



*e-news*

# Comparative Orthopaedic Lab

*"Finding a joint solution"*

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

## Current Projects

- Nanotechnology in Tissue Engineering
- Optimizing Allograft Tissue Preservation
- Novel Biomarkers for Osteoarthritis
- Limb Alignment Diagnosis & Treatment
- *In vitro* Model of Traumatic Arthritis
- Characterization of Meniscal Pathology
- Nutritional Management of OA
- Bioscaffolds for Osteochondral Grafts
- Biologic Total Joint Arthroplasty
- PPAR $\gamma$ -agonists in OA

## Last quarter's "top 5"

1. COL Team has 11 abstracts accepted for presentation at ORS in February!
2. COL Team will have 3 presentations at VOS in March!
3. Drs. Kuroki, Stoker, and Garner receive grant for Arthritis Biomarkers research!
4. Drs. Jayabalan and Bal receive grant for Osteochondral Bioscaffold research!
5. Dr. Jennifer Warnock completes her PhD in Pathobiology in the COL!

# Reminder

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

April 10<sup>th</sup>, 2009

Adams Conference Center, MU College of Veterinary Medicine

Our keynote speaker will be **Dr. Hollis Potter** from the Hospital for Special Surgery in NYC. Dr. Potter is one of the foremost authorities on musculoskeletal imaging in the world with particular expertise in cartilage and meniscal MRI. Please join us for another wonderful day of learning in comparative orthopaedics!

### Recent Pubs

1. Lima EG, et al. The effect of devitalized trabecular bone on the formation of osteochondral tissue-engineered constructs. *Biomaterials* 2009.
2. Cook JL, Cook CR. Bilateral shoulder and elbow arthroscopy in dogs with forelimb lameness. *Vet Surg* 2009
3. Cook CR, et al. Diagnostic imaging of canine elbow dysplasia: A review. *Vet Surg* 2009
4. 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
5. Venable RO, et al. Examination of synovial fluid hyaluronan as a potential biomarker for osteoarthritis in the stifle of dogs. *Am J Vet Res* 2008
6. Jayabalan P, Bal BS. Review of biomaterials in total knee arthroplasty. *Minerva Orthop Traumatol* 2008
7. Cook JL, et al. Autogenous osteochondral grafting for treatment of stifle osteochondrosis in dogs. *Vet Surg* 2008
8. Cook JL, et al. *In vitro* and *in vivo* comparison of five biomaterials used for orthopedic soft tissue augmentation. *Am J Vet Res* 2008
9. Bian L, et al. Mechanical and biochemical characterization of cartilage explants in serum-free culture. *J Biomech* 2008