

C-news



mparative Orthopaedic La

"Finding a joint solution"

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Current Projects

Novel Biomarkers for Osteoarthritis

Multiscale Modeling of Unicompartmental OA

Nanotechnology in Tissue Engineering

• In vitro Model of Traumatic Arthritis

Optimizing Allograft Tissue Preservation
Characterization of Meniscal Pathology

Limb Alignment Diagnosis & Treatment
Nutritional Management of OA

•PPARγ–agonists in OA

Bioscaffolds for Osteochondral Grafts

Pedicle Screw Fixation in Osteoporosis
Biologic Total Joint Arthroplasty

Last quarter's "top 5"

- 1. COL presents 12 abstracts at ORS, 4 at VOS, 6 at Phi Zeta, & 3 at Life Sciences!
- 2. COL Team wins 6 awards for presented research!
- 3. Dr. Fox and team receive grant for Nanotechnology in Tissue Engineering!
- 4. COL receives grant with Dr. Guess' team at UMKC for Multiscale OA Modeling!
- 5. COL receives NIH grant with Dr. Hung's team at Columbia University in NYC!

The 9th Annual Comparative **Orthopaedics Day**

We had record attendance for this wonderful event. Our keynote speaker, Dr. Hollis Potter from the Hospital for Special Surgery in NYC delivered an outstanding presentation of her amazing work in musculoskeletal imaging. We want to give very special thanks to the Littlejohn Family who established an endowment for CO Day that will support the lectureship and ensure that we can continue this great event in the future! Special thanks also to the Depts. of Orthopaedic Surgery and Veterinary Medicine & Surgery, as well as our sponsors - The Dana & Sonny Bal Orthopaedic Endowment, Schwartz Biomedical, Arthrex, and Smith+Nephew! And, congratulations to our 2009 COL Making a Difference Award winner - Mary Cockrell



Recent Pubs

- 1. Anz AG, et al. The effect of bupivacaine and morphine in a co-culture model of diarthrodial joints. Arthroscopy Rel Res 2009
- 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 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. Lima EG, et al. The effect of devitalized trabecular bone on the formation of osteochondral tissue-engineered constructs. Biomaterials 2008.
- 8. Lima EG, et al. Physiologic deformational loading does not counteract the catabolic effects of IL-1. J Biomech 2008