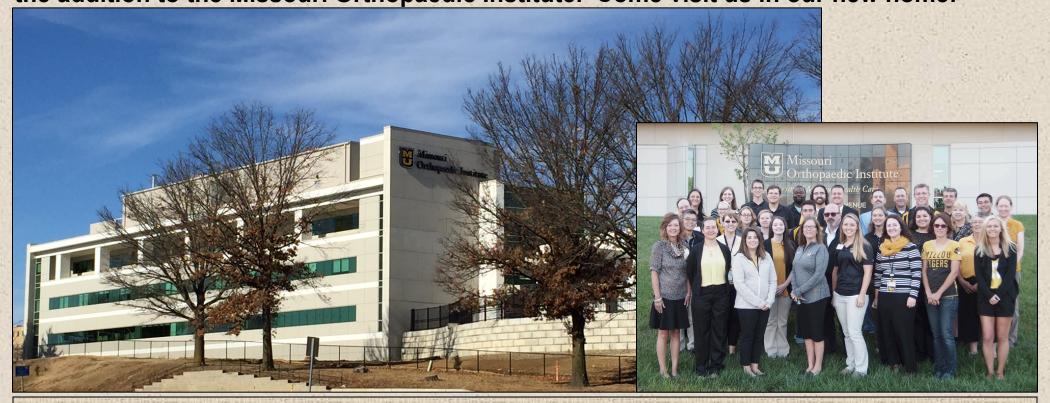
- Biologic Total Hip Restoration
- Intervertebral Disc Transplants
- Superior Capsular Reconstruction
- Novel Quad Tendon Allograft ACL
- Meniscal Tissue Engineering
- Early Diagnosis of Hip Dysplasia

## 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 ft² 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