



e-news

Comparative Orthopaedic Lab

"Finding a joint solution"

www.columc.missouri.edu

Current Projects

- OA Models Comparison
- Early Diagnosis of Arthritis
- Meniscal Tissue Engineering
- Characterization of Meniscal Disease
- Characterization of Osteochondrosis
- Novel Rotator Cuff Repair
- Biologic Total Joint Replacement
- Regional Effects of Cartilage Damage
- Mechanisms of HA therapy in OA
- ACL Pathology and Repair

Comparison of Models of Arthritis

Drs. J Cook, Stoker, Luther, and C Cook



Last quarter's "top 5"

1. Dr. Luther wins Bloomberg Award
2. COL starts \$300K Pfizer-sponsored study
3. Dr. Cook gives Phi Zeta keynote address
4. Biologic arthroplasty story goes global
5. COL welcomes Gary Hume to team

In the news

COL surgeons help the *Wild Animal Sanctuary* treat *Sulley*

Drs. Fox, Tomlinson, & Cook performed arthroscopic and corrective surgery to treat a severe angular limb deformity in a 400-lb Bengal Tiger who was abused in a photo-for-money scheme and then rescued by the Wild Animal Sanctuary. Photos by Howard Wilson



Recent Pubs

1. Cook JL, et al. Development and initial validation of a co-culture model for the study of osteoarthritis. *Curr Rev Rheumatol* 2007
2. Cook JL. Outcomes based patient care in veterinary surgery: What is an outcome measure? *Vet Surg* 2007
3. Crow BD, et al. Evaluation of a novel biomaterial for intrasubstance muscle laceration repair. *J Orthop Res* 2007
4. Cook JL, et al. In vitro and in vivo comparison of five biomaterials used for orthopaedic soft tissue augmentation. *Am J Vet Res* 2007
5. Fox DB, et al. Effects of dynamic compressive load on collagen-based scaffolds seeded with fibroblast-like synoviocytes. *Tissue Eng* 2006
6. Hughes MS, et al. Enhanced fracture and soft tissue healing by means of anabolic dietary supplementation. *J Bone Joint Surgery* 2006
7. Stoker AM, et al. Site-specific analysis of gene expression in early osteoarthritis using the Pond-Nuki model in dogs. *J Ortho Surg Res* 2006