



Winter Quarter 4:1;2010

e-news



Comparative Orthopaedic Lab

"Finding a joint solution"

www.columc.missouri.edu

Current Projects

- Bio-Implants for Rotator Cuff Repair
- Stem Cell Injections for OA
- Optimizing Allograft Tissue Preservation
- Biomarkers for Osteoarthritis
- Novel Osteotomy Technique for ALDs
- Pedicle Screw Fixation in Osteoporosis
- Multiscale Modeling of OA
- *In vitro* Model of Traumatic Arthritis
- Characterization of Meniscal Pathology
- TLR Pathways in OA
- Bioscaffolds for Osteochondral Grafts
- Biologic Total Joint Arthroplasty

Last quarter's "top 5"

1. The 3rd COL Arthritis Benefit brought in more than \$10,000 for our work!
2. Dr. Roller and team were awarded NFL Charities Grant for Meniscal Research!
3. Nicole Waters wins the MU Distinguished Master's Thesis Award!
4. COL has 12 abstracts accepted for the 2010 ORS meeting!
5. COL has 6 abstracts accepted for the 2010 VOS meeting including Bloomberg Award-winning abstract from Dr. Franklin!

The 3rd COL Arthritis Benefit featuring FLOYD LANDIS

Our third benefit for arthritis research, **25,000 Miles – The Road Beyond Osteoarthritis**, featuring world-class cyclist **Floyd Landis** as our keynote speaker was held on November 14, 2009 at the Orr Street Studios in downtown Columbia. The benefit was a wonderful celebration and successful fundraising event for the COL. The silent auction included a wide array of coveted items including an official Team OUCH Floyd Landis cycling jersey. An elegant dinner was followed by a short talk by Dr. Jimi Cook highlighting the work of the COL toward our goal of finding improved treatments for arthritis through comparative research. Then, Mr. Landis gave the keynote address describing his career in professional cycling, his devastating injury, and his amazing return to elite racing thanks to cutting-edge technology in orthopaedic surgery along with his hard work and determination. His talk and question-and-answer session were absolutely enthralling and tied in perfectly with the work of the COL and the purpose of the benefit. It was an incredible evening for everyone who attended!

The Major Sponsors for the event were:

Smith+Nephew Zimmer Arthrex Dana & Sonny Bal Orthopaedic Endowment



Recent Pubs

1. Bian L, et al. Effects of dexamethasone on the functional properties of cartilage explants during long-term culture. *AJSM* 2009
2. Cook JL, Cook CR. Evidence Based Medicine: Forelimb Lameness in Dogs. *JAVMA* 2009.
3. Ng KW, et al. Passaged adult chondrocytes can form engineered cartilage with functional mechanical properties. *Tiss Eng* 2009
4. Luther JK, et al. Meniscal release in cruciate intact stifles causes lameness and cartilage pathology. *Vet Surg* 2009.
5. Anz AG, et al. The effect of bupivacaine and morphine in a co-culture model of diarthrodial joints. *Arthroscopy Rel Res* 2009
6. Cook JL, Cook CR. Bilateral shoulder and elbow arthroscopy in dogs with forelimb lameness. *Vet Surg* 2009
7. Cook CR, et al. Diagnostic imaging of canine elbow dysplasia: A review. *Vet Surg* 2009
8. Fox DB, et al. *In vitro* model to assess mechanisms and efficacy of a conduit for treatment of avascular meniscal injuries. *Cell Dev Biol* 2008