



*e-news*

# Comparative Orthopaedic Lab

*"Finding a joint solution"*

www.columc.missouri.edu

## Current Projects

- Osteoarthritis (OA) Models Comparison
- Early Diagnosis of Arthritis
- Meniscal Tissue Engineering
- Characterization of Meniscal Disease
- Novel Nutritional Treatments for OA
- Novel Rotator Cuff Repair
- Biologic Total Joint Replacement
- Regional Effects of Cartilage Damage
- Osteochondral Allograft Optimization
- ACL Pathology and Repair

### Last quarter's "top 5"

1. Dr. Stoker receives two grants from Iams
2. Data from Pfizer OA Models study collected
3. New MRI coil undergoes initial testing
4. NFL grant & 3 NIH grants submitted
5. Summer research students begin in COL

### *Summer Research Students*

**Mark Tait**

**Wes Kimberlin**

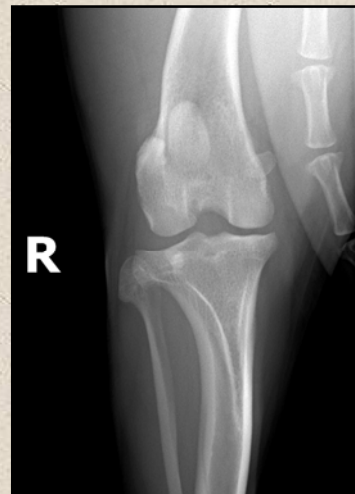
**Rachel Venable**

**Ashley Crawford**

#### **Meniscal Release Causes OA**

**A novel model of medial compartment OA**

Drs. J Luther, C Cook, and J Cook



### Recent Pubs

1. Cook JL, et al. A novel bioabsorbable conduit augments healing of avascular meniscal tears in a dog model. Am J Sports Med 2007
2. DePuy T, et al. Effects of intra-articular Botulinum Toxin Type A in an equine model of acute synovitis. Am J Physical Med & Rehab 2007
3. Cook JL. Future trends in joint replacement and tissue engineering in small animal orthopedics. Vet Surg 2007
4. Cook JL, et al. Development and initial validation of a co-culture model for the study of osteoarthritis. Curr Rev Rheumatol 2007
5. Cook JL. Outcomes based patient care in veterinary surgery: What is an outcome measure? Vet Surg 2007
6. Crow BD, et al. Evaluation of a novel biomaterial for intrasubstance muscle laceration repair. J Orthop Res 2007
7. Cook JL, et al. In vitro and in vivo comparison of five biomaterials used for orthopaedic soft tissue augmentation. Am J Vet Res 2007