



Summer Quarter 5:3;2011

*e-news*



# Comparative Orthopaedic Lab

**"Finding a joint solution"**

[www.columc.missouri.edu](http://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. Mary Cockrell was honored for 25 years of service to the University of Missouri!
2. Dr. Prakash Jayabalan earned his PhD in Pathobiology!
3. Katie O'Brien and Nicole Waters received the Annual COL Clinical & Research Awards!
4. Dr. Prakash Jayabalan won the Missouri Life Sciences Research Award!
5. The 11<sup>th</sup> Annual Comparative Orthopaedics Day was held at the MOI!

## Another Successful Comparative Orthopaedics Day

**Dr. James Ogilvie** (pictured with Drs. Bill Carson, Ted Choma, and Marc Asher) gave two outstanding keynote talks for the 11<sup>th</sup> Annual Comparative Orthopaedics Day, and the research presentations were exceptional. Everyone enjoyed the interactions and the learning, and the Missouri Orthopaedic Institute provided the perfect venue for this event. We sincerely appreciate the sponsorship and support provided **The Littlejohn Family Endowment** so that we can continue to bring in internationally recognized speakers and share our work with others!



We also presented the 2011 *COL Making a Difference Award* at CO Day to **Mrs. Kathryn Allen**. Mrs. Allen has provided strong support, encouragement, and inspiration to the COL since our inception, and with her husband Dr. Bill Allen, created the endowed professorship held by our Director, Dr. James Cook. Mrs. Allen has definitely made a huge difference in our development and our continued success towards "finding a joint solution!"



### Recent Pubs

1. Warnock JJ, Fox DB, et al. Evaluation of in vitro growth factor treatments on fibrochondrogenesis by synovial membrane cells. *AJVR* 2011
2. Franklin SF, Cook JL. What is the evidence? Total hip replacement vs femoral head and neck excision. *JAVMA* 2011
3. Fox DB, et al. Elbow pain in a young English Bulldog. *NAVJ Clin Brief* 2011
4. Lee CH, Cook JL, et al. Regeneration of articular surface of a synovial joint by cell homing. *The Lancet* 2010
5. 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
6. Cook JL, et al. The OARSI histopathology initiative – Histopathological assessments of osteoarthritis in the dog. *OA & Cartilage* 2010
7. Breshears LA, et al. The effect of uniaxial cyclic tensile load on gene expression in canine CCL ligamentocytes. *Vet Surg* 2010
8. Arnoczky SP, Cook JL, et al. Translational models for studying meniscal repair and replacement. *Tissue Eng* 2010
9. Bal BS, et al. In vivo outcomes of tissue engineered osteochondral grafts. *J Biomed Mater Res* 2010
10. Fox DB, et al. Effects of growth factors on synovial fibroblasts seeded on synthetic scaffolds for meniscal engineering. *Res Vet Sci*. 2010