



Summer Quarter 4:3;2010

e-news



Comparative Orthopaedic Lab

"Finding a joint solution"

www.columc.missouri.edu

Current Projects

- Intra-articular Therapy for OA
- Stem Cell Injections for OA
- Optimizing Allograft Tissue Preservation
- Biomarkers for Osteoarthritis
- Relationship of Vascular Disease with OA
- Pedicle Screw Fixation in Osteoporosis
- Clinical Evaluations of ACP
- Multiscale Modeling of OA
- *In vitro* Model of Traumatic Arthritis
- On-field Diagnosis of Meniscal Pathology
- Comparison of Suture Anchors
- Biologic Total Joint Arthroplasty

Last quarter's "top 5"

1. The COL-DOS Team submitted a \$7.5M grant proposal to the NIH!
2. Nicole Waters receives Outstanding Master's Thesis Award!
3. The Missouri Orthopaedic Institute had its grand opening!
4. Dr. Pfeiffer and team received a MoTip Award for study of Post-Traumatic OA!
5. The COL Team received new grants from Arthrex, Community Tissue Bank, & Synthes!

Tenth Annual Comparative Orthopaedics Day

Our 10th Annual Comparative Orthopaedics Day was a great success again this year. **Dr. Dror Paley** gave a fascinating keynote address entitled ***Principles of Joint Alignment and Deformity Correction***. The **Littlejohn Family Endowment** has allowed us to bring the most renowned leaders in orthopaedics in the world to this event and we are very appreciative of their support! The scientific presentations were outstanding as well and did a wonderful job representing the exceptional and collaborative work in orthopaedics we are doing here at Mizzou! We also made the presentation of the annual *COL Making a Difference Award* to **Linda Salmon**, our incredible COL Administrative Assistant, who does so much to keep the COL functioning well and the team happy.



Special thanks to Dr. Della Rocca for organizing the CO Day Dinner and to all of our sponsors for this great event!

Our Sponsors for the event were: **The Littlejohn Family Endowment** **Synthes**
Dana & Sonny Bal Orthopaedic Endowment **Pfizer** **Schwartz Biomedical**

Recent Pubs

1. Lee CH, Cook JL, et al. Regeneration of articular surface of a synovial joint by cell homing. *The Lancet* 2010
2. 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
3. Cook JL, et al. The OARSI histopathology initiative – Histopathological assessments of osteoarthritis in the dog. *OA & Cartilage* 2010
4. Cook JL, Cook CR. What is the evidence on lumbosacral instability. *JAVMA* 2010
5. Breshears LA, et al. The effect of uniaxial cyclic tensile load on gene expression in canine CCL ligamentocytes. *Vet Surg* 2010
6. Bian L, et al. Dynamic mechanical loading enhances functional properties of tissue engineered cartilage. *Tissue Eng* 2010
7. Arnoczky SP, Cook JL, et al. Translational models for studying meniscal repair and replacement. *Tissue Eng* 2010
8. Bal BS, et al. In vivo outcomes of tissue engineered osteochondral grafts. *J Biomed Mater Res* 2010
9. Breshears LA, et al. Detection and evaluation 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