



Fall Quarter 5:4;2011

e-news



Comparative Orthopaedic Lab

"Finding a joint solution"

www.columc.missouri.edu

Current Projects

- In Vivo Performance of OCAs
- Relationship of Vascular Disease with OA
- Intra-Articular Therapy for OA
- Tissue Engineered Meniscal Scaffolds
- Pedicle Screw Fixation in Osteoporosis
- Novel Strategies for Preventing PTOA
- In Vitro Models of Disc Degeneration
- Biomarkers for Osteoarthritis
- Multiscale Modeling of OA
- Biomarkers in Physical Therapy
- On-field Diagnosis of Meniscal Pathology
- Biologic Total Joint Arthroplasty

Last quarter's "top 5"

1. COL Biologic Joint Replacement research was featured in a *USA Today* article!
2. The COL team submitted 15 abstracts for the 2012 ORS meeting!
3. Mizzou's Spine Team research was accepted for podium presentation at the Cervical Spine Research Society Conference!
4. Dr. Kuroki published a landmark article on subchondral bone changes in OA in *Osteoarthritis & Cartilage*!
5. Mizzou Team Ortho submitted an NIH Program Grant to establish an OA Translational Research Center!



August 12, 2011

**Need a new hip?
Someday you may grow
your own**

By Dennis Thompson, HealthDay

<http://yourlife.usatoday.com/health/story/2011/08/Need-a-new-hip-Someday-you-may-grow-your-own/49950952/1>

Recent Pubs

1. Kuroki K, et al. Subchondral bone changes in three different canine models of osteoarthritis. *OC & Cartilage* 2011
2. Warnock JJ, Fox DB, et al. Evaluation of in vitro growth factor treatments on fibrochondrogenesis by synovial membrane cells. *AJVR* 2011
3. Franklin SF, Cook JL. What is the evidence? Total hip replacement vs femoral head and neck excision. *JAVMA* 2011
4. Fox DB, et al. Elbow pain in a young English Bulldog. *NAVC Clin Brief* 2011
5. Lee CH, Cook JL, et al. Regeneration of articular surface of a synovial joint by cell homing. *The Lancet* 2010
6. Kuroki K, et al. Expression of Toll-like receptors 2 and 4 in stifle joint synovial tissues of dogs with or without OA. *Am J Vet Res* 2010
7. Cook JL, et al. The OARSI histopathology initiative – Histopathological assessments of osteoarthritis in the dog. *OA & Cartilage* 2010
8. Breshears LA, et al. The effect of uniaxial cyclic tensile load on gene expression in canine CCL ligamentocytes. *Vet Surg* 2010
9. Breshears LA, et al. Detection of MMPs involved in cruciate ligament disease in dogs. *Vet Surg* 2010
10. Fox DB, et al. Effects of growth factors on synovial fibroblasts seeded on synthetic scaffolds for meniscal engineering. *Res Vet Sci*. 2010