



# Comparative Orthopaedic Lab

## "Finding a joint solution"

<http://www.columc.com/>

### Current Projects

- Bioreactor for Disc Disease Modeling
- Sensory Function of the ACL
- BioCartilage versus Marrow Stimulation
- Rotator Cuff Allograft Transplantation
- Validation of ECHON Osteochondral Implants
- Improving ACL Reconstruction for RTS
- Meniscal Tissue Engineering
- Early Diagnosis of Hip Dysplasia
- Multi-Ligament Knee Reconstruction
- PRP for Tendon Healing
- Early Treatment for ACL Injuries
- Biomarkers for Osteoarthritis

### Last quarter's "top 5"

1. Dr. Stannard, Dr. Pfeiffer & Team receive \$1.1M Department of Defense grant
2. Mizzou Orthopaedic Team breaks ground on addition to Missouri Orthopaedic Institute
3. International Cartilage Repair Society Traveling Scientific Fellows visit the COL
4. Dr. Guess & Team have 9 papers accepted for American Society of Biomechanics Meeting
5. Dr. Jimi Cook receives the Gainor Excellence in Orthopaedic Resident Teaching Award

### 2015 COL Making a Difference Award Bob & Judi Reeves

In recognition of the dedication and effort shown in helping to advance research in The Comparative Orthopaedic Laboratory in order to improve the quality of life for humans and animals, we present **Bob and Judi Reeves** with the **Making a Difference Award**. This award recognizes their significant contributions to the COL. The support and encouragement they have provided have been critical to our development into a world leader in orthopaedic research. The Robert and Judi Reeves Endowment in Arthritis Diagnostics provides essential financial support &

tremendous inspiration for numerous aspects of our work, and their personal engagement has been a major key to our success. This award is intended to express our sincere appreciation for all that they have contributed as key COL team members.



### Groundbreaking Ceremony for addition to Missouri Orthopaedic Institute

University of Missouri Health Care began construction on a \$40 million expansion of the Missouri Orthopaedic Institute that will include The Center for Regenerative Orthopaedics and Joint Preservation, as well as a fourth floor that is entirely dedicated to orthopaedic research. This expansion is a great milestone and will increase our abilities to perform cutting edge research that will allow us to deliver comprehensive orthopaedic care to patients.



### Recent Pubs

1. Cook JL, et al. A canine hybrid double-bundle model for study of arthroscopic ACL reconstruction. J Orthop Res 2015
2. Brimmo OB, et al. Sonographic diagnosis of an acute lateral meniscal tear in a division 1 football player. J Knee Surg Rep 2015
3. Monibi FA, et al. Identification of synovial fluid biomarkers for knee OA and correlation with radiographic assessment. J Knee Surg 2015
4. Sherman SL, et al. In vivo toxicity of local anesthetics and corticosteroids on chondrocytes and synoviocytes. Cartilage 2015
5. Brimmo OB, et al. Development of a novel canine model for posttraumatic OA of the knee. J Knee Surg 2015
6. Bozynski CC, et al. Evaluation of partial transection versus synovial debridement of the ACL as novel canine models. J Knee Surg 2015
7. Roach BL, et al. Fabrication of tissue engineered osteochondral grafts for restoring the articular surface of joints. Methods 2015
8. Roller BL, et al. Characterization of meniscal pathology using molecular and proteomic analyses. J Knee Surg 2015