



Spring Quarter 6:2;2012

*e-news*



# Comparative Orthopaedic Lab

**"Finding a joint solution"**

[www.columc.missouri.edu](http://www.columc.missouri.edu)

## Current Projects

- Stemless Shoulder Arthroplasty
- Fresh Meniscus-OCA Grafts
- Optimizing Allograft Tissue Preservation
- Biomarkers for Osteoarthritis
- Relationship of Vascular Disease with OA
- Pedicle Screw Fixation in Osteoporosis
- Femoral-Acetabular Impingement Model
- Models for Disc Degeneration
- In vitro* Model of Traumatic Arthritis
- On-field Diagnosis of Meniscal Pathology
- Distal Humerus Fixation Testing
- Biologic Total Joint Arthroplasty

## Last quarter's "top 5"

1. COL Team presented 13 papers at the Orthopaedic Research Society Annual Meeting
2. COL research on cartilage allograft preservation receives worldwide media exposure
3. Orthopaedics-BioEngineering receives Mizzou Advantage funding for new faculty position
4. Dr. Sam Franklin becomes a Diplomate in the American College of Veterinary Surgeons
5. Dr. Cook is guest editor with Dr. Jack Farr for *Cartilage Repair in the Knee* four-issue series in *The Journal of Knee Surgery*

# 12<sup>th</sup> Annual Comparative Orthopaedics Day

**Friday, April 27<sup>th</sup>, 2012 at The Missouri Orthopaedic Institute**

This year, we are honored to welcome **Dr. Andy Schmidt** to deliver the keynote addresses for the 12<sup>th</sup> Annual Comparative Orthopaedics Day. Presentations of original research in the field of orthopaedics will be included in the full-day program. Dr. Schmidt is a world-renowned orthopaedic traumatologist with an extensive research program focused on compartment syndrome and musculoskeletal infections. He is currently Professor of Orthopaedics at the University of Minnesota and the Hennepin County Medical Center in Minneapolis, MN, specializing in trauma care and adult reconstructive surgery. Dr. Schmidt is PI for two Department of Defense funded studies investigating compartment syndrome, which he will discuss in his presentation entitled, "**Compartment Syndrome – New Ideas about an Old Problem.**"



We are thrilled to have Dr. Schmidt as our 2012 Littlejohn Family Keynote Lecturer for the 12<sup>th</sup> Annual Comparative Orthopaedics Day event!

**Sponsored by The Littlejohn Family Endowment**

### Recent Pubs

1. Smith MJ, et al. Novel bone-tendon allograft for repair of chronic large rotator cuff tears using a canine model. *Arthroscopy* 2012
2. Franklin SP, et al. Relationship of the canine femoral head to the femoral neck: An anatomic study. *Vet Surg* 2012
3. Garner BC, et al. Using animal models in osteoarthritis biomarker research. *J Knee Surg* 2011
4. Fox DB, et al. Cell-based meniscal engineering: A case for synoviocytes. *Clin Orthop Rel Res* 2011
5. Jayabalan P, et al. Bioactive glass as a subchondral substrate for tissue-engineered osteochondral constructs. *Clin Orthop Rel Res* 2011
6. Hung CT, Cook JL. Clinical relevant strategies for treating cartilage and meniscal pathology. *Clin Orthop Rel Res* 2011
7. Kuroki K, et al. Subchondral bone changes in three different canine models of osteoarthritis. *OC & Cartilage* 2011
8. Warnock JJ, Fox DB, et al. Evaluation of in vitro growth factor treatments on fibrochondrogenesis by synovial membrane cells. *AJVR* 2011
9. Franklin SF, Cook JL. What is the evidence? Total hip replacement vs femoral head and neck excision. *JAVMA* 2011