



Spring Quarter 4:2;2010

e-news



Comparative Orthopaedic Lab

"Finding a joint solution"

www.columc.missouri.edu

Current Projects

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

Last quarter's "top 5"

1. COL has 18 presentations at the 2010 ORS/AAOS meetings!
2. COL has 8 presentations at the 2010 VOS meeting!
3. COL has 3 patent applications submitted!
4. Dr. Jayabalan receives a Phi Zeta Award and University of Missouri MUPA Travel Grant!
5. Dr. Luther becomes board-certified Diplomate of the ACVS!

The Tenth Annual Comparative Orthopaedics Day – April 23rd

Our 10th Annual Comparative Orthopaedics Day will feature **Dr. Dror Paley** who will present ***Principles of Joint Alignment and Deformity Correction*** as our keynote speaker. Dr. Paley is recognized as the most experienced limb lengthening surgeon in the world and has developed and introduced revolutionary methods for limb deformity corrections that are now the standard of care worldwide. We are honored to have him present here at the University of Missouri's Comparative Orthopaedics Day!

Dr. Paley's talk will be followed by presentations of original research in the field of orthopaedics from investigators in the COL and our collaborators. It will be another wonderful day of learning! The event is held in the Adams' Conference Center at the College of Veterinary Medicine beginning at 8:30 am on **Friday, April 23, 2010**.



Dr. Dror Paley

Registration is free through our website.

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

Recent Pubs

1. Fox DB, et al. Effects of growth factors on synovial fibroblasts seeded on synthetic scaffolds for meniscal engineering. Res Vet Sci. 2010
2. Janicek JC, et al. Multiple osteochondral autografts for treatment of a subchondral cystic lesion in the equine tarsus. Vet Surg 2010
3. Bian L, et al. Effects of dexamethasone on the functional properties of cartilage explants during long-term culture. AJSM 2010
4. Cook JL, Cook CR. Evidence Based Medicine: Forelimb Lameness in Dogs. JAVMA 2009.
5. Ng KW, et al. Passaged adult chondrocytes can form engineered cartilage with functional mechanical properties. Tiss Eng 2009
6. Luther JK, et al. Meniscal release in cruciate intact stifles causes lameness and cartilage pathology. Vet Surg 2009.
7. Anz AG, et al. The effect of bupivacaine and morphine in a co-culture model of diarthrodial joints. Arthroscopy Rel Res 2009
8. Cook JL, Cook CR. Bilateral shoulder and elbow arthroscopy in dogs with forelimb lameness. Vet Surg 2009
9. Cook CR, et al. Diagnostic imaging of canine elbow dysplasia: A review. Vet Surg 2009